

**MORE
LIGHT
LESS
ENERGY
SMART
SAVING
LIGHTING
SOLUTIONS**



More Light

Less Energy

Smart Saving

Lighting

Solutions

Als adviserende leverancier van hoogwaardige, innovatieve en energie-efficiënte verlichting behoort Less Energy inmiddels tot leverancier van vele opdrachtgevers.

More light, less energy, smart saving lighting solutions

Het servicepakket van Less Energy bestaat naast levering van verlichtingsoplossingen voor o.a. kantoren, sportcentra, theaters, zorginstellingen, onderwijs en industrie ook uit het maken van rendementsberekeningen, projectadvisering, -uitvoering en -nazorg. Less Energy heeft inmiddels ook een naam opgebouwd met LED-zwembadverlichting en maatwerkoplossingen. Partijen kiezen voor Less Energy als partner vanwege de ervaring, technische kennis, product range en toegang tot de markt.

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NEW



Patio 68 adj

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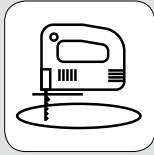


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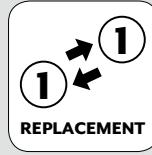
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**Made in Holland**

This product has been developed and produced in the Netherlands in accordance with European quality standards.

**TE connectivity**

The product is equipped with a Nector S connector system. Nector S is a registered trademark of TE connectivity.

**Unified Glare Rating**

The Unified Glare Rating (UGR): is an international index presented by the CIE (Commission Internationale de l'Eclairage) that is used to assess and limit the glare that is produced by a luminaire. A rating below 19 means a low glare factor.

**7 year warranty**

We can assure the highest possible quality, which translates into a low failure rate of 0.5%. This allows us to offer a 7-year warranty on all Less Energy products. Read our warranty conditions for more information.

Our sales department is always at your service for any questions or for support.

info@less-energy.nl

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www.less-energy.nl

Less Energy B.V.

Anthoetia Kuijlstraat 47

3066 GS Rotterdam

Nederland

LED specials

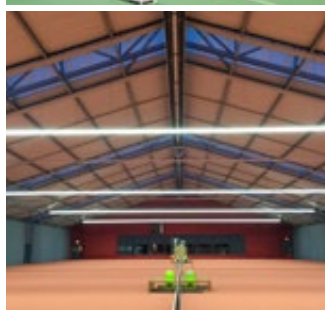


LED verlichting bedoeld voor een specifieke toepassing waarbij de omgevingsinvloeden vragen om hoge prestaties. De verlichting die onder onze special productgroep vallen zijn in basis niet ontwikkeld voor multifunctionele toepasbaarheid. Het ontwerp, materialen, coating, elektrotechnische componenten en afscherming zijn samenge-

steld om aan de hoge eisen te voldoen waarvoor de verlichting ontwikkeld is. De verlichting wordt optioneel uitgerust met lichtmanagement. Dat maakt het mogelijk om met geprogrammeerde protocollen te verlichten op basis van lichtintensiteit, volgens een geldende lichtniveau norm, of op basis van een tijd gestuurde cyclus.

Door installatie van LED special verlichting zijn onderhoud- en vervangingskosten voor jaren zeer beperkt.

LESS ENERGY LED SPECIALS

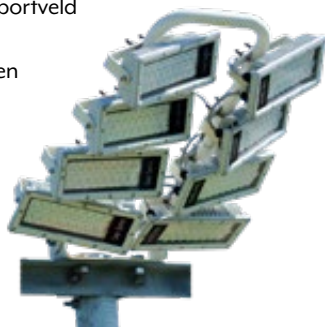


Specifieke toepassingen voor bijvoorbeeld: zwembaden, sporthallen, terreinen en sportvelden.



LED Sportveldverlichting

Verlichting wat ontwikkeld is voor het verlichten van sportvelden in verschillende klasse. De verlichting is een alternatief voor SON-T en metaal halide lampen. Er zijn diverse modellen geschikt voor; voetbal, hockey, tennis en atletiek. De verlichting kan direct aan en uit. Door toepassing van het lichtmanagement controle systeem is het mogelijk om draadloos de verlichting op lampniveau aan te sturen en te dimmen. Door deze flexibiliteit kan een sportveld op wedstrijdniveau, trainingsniveau of een veld voor de helft verlicht worden.



LED Terreinverlichting

Verlichting wat ontwikkeld is voor bevestiging op masten van 12 tot 45 meter hoogte. De verlichting is een alternatief voor SON-T en metaal halide lampen. Door toepassing van het lichtmanagement controle systeem is het mogelijk om draadloos de verlichting op lampniveau aan te sturen en te dimmen. Het is een optie om een terrein in zones in te delen en te configureren naar gewenste verlichtingsintensiteit. Zo kan er bijvoorbeeld op delen van een terrein in een gedimde stand voldoende licht gecreëerd worden voor cameraregistratie.



LED Zwembadverlichting

Verlichting wat voldoet aan de eisen voor klimaatinvloeden van een zwembadomgeving. De verlichting is resistent voor hoge temperaturen, vocht, chloor en zout invloeden. LED zwembadverlichting heeft voldoende capaciteit om een zwembad op recreatief, wedstrijd en olympisch niveau te verlichten. Naast basisverlichting zijn er diverse mogelijkheden voor RGBW kleur en sfeer lichteffecten.



LED Sporthalverlichting

Lijn verlichting wat geschikt is voor het uitlichten van sporthallen. Het beschikt over een goede balvastheid en zorgt voor een egale lichtspreading voor het uitoefen van sporten. Deze verlichting heeft voldoende capaciteit om een sporthal op zowel recreatief als wedstrijd niveau te verlichten. Door toepassing van het lichtmanagement controle systeem kunnen sporthallen op verschillende lichtniveaus voor diverse sporten gebruikt worden.



Rendements- berekeningen



RVO Activiteitenbesluit en energiebesparing

Bedrijven en instellingen zijn verplicht om energiebesparende maatregelen te nemen. Het gaat om gebouwen met een jaarlijks elektriciteitsverbruik van meer dan 50.000 kWh. De energiebesparing levert ten opzichte van de investering al snel geld op. In het activiteitenbesluit milieubeheer is de verplichting beschreven dat in dergelijke gebouwen alle maatregelen zijn genomen met een maximale terugverdientijd van 5 jaar. Energiezuinige ruimteverlichting en buitenverlichting zijn erkende maatregelen.

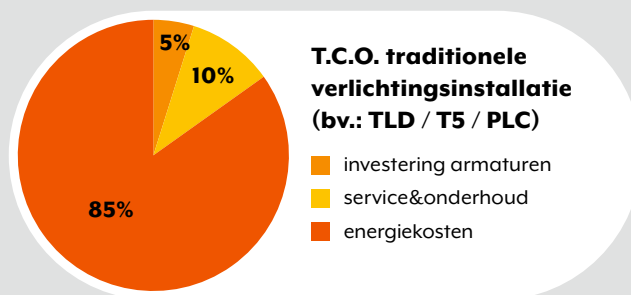
ROI (Return On Investment) TVT (Terugverdientijd)

Indien de technische staat van de huidige verlichtingsinstallatie nog goed is, kan het Retrofit toepassen van lichtbronvervangers of armatuurvervangers (voor bestaande lichtlijnen) in vele gevallen zeer interessant zijn. Het is belangrijk om een goede ROI berekening te maken met de juiste gegevens en parameters die overeenkomen met de praktijksituatie. Investeringskosten, besparing op stroom, onderhoud en vervangingskosten, aantal branduren en kWh tarief zijn de belangrijkste gegevens voor een basis ROI berekening. In veel gevallen is het reëel om de ROI berekening te baseren op een meerprijsinvestering voor de upgrade naar LED verlichting t.o.v. geplande traditionele verlichting. Bij het maken van een ROI berekening kunnen wij tevens rekening houden met eventuele subsidies vanuit de overheid.

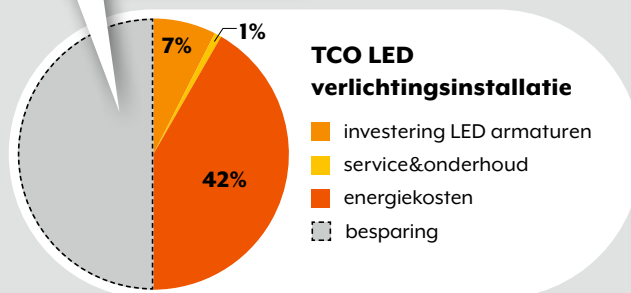
TCO (Total Cost Ownership)

Wat voor rendement gaat mijn nieuwe verlichtingsinstallatie opleveren over de totale exploitatieperiode t.o.v. mijn huidige situatie? Is het slim om aanwezigheidsdetectie of daglicht afhankelijk dimmen als premium

mee te nemen in mijn investering? Wellicht speelt de overweging om de nieuwe verlichting te gaan koppelen aan een lichtmanagementsysteem of gebouwbeheerssysteem? Het kan zijn dat deze toevoegingen niet de goedkoopste investeringen zijn in het offerte vergelijk, echter vaak wel onderaan de streep in totale exploitatiekosten.



50% BESPARING



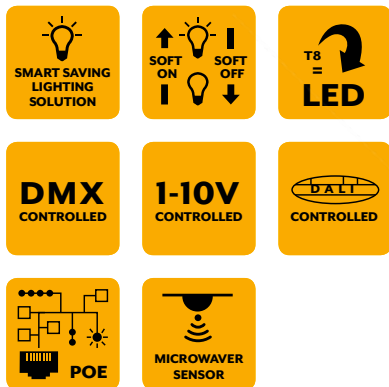
TERUGVERDIENTIJD 1,37

LED maatwerk



Verlichtings- configuratie

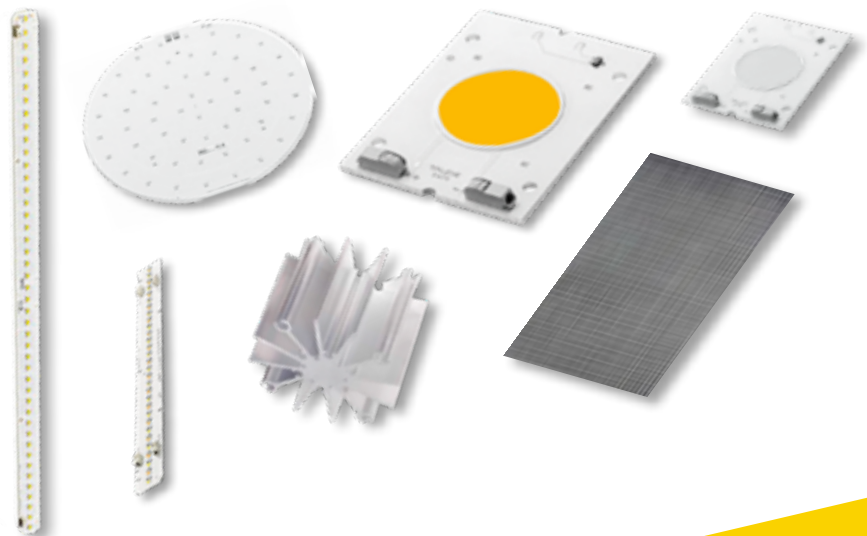
Less Energy maakt voor opdrachtgevers maatwerk verlichtingsconfiguraties passend in een bestaand verlichtingsarmatuur of eindproduct. Wij denken mee en adviseren met het integreren van verlichting in het ontwerp, de toepassing en het gebruikersgemak. Bij de productselectie houden wij rekening met de prestaties, omgeving en toepassing waarvoor de verlichting bedoeld is. In de engineeringfase nemen we licht, thermische en installatietechnische eigenschappen mee in onze configuratie. Onze eindproducten proberen we zoveel mogelijk prefab en stekbaar aan te leveren.



Onze Maatwerkproducten zijn heel breed en divers.

Voorbeelden

- Verlichtingsmodules ontwikkeld om in bestaande armaturen te plaatsen met karakteristieke eigenschappen die door een architect zijn meegenomen in de vormgeving van een pand.
- Verlichting wat geïntegreerd wordt in eindproducten van opdrachtgevers.
- Verlichting voor backlighting, displays, interieurbouw en retail. eventuele subsidies vanuit de overheid.



Op maat ontwikkelde
verlichting voor bijvoorbeeld:
Interieurbouw en retail.

7 Year warranty



LESS ENERGY: Constant Improvement of Product Quality

We focus on delivering quality products and reaching the highest level of customer satisfaction. Quality assurance and control is a top priority in our production process. We are proud to report a defect/return percentage of less than 0,2% in 2015, which underscores the quality of both our products and our manufacturing operation in the Netherlands.

Consistent LED Colour in each Product

SDCM is an acronym for Standard Deviation Colour Matching. SDCM has the same meaning as a "MacAdam ellipse". A 1-step MacAdam ellipse defines a zone in the CIE 1931 2 deg (xy) colour space within which the human eye cannot see colour difference. Most LEDs are binned at the 4-7-step level, in other words you certainly can see colour differences between the LEDs. Except for the Luna COB reflector versions (3 step Mac Adam) all of the Less Energy products utilize multiple LEDs which are individually mixed at the assembly process in such a way that you won't notice any colour variations between our products.

First Class Components

Only by collaborating with market leading suppliers for our components, it's possible to achieve a low defect percentage. Less Energy key partners are TCI, Cree, Seoul Semiconductors, Nichia, Lumileds, TE Electronics, Wieland and Bergh Hybrid Circuit.

Optimized Lumen Maintenance

One of the benefits of the LED is its long lifetime. Because they have no movable parts or filaments that may break, LEDs can have long lifetime. We normally define the lifetime of a LED as the time expected for it to drop to 70 % of its initial Light Output. This measure is called L70. A typical L70 lifetime is 50.000 hrs, depending on the inside temperature of the diode itself. At high temperatures, the blue chip and phosphor layer degenerates and the LED will eventually lose light. Less Energy Luminaires are designed and engineered to provide the optimum lumen maintenance and color rendering over their entire lifespan.

European quality

Quality Components

Our quality components come from various parts of the world but always from our own jigs and moulds. We maintain sufficient inventory levels of components and half-products to respond rapidly to the anticipated demands. Less Energy products can be ordered in flexible quantities and lead times are short.

Optimized Efficiency

Our luminaires are designed to provide a consistent light output and light colour for many years to come. Less Energy products are built to last. Moreover, with continuous efforts in improving the efficiency of our products, we strive to deliver a meaningful contribution to a better environment.

Quality Assurance

We are committed to providing you with the highest standard of quality. Our products are assembled under the supervision of experienced staff in a professional environment. Multiple visual checks and half-hour operation tests ensure the consistent quality level our partners rely on.



LESS ENERGY:

Made in Holland, with a significant portion of our time and resources dedicated to quality assurance and quality control.

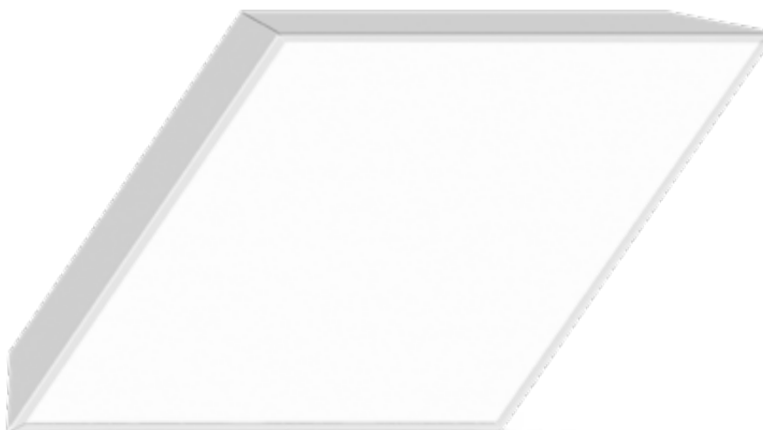
TECHNOLOGIE - NEOS LED PANEL



Neos LED panel

Energiebesparend alternatief voor TL-verlichting

Less Energy-panels kunnen niet zomaar vergeleken worden met standaard LED-panels. Het betreft een moderne collectie waarvan de artikelen lang meegaan en significant energiebesparend zijn ten opzichte van TL-verlichting. Het zachte homogeen gedistribueerde licht voorziet in optimaal comfort qua zicht en een perfecte kleurweergave (CRI>80). De panels zijn verkrijgbaar in de formaten 595 x 595 mm en 1195 x 295mm (standaard paneelformaten).



Binnenste diffuser

De eerste diffuser binnen het LED-paneel, zorgt voor een gelijke en egale lichtspreading. Zelfs wanneer u het paneel instelt op een lagere lichtopbrengst of wanneer u het paneel dimt, zal het licht zich egaal verspreiden.

Led-positionering

De LED-panels van Less Energy zijn ontworpen als een 'back lighting' oplossing: meerdere LED-bordjes zijn symmetrisch gepositioneerd over de gehele oppervlakte van het paneel. Hierdoor wordt de hitte optimaal afgeleid, wat ook een positief effect heeft op de efficiëntie. Met een 'efficacy rate' van meer dan 160 Lm/W zijn wij marktleider. En nog belangrijker: het verhoogt de levensduur en betrouwbaarheid van de panels.

Buitenste diffuser

De tweede diffuser is bedoeld om verblinding te reduceren. Dit is ideaal voor in kantoorruimten.

Het piramidemodel van de diffuser is speciaal ontworpen om ervoor te zorgen dat het paneel een zo laag mogelijke UGR-waarde heeft.

UGR
<19

Hoogwaardig armatuur

De metalen armatuurconstructie wordt vol-automatisch door Europese fabrieken geproduceerd. Dit zorgt ervoor dat onze behuizing een zeer lage materiaaltolerantie heeft: er zitten hierdoor geen afwijkingen in onze constructies. Onze armaturen worden afgewerkt met epoxy poedercoating van Dupont, dat ervoor zorgt dat zelfs na langdurig gebruik er geen verkleuring zichtbaar is.

Hitte afvoer

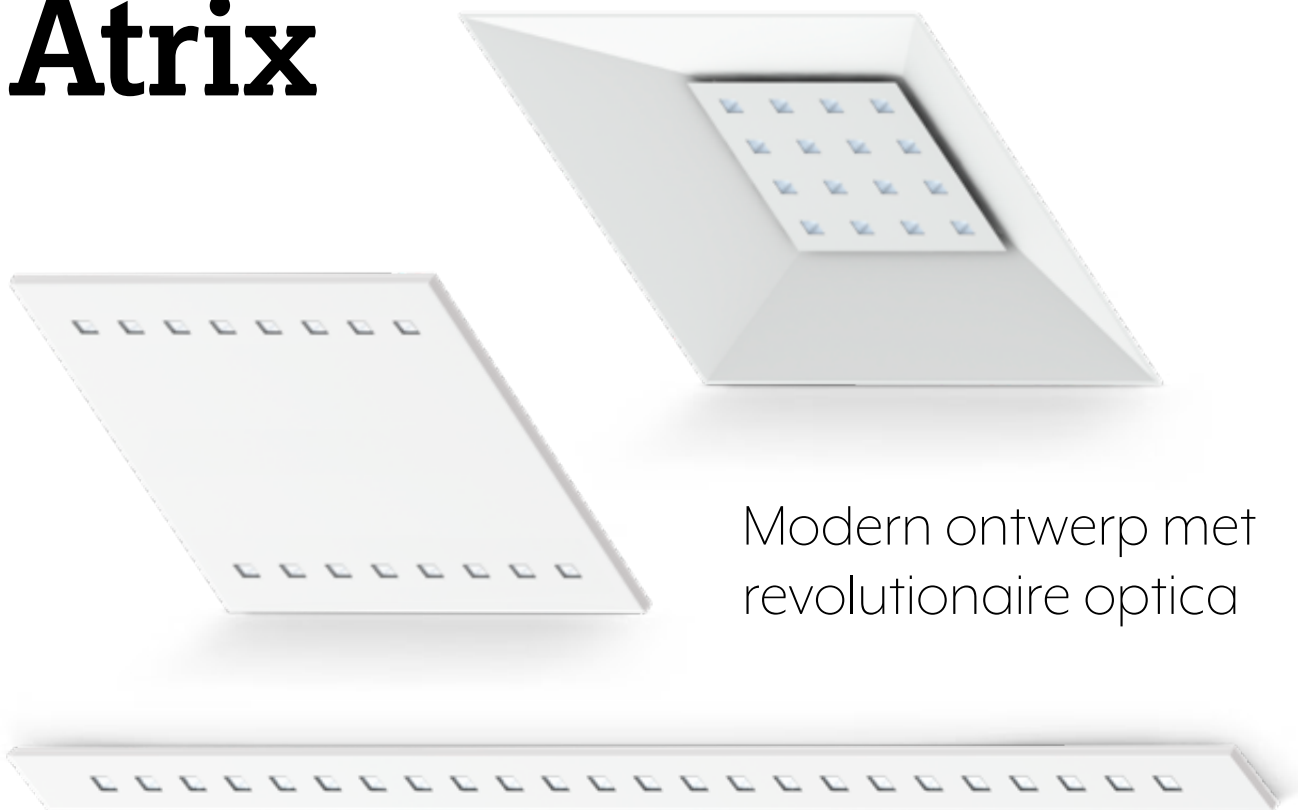
U wilt dat er ook over een aantal jaren nog steeds voldoende licht uit het paneel komt. Doordat alle LEDs verspreid staan over de achterkant van de behuizing worden ze optimaal gekoeld en merkt u zelfs na 70.000 branduren nog geen verschil in lichtopbrengst. Wie dus kiest voor een probleemloze installatie voor vele jaren kiest voor een "back lighting" oplossing.



Kenmerken en voordelen

- LEDs zijn optimaal gepositioneerd in het armatuur waardoor we een langere levensduur kunnen garanderen
- De diffusers zijn dusdanig ontworpen dat zij zorgen voor een UGR-waarde van onder de 19 (max. 3950 Lm)
- Gegarandeerde kleurconsistentie door 3-step MacAdam
- Uitstekende dimkwaliteiten tot 10%
- Spatwaterdicht (IP44)

Atrix



Modern ontwerp met
revolutionaire optica

Reflectortechnologie Bartenbach

Het unieke van de Atrix is de toegepaste reflectortechniek. Less Energy heeft deze in samenwerking met het gerenommeerde bedrijf Bartenbach ontwikkeld, de innovatieve ontwikkelaar van lichtconcepten. Dit Oostenrijkse bedrijf is dé specialist op het gebied van reflectortechnologie, waardoor Less Energy de laatste technieken op het gebied van optische systemen heeft toe kunnen passen in de Atrix.

Lage UGR en weinig strooilicht

Door toepassing van Bartenbachs speciale 'dark light'-techniek heeft de Atrix een extreem lage UGR-waarde. Bij de meest voorkomende Lumen-output van 3.400 is de UGR-waarde <16, terwijl de gangbare maximale norm voor kantooromgevingen <19 is. Doordat je nauwelijks direct in het licht kunt kijken is dit armatuur uitermate geschikt voor kantoor toepassingen. Het is bewezen dat een lage UGR-waarde de foutenlast terugdringt.

Extreem zuinig

De efficiency van het armatuur is zeer hoog. De speciale structuur van de microfacetten in de reflector zorgt voor een gradenbundel van 95° (FWTM), waardoor er niet te veel strooilicht is. Met dit armatuur wordt het licht daar naartoe gericht waar je het wilt hebben, de werkplek. En dus niet hoog op de muren. Hierdoor is de norm van 500 lux op de werkplek in een kamer van 5x5 meter met slechts 4x20W te bereiken.

Kenmerken en voordelen

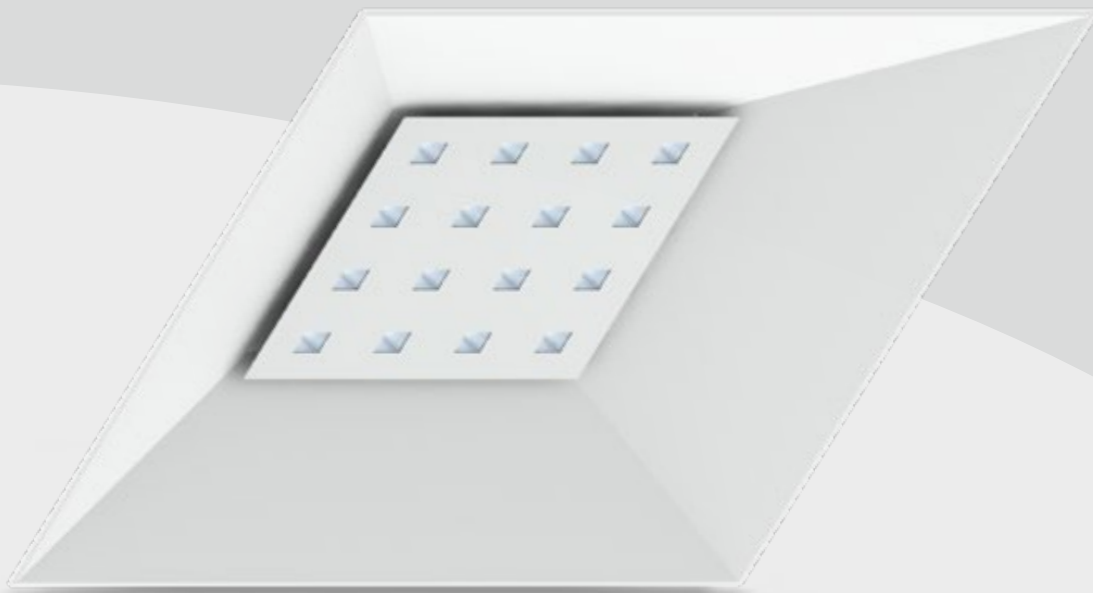
- Toepassing van Bartenbachs speciale 'dark light'-techniek met extreem lage UGR-waarde. Bij de meest voorkomende Lumen-output van 3.400 is de UGR-waarde <16
- Uitermate geschikt voor kantoor toepassingen
- Verschillende stralingshoeken beschikbaar
- De efficiency van het armatuur is extreem hoog.



Varens kundars förretning ska K
valde, och ibis den går i stå.
Pro Mobilier
- hög kvalitet
- ett stort
- många tillgångar
Mer ProCenter

Atrix

ATRIX - RECESSED FOR MODULAR CEILINGS

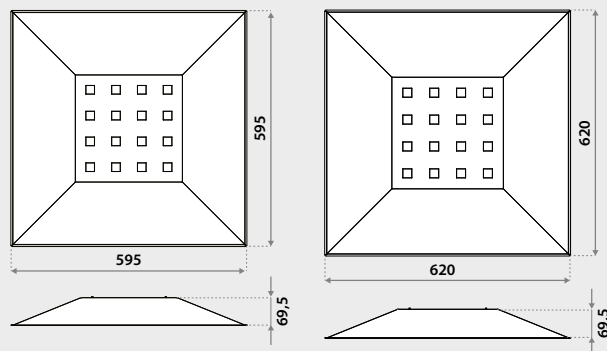


595x595 / 620x620

COLOURS

Matt white
RAL 9016

DIMENSIONS



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
<i>Special request</i>	500	26,6	3200	3400	120	128
<i>Special request</i>	550	29,3	3500	3750	119	128
Standard	700	37,3	4100	4350	110	117
<i>Special request</i>	900	47,5	5000	5300	105	112
Standard	1050	56,0	5350	5650	96	101

SPECIFICATIONS

Dimensions	595x595 / 620x620
Colour	Matt white RAL 9016
Beam angle (FWHM)	Standard 85° (100° FWTM) On request 75° (90° FWTM)
UGR (4H8H 70/50/20)	<19
Fixture material	Housing: Metal Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Ask our sales department about the possibilities for:

- Tunable white 2700-6500K.

Plug & Play Solutions prefab see page 188

Emergency light option see page 186



ITEM SPECIFICATIONS

Description	Item code		Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
	595x595	620x620								
Atrix SLM 4100 Lm 3000K No dim	100609656	100609222	Incl. PSU	220-240V	37,3	110	83	16.8	0.98	II
Atrix SLM 4100 Lm 3000K 1-10V & Push	100609652	100609218	Incl. PSU	220-240V	37,3	110	83	16.8	0.98	II
Atrix SLM 4100 Lm 3000K Dali	100609654	100609220	Incl. PSU	220-240V	37,3	110	83	16.8	0.98	II
Atrix SLM 5350 Lm 3000K No dim	100609662	100609228	Incl. PSU	220-240V	56,0	96	83	17.8	0.95	II
Atrix SLM 5350 Lm 3000K 1-10V & Push	100609658	100609224	Incl. PSU	220-240V	56,0	96	83	17.8	0.95	II
Atrix SLM 5350 Lm 3000K Dali	100609660	100609226	Incl. PSU	220-240V	56,0	96	83	17.8	0.95	II
Atrix SLM 4350 Lm 4000K No dim	100609657	100609223	Incl. PSU	220-240V	37,3	117	83	17.0	0.98	II
Atrix SLM 4350 Lm 4000K 1-10V & Push	100609653	100609219	Incl. PSU	220-240V	37,3	117	83	17.0	0.98	II
Atrix SLM 4350 Lm 4000K Dali	100609655	100609221	Incl. PSU	220-240V	37,3	117	83	17.0	0.98	II
Atrix SLM 5650 Lm 4000K No dim	100609663	100609229	Incl. PSU	220-240V	56,0	101	83	17.9	0.95	II
Atrix SLM 5650 Lm 4000K 1-10V & Push	100609659	100609225	Incl. PSU	220-240V	56,0	101	83	17.9	0.95	II
Atrix SLM 5650 Lm 4000K Dali	100609661	100609227	Incl. PSU	220-240V	56,0	101	83	17.9	0.95	II

All values are measured at 230V (+/- 7%).



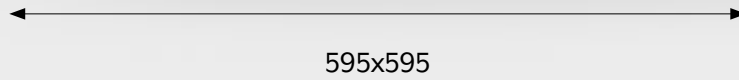




Recessed for modular ceilings

-
Mercedes showroom Ejner Hessel Vejne
Atrix

Neos LEDpanel 595x595



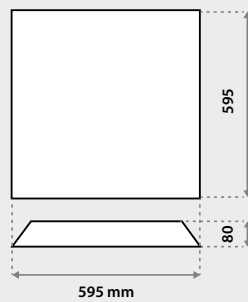
595x595

NEOS LEDPANEL 595X595 - RECESSED FOR MODULAR CEILINGS

COLOURS

Matt white
RAL 9016

DIMENSIONS



595 mm

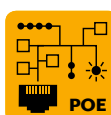
SPECIFICATIONS

Colour white	Matt white RAL 9016
Beam angle (FWHM)	100°
Input voltage (DC)	Max. 1050 mAmp (max. 48V)
UGR (4H8H 70/50/20)	<19
Fixture material	Metal / PS
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Ask our sales department about the possibilities for:
- Tunable white 2700-6500K.
Plug & Play Solutions prefab see page 188
Emergency light option see page 186



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
Special request	350	17,0	2250	2400	132	141
Standard	500	24,8	3250	3450	131	139
Special request	550	27,5	3550	3750	129	136
Special request	700	35,9	4450	4700	124	131
Special request	900	47,1	5650	5950	120	126
Standard	1050	56,1	6500	6850	116	122

ITEM SPECIFICATIONS

Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Neos LEDpanel SLM 595X595 3250 Lm 3000K CRI80 No dim	100609630	Incl. PSU	220-240V	17,0-56,1	132-116	83	18.0	0.97	I
Neos LEDpanel SLM 595X595 3250 Lm 3000K CRI80 1-10V & Push	100609626	Incl. PSU	220-240V	17,0-56,1	132-116	83	18.0	0.97	II
Neos LEDpanel SLM 595X595 3250 Lm 3000K CRI80 Dali	100609628	Incl. PSU	220-240V	17,0-56,1	132-116	83	18.0	0.97	II
Neos LEDpanel SLM 595X595 6500 Lm 3000K CRI80 No dim	100609636	Incl. PSU	220-240V	17,0-56,1	132-116	83	20.4	0.99	II
Neos LEDpanel SLM 595X595 6500 Lm 3000K CRI80 1-10V & Push	100609632	Incl. PSU	220-240V	17,0-56,1	132-116	83	20.4	0.99	II
Neos LEDpanel SLM 595X595 6500 Lm 3000K CRI80 Dali	100609634	Incl. PSU	220-240V	17,0-56,1	132-116	83	20.4	0.99	II
Neos LEDpanel SLM 595X595 3450 Lm 4000K CRI80 No dim	100609631	Incl. PSU	220-240V	17,0-56,1	141-122	83	18.2	0.97	I
Neos LEDpanel SLM 595X595 3450 Lm 4000K CRI80 1-10V & Push	100609627	Incl. PSU	220-240V	17,0-56,1	141-122	83	18.2	0.97	II
Neos LEDpanel SLM 595X595 3450 Lm 4000K CRI80 Dali	100609629	Incl. PSU	220-240V	17,0-56,1	141-122	83	18.2	0.97	II
Neos LEDpanel SLM 595X595 6850 Lm 4000K CRI80 No dim	100609637	Incl. PSU	220-240V	17,0-56,1	141-122	83	20.6	0.99	II
Neos LEDpanel SLM 595X595 6850 Lm 4000K CRI80 1-10V & Push	100609633	Incl. PSU	220-240V	17,0-56,1	141-122	83	20.6	0.99	II
Neos LEDpanel SLM 595X595 6850 Lm 4000K CRI80 Dali	100609635	Incl. PSU	220-240V	17,0-56,1	141-122	83	20.6	0.99	II

All values are measured at 230V (+/- 7%).



Neos LEDpanel 1195x295

NEOS LEDPANEL 1195X295 - RECESSED FOR MODULAR CEILINGS

COLOURS

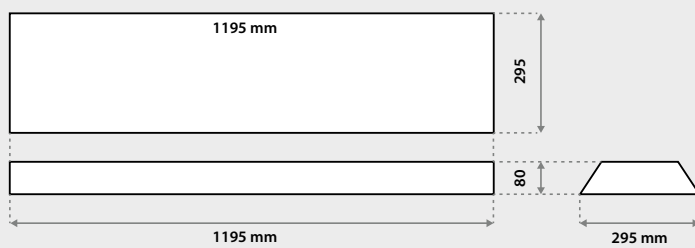


Matt white
RAL 9016



1195x295

DIMENSIONS



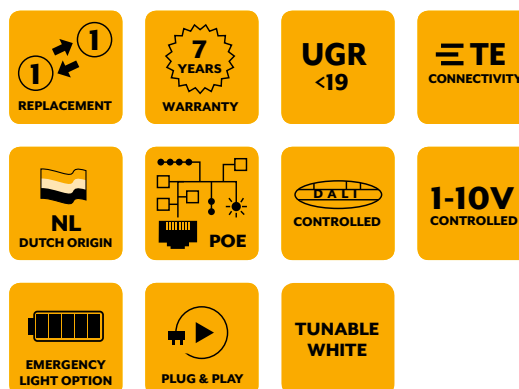
SPECIFICATIONS

Colour white	Matt white RAL 9016
Beam angle (FWHM)	100°
Input voltage (DC)	Max. 1050 mAmp (max. 48V)
UGR (4H8H 70/50/20)	<19
Fixture material	Metal / PS
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012

IP20
IP44

Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Ask our sales department about the possibilities for:
- Tunable white 2700-6500K.

Plug & Play Solutions prefab see page 188

Emergency light option see page 186



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
Special request	350	17,0	2350	2550	138	150
Standard	500	24,8	3400	3600	137	145
Special request	550	27,5	3700	3950	135	144
Special request	700	35,9	4700	4950	131	138
Special request	900	47,1	6000	6300	127	134
Standard	1050	56,1	6900	7250	123	129

ITEM SPECIFICATIONS

Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Neos LEDpanel SLM 1195x295 3400 Lm 3000K CRI80 No dim	100609644	Incl. PSU	220-240V	17,0-56,1	138-123	83	18.3	0.97	II
Neos LEDpanel SLM 1195x295 3400 Lm 3000K CRI80 1-10V & Push	100609638	Incl. PSU	220-240V	17,0-56,1	138-123	83	18.3	0.97	II
Neos LEDpanel SLM 1195x295 3400 Lm 3000K CRI80 Dali	100609641	Incl. PSU	220-240V	17,0-56,1	138-123	83	18.3	0.97	II
Neos LEDpanel SLM 1195x295 6900 Lm 3000K CRI80 No dim	100609650	Incl. PSU	220-240V	17,0-56,1	138-123	83	20.8	0.99	II
Neos LEDpanel SLM 1195x295 6900 Lm 3000K CRI80 1-10V & Push	100609646	Incl. PSU	220-240V	17,0-56,1	138-123	83	20.8	0.99	II
Neos LEDpanel SLM 1195x295 6900 Lm 3000K CRI80 Dali	100609648	Incl. PSU	220-240V	17,0-56,1	138-123	83	20.8	0.99	II
Neos LEDpanel SLM 1195x295 3600 Lm 4000K CRI80 No dim	100609645	Incl. PSU	220-240V	17,0-56,1	150-129	83	18.5	0.97	II
Neos LEDpanel SLM 1195x295 3600 Lm 4000K CRI80 1-10V & Push	100609640	Incl. PSU	220-240V	17,0-56,1	150-129	83	18.5	0.97	II
Neos LEDpanel SLM 1195x295 3600 Lm 4000K CRI80 Dali	100609642	Incl. PSU	220-240V	17,0-56,1	150-129	83	18.5	0.97	II
Neos LEDpanel SLM 1195x295 7250 Lm 4000K CRI80 No dim	100609651	Incl. PSU	220-240V	17,0-56,1	150-129	83	20.9	0.99	II
Neos LEDpanel SLM 1195x295 7250 Lm 4000K CRI80 1-10V & Push	100609647	Incl. PSU	220-240V	17,0-56,1	150-129	83	20.9	0.99	II
Neos LEDpanel SLM 1195x295 7250 Lm 4000K CRI80 Dali	100609649	Incl. PSU	220-240V	17,0-56,1	150-129	83	20.9	0.99	II

All values are measured at 230V (+/- 7%).



Atrix FL 595x595 / 620x620

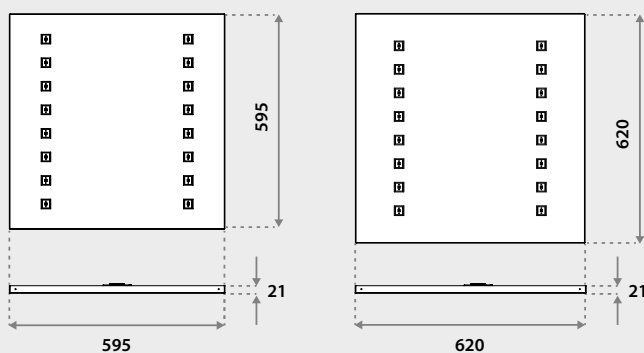
NEW



COLOURS

Matt white
RAL 9016

DIMENSIONS



ON REQUEST



For other versions such as air sleeves or other dimensions please ask our sales department.

SPECIFICATIONS

Dimensions	595x595 / 620x620
Colour	Matt white RAL 9016
Beam angle (FWHM)	Standard 85° (100° FWTM) On request 75° (95° FWTM)
UGR (4H8H 70/50/20)	<19
Fixture material	Housing: Steel Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012

IP20

REPLACEMENT

7 YEARS WARRANTY

UGR
<19

TE CONNECTIVITY

NL DUTCH ORIGIN

POE

DALI CONTROLLED

1-10V
CONTROLLED

EMERGENCY LIGHT OPTION

PLUG & PLAY

Plug & Play Solutions prefab see page 188

Emergency light option see page 186

Ask our sales department about the possibilities for:

- Other dimensions



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
Special request	500	26,6	3200	3400	120	128
Special request	550	29,3	3500	3750	119	128
Standard	700	37,3	4100	4350	110	117
Special request	900	47,5	5000	5300	105	112
Standard	1050	56,0	5350	5650	96	101

ITEM SPECIFICATIONS

Description	Item code		Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
	595x595	620x620								
Atrix FL 4100 Lm 3000K No dim	100609690	100609232	Incl. PSU	220-240V	37,3	110	83	15,7	0,98	II
Atrix FL 4100 Lm 3000K 1-10V & Push	100609694	100609236	Incl. PSU	220-240V	37,3	110	83	15,7	0,95	II
Atrix FL 4100 Lm 3000K Dali	100609698	100609240	Incl. PSU	220-240V	37,3	110	83	15,7	0,95	II
Atrix FL 5350 Lm 3000K No dim	100609702	100609244	Incl. PSU	220-240V	56,0	96	83	16,6	0,95	II
Atrix FL 5350 Lm 3000K 1-10V & Push	100609706	100609248	Incl. PSU	220-240V	56,0	96	83	16,6	0,95	II
Atrix FL 5350 Lm 3000K Dali	100609710	100609252	Incl. PSU	220-240V	56,0	96	83	16,6	0,95	II
Atrix FL 4350 Lm 4000K No dim	100609691	100609233	Incl. PSU	220-240V	37,3	117	83	15,9	0,98	II
Atrix FL 4350 Lm 4000K 1-10V & Push	100609695	100609237	Incl. PSU	220-240V	37,3	117	83	15,9	0,95	II
Atrix FL 4350 Lm 4000K Dali	100609699	100609241	Incl. PSU	220-240V	37,3	117	83	15,9	0,95	II
Atrix FL 5650 Lm 4000K No dim	100609703	100609245	Incl. PSU	220-240V	56,0	101	83	16,8	0,95	II
Atrix FL 5650 Lm 4000K 1-10V & Push	100609707	100609249	Incl. PSU	220-240V	56,0	101	83	16,8	0,95	II
Atrix FL 5650 Lm 4000K Dali	100609711	100609253	Incl. PSU	220-240V	56,0	101	83	16,8	0,95	II

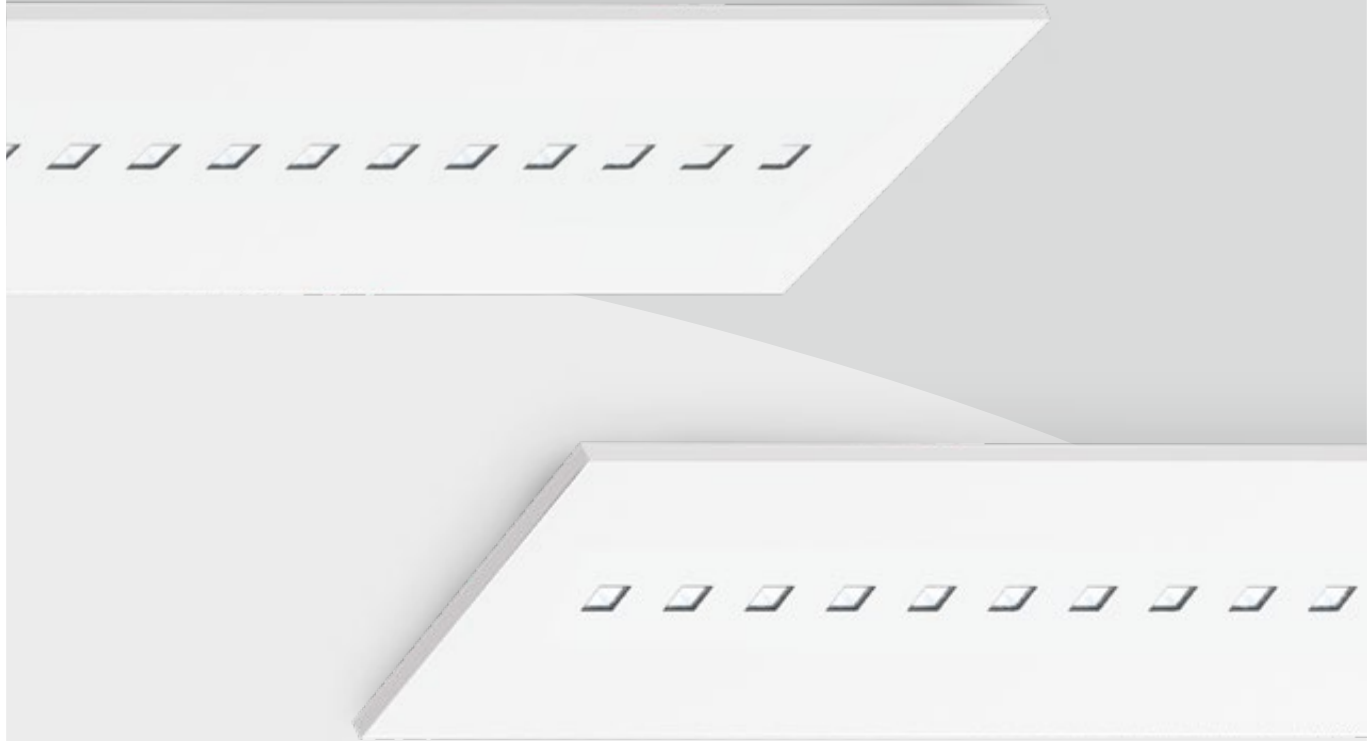
All values are measured at 230V (+/- 7%).



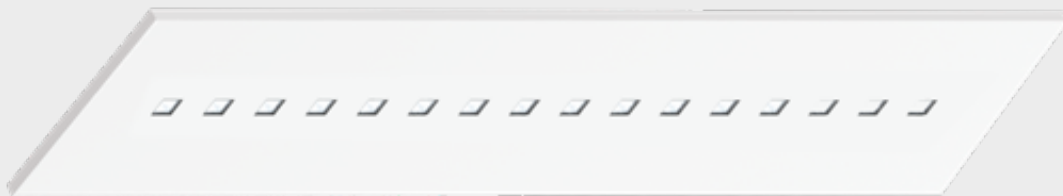
Atrix FL 1195x295

NEW

ATRIX FL 1195X295 - RECESSED FOR MODULAR CEILINGS



COLOURS

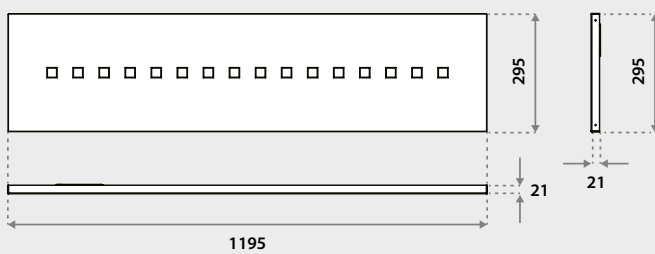


Matt white
RAL 9016



1195x295

DIMENSIONS



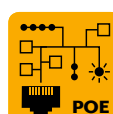
SPECIFICATIONS

Colour	Matt white RAL 9016
Beam angle (FWHM)	Standard 85° (100° FWTM) On request 75° (95° FWTM)
UGR (4H8H 70/50/20)	<19
Fixture material	Housing: Steel Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Plug & Play Solutions prefab see page 188

Emergency light option see page 186

Ask our sales department about the possibilities for:

- Other dimensions



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
Special request	500	26,6	3200	3400	120	128
Special request	550	29,3	3500	3750	119	128
Standard	700	37,3	4100	4350	110	117
Special request	900	47,5	5000	5300	105	112
Standard	1050	56,0	5350	5650	96	101

ITEM SPECIFICATIONS

Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Atrix FL 1195x295 4100 Lm 3000K No dim	100609759	Incl. PSU	220-240V	37,3	110	83	17,8	0,98	II
Atrix FL 1195x295 4100 Lm 3000K 1-10V & Push	100609763	Incl. PSU	220-240V	37,3	110	83	17,8	0,95	II
Atrix FL 1195x295 4100 Lm 3000K Dali	100609767	Incl. PSU	220-240V	37,3	110	83	17,8	0,95	II
Atrix FL 1195x295 5350 Lm 3000K No dim	100609771	Incl. PSU	220-240V	56,0	96	83	18,7	0,95	II
Atrix FL 1195x295 5350 Lm 3000K 1-10V & Push	100609775	Incl. PSU	220-240V	56,0	96	83	18,7	0,95	II
Atrix FL 1195x295 5350 Lm 3000K Dali	100609779	Incl. PSU	220-240V	56,0	96	83	18,7	0,95	II
Atrix FL 1195x295 4350 Lm 4000K No dim	100609760	Incl. PSU	220-240V	37,3	117	83	18,0	0,98	II
Atrix FL 1195x295 4350 Lm 4000K 1-10V & Push	100609764	Incl. PSU	220-240V	37,3	117	83	18,0	0,95	II
Atrix FL 1195x295 4350 Lm 4000K Dali	100609768	Incl. PSU	220-240V	37,3	117	83	18,0	0,95	II
Atrix FL 1195x295 5650 Lm 4000K No dim	100609772	Incl. PSU	220-240V	56,0	101	83	18,9	0,95	II
Atrix FL 1195x295 5650 Lm 4000K 1-10V & Push	100609776	Incl. PSU	220-240V	56,0	101	83	18,9	0,95	II
Atrix FL 1195x295 5650 Lm 4000K Dali	100609780	Incl. PSU	220-240V	56,0	101	83	18,9	0,95	II

All values are measured at 230V (+/- 7%).



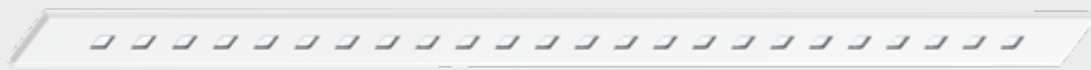
Atrix FL 1720x100

NEW

ATRIX FL 1720X100 - RECESSED FOR MODULAR CEILING



COLOURS

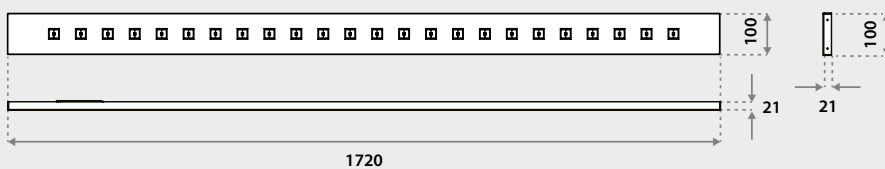


Matt white
RAL 9016



1720x100

DIMENSIONS



SPECIFICATIONS

Colour	Matt white RAL 9016
Beam angle (FWHM)	Standard 85° (100° FWTM) On request 75° (95° FWTM)
UGR (4H8H 70/50/20)	<19
Fixture material	Housing: Steel Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Plug & Play Solutions prefab see page 188

Emergency light option see page 186

Ask our sales department about the possibilities for:
- Other dimensions



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
Special request	350	26,4	3050	3200	116	121
Special request	500	38,6	4300	4500	111	117
Standard	700	56,0	5800	6100	104	109

ITEM SPECIFICATIONS

Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Atrix FL 1720x100 5800 Lm 3000K No dim	100610959	Incl. PSU	220-240V	56,0	104	83	17,6	0,95	II
Atrix FL 1720x100 5800 Lm 3000K 1-10V & Push	100610960	Incl. PSU	220-240V	56,0	104	83	17,6	0,95	II
Atrix FL 1720x100 5800 Lm 3000K Dali	100610961	Incl. PSU	220-240V	56,0	104	83	17,6	0,95	II
Atrix FL 1720x100 6100 Lm 4000K No dim	100610962	Incl. PSU	220-240V	56,0	109	83	17,8	0,95	II
Atrix FL 1720x100 6100 Lm 4000K 1-10V & Push	100610963	Incl. PSU	220-240V	56,0	109	83	17,8	0,95	II
Atrix FL 1720x100 6100 Lm 4000K Dali	100610964	Incl. PSU	220-240V	56,0	109	83	17,8	0,95	II

All values are measured at 230V (+/- 7%).



ATRIX FL - RECESSED FOR MODULAR CEILINGS





Recessed for modular ceilings

-
Atrix FL

HV-IC en SLM technologie

Flikker effecten van verlichting

Het probleem van flikkeren van licht is welbekend. Omdat het de lichtbron is die flinkt is men geneigd te denken dat er iets mis is met de lichtbron. In veel gevallen is dat niet waar. Flikkering wordt in het algemeen veroorzaakt door de elektrische omgeving van de lichtbron. Vaak betekent dat dat het elektriciteitsnet (230V, 50-60Hz) geen "schone stroom" levert. Als er een dimmer gebruikt wordt, kan dit ook de oorzaak zijn.

Samenvattend zijn er vier oorzaken aan te wijzen voor het flikker effect:

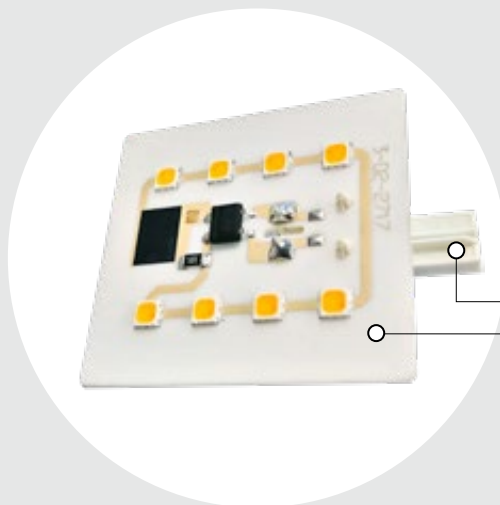
1. Gebruik van HV spots werkend op 100Hz, die direct, zonder driver gevoed worden door 50Hz wisselstroomnet.
2. Verstoringen in het elektriciteitsnet waardoor de netspanning tijdelijk varieert en dus ook het licht van de aangesloten spots varieert.
3. Bij gebruik van een niet geschikte dimmer.
4. Door TF(toonfrequente) stuursignalen (België: CAB) op het elektriciteitsnet (dit wordt gebruikt voor op afstand omschakelen van dag- naar nachtstroom). Dit gebeurt ook vaak in combinatie met dimmers die niet goed functioneren in aanwezigheid van TF signalen.



Kenmerken en voordelen

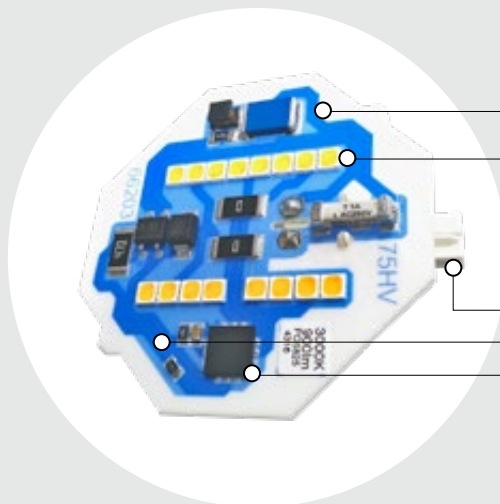
Onze basis serie van kleine downlights is verkrijgbaar met verschillende technologieën. Foto's van het LED-bord vindt u op deze pagina samen met de uitleg. Zo kunt u de beste keuze maken voor uw toepassing.

HV 400Lm



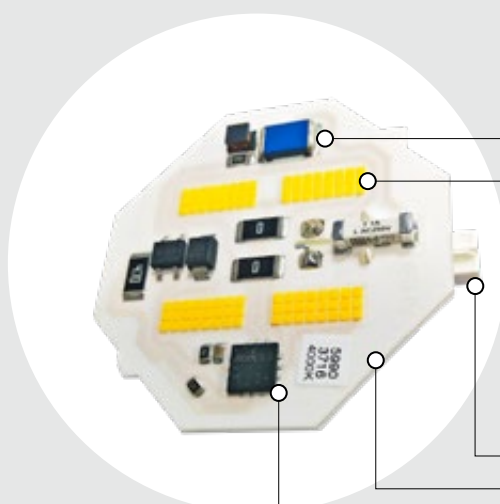
- Basisversie
- Niet altijd geschikt voor in een woon- en / of werkruimte. (1% van de mensen is gevoelig voor flikkeringen van 100Hz)
- 220-240V ingangsspanning
- Multi-junction-leds

HV-IC 600 & 900Lm



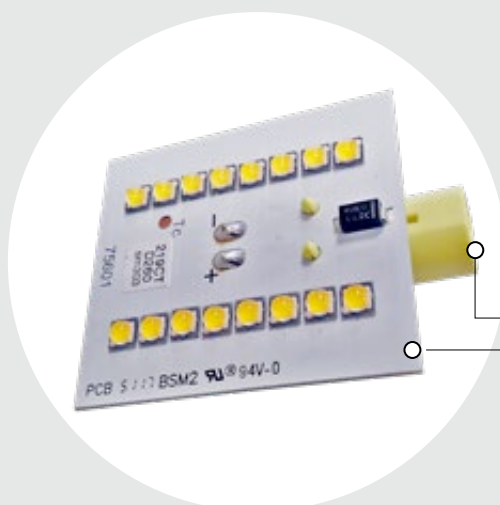
- Het geïntegreerde circuit vermindert het flikkeren zoveel als mogelijk
- Slechts 1% van de mensen neemt flikkerende effecten waar.
- Zeer betrouwbaar omdat er alleen passieve elektronische componenten in het circuit aanwezig zijn.
- Beveiligingscircuit tegen spanningspieken (1200V)
- Multi-junction-leds
- 220-240V ingangsspanning
- Blauwe beschermingslagen
- IC om flikkeringen te verminderen

HV-WD 900Lm



- Wanneer het licht wordt gedimd, verandert de kleur in warm wit, dit gebeurt om een mooie ambiance te creëren
 - Voor de rest is de elektronica hetzelfde als de HV-IC-versie
 - Beveiligingscircuit tegen spanningspieken (1200V)
 - 96 x 1W hoogvermogen LEDs / Lichtniveaus
- | | | | |
|------|------------|-------|--|
| 100% | helderheid | 3000K | |
| 50% | helderheid | 2900K | |
| 25% | helderheid | 2500K | |
| 10% | helderheid | 2200K | |
- 220-240V input
 - Keramische plaat voor optimale warmte afvoer
 - IC om flikkeringen te verminderen

SLM 1000 - 1500Lm



- Hoge lichtopbrengst
- Perfect licht voor werk- en woonruimtes
- DALI & 1-10V dimmingsopties beschikbaar (Triac op aanvraag)
- 24Vdc-ingang
- 16 x 4,5W high power LED-capaciteit

Bartenbach 'Dark Light' technologie

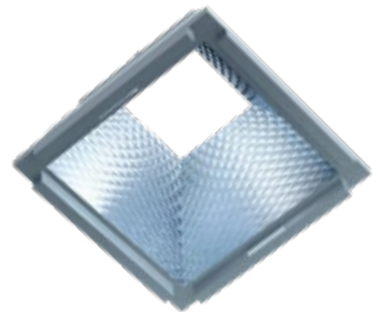


Technische samenwerking Bartenbach en Less Energy

In 2015 zijn Less Energy en het Oostenrijkse Bartenbach een technische samenwerking aangegaan op het gebied van reflectortechniek. Voorafgaand aan de ontwikkeling van de nieuwe producten heeft ons R&D team enkele kwaliteitseisen gesteld waaraan de producten moeten voldoen op het gebied van lichttechniek. Beide R&D teams hebben gewerkt aan het ontwikkelen van "darklight" reflectoren voor onze mini-downlights en het Atrix paneel.

Reflector

De reflectoren die in samenwerking met Bartenbach zijn gemaakt, zijn voorzien van hoogspiegelende facetten waardoor wij een hoge lichtopbrengst kunnen verzekeren. Op de gebruikelijke facetten van de reflector zitten vervolgens microfacetten waarmee het licht van de LEDs maximaal in de juiste richting gestuurd kan worden. Hierdoor kunnen we er dus voor zorgen dat zoveel mogelijk licht op het werkkoppervlak belandt.



Atrix reflector

Kenmerken 'Dark Light' technologie Bartenbach

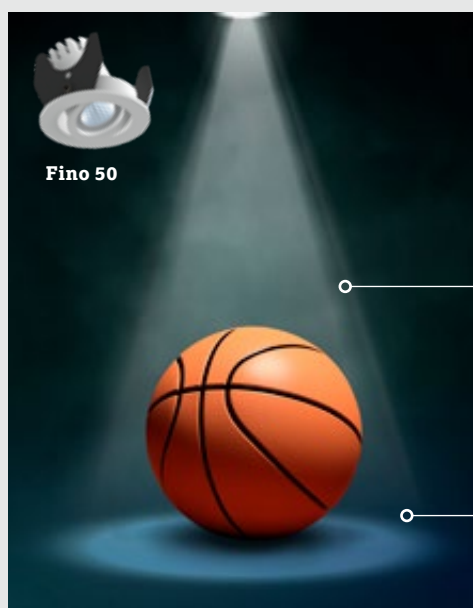
- Lage verblinding (UGR waarde) in combinatie met een hoge lichtopbrengst
- Uitstekende homogeniteit van de bundel, zelfs bij het gebruik van verschillende kleuren LEDs
- Beschermglas tegen aanslag op de spieggellaag

Bundel 24°



De bundel is aanvankelijk smal, maar in het onderste gedeelte is er veel strooilicht dat zorgt voor een hinderlijke inijk.

Bundel 40°



De bundel is wat breder, maar in het onderste gedeelte is vrijwel geen strooilicht aanwezig.

FWHM
(Full width half maximum) De bundelbreedte op 50% van het hoogste lichtniveau bedraagt 45°.

FWTM
(Full width tenth maximum) De bundelbreedte op 10% van het hoogste lichtniveau bedraagt 65°.

Lage UGR

Normaal gesproken wordt de bundelbreedte bepaald op 50% van de hoogste luxwaarde in de bundel (full width half maximum), vaak is er echter nog veel strooilicht aanwezig buiten deze bundelbreedte die zorgt voor hinderlijke glare. Bartenbach werkt om deze reden ook met gradenbundels die op een 10% waarde liggen (full width tenth maximum). De reflector van de Quadrato 35 is bijvoorbeeld 2x18,9° op de 50% waarde (FWHM) en slechts 2x32,7° op de 10% waarde (FWTM). Als we dit vergelijken met een standaard GU10 halogeenlamp van 2x12° dan zie je dat de gradenbundel op 10% juist nog breder zal zijn de 2x32,7°. In praktijk zal je zien dat je daardoor veel meer last hebt van verblinding bij een standaard GU10 lamp dan met de Quadrato 35 reflector.

Perfekte lichtkleur

Naast bovenstaande wordt het licht van alle 4 de LEDs die in het reflectorcupje zitten maximaal gemixt zodat er een lichtbundel ontstaat zonder gele vlekken. Dit is met name van belang voor de versies die gebruikmaken van 2 warm witte en 2 neutraal witte LEDs.



COB technologie

TE Connectivity

De gepatenteerde 'COB LED-connector' verzekert een uitstekende hittegeleiding via het koellichaam over de gehele levensduur.

COB LED

Deze armaturen bevatten de nieuwste generatie van hoog efficiënte 'Chip on Board' (COB) LEDs.

Beschermglas

Het beschermglas beschermt de LED en de reflectorspiegel af van de omgeving. Het is bewezen dat corrosie, rook en/of stof de reflectorspiegel van een LED-armatuur kunnen aantasten, wat kan leiden tot lichtverlies tot 50% gedurende de levensduur. In onze Less Energy COB-armaturen is een beschermglas ingebouwd dat zorgt voor extra bescherming. Hierdoor gaan onze armaturen langer mee zonder dat er sprake is van lichtverlies.

Oplossingen op maat

Alternatieve LED-chips voor afwijkende toepassingen zijn op aanvraag beschikbaar.

U kunt contact opnemen met de verkoopafdeling voor meer informatie.

3-fase adapter

Onze Luna track spot is gebouwd met een originele 3-fase adapter van Nordic aluminium. De extra bevestigingsclip op het armatuur zorgt voor een stevige constructie in de rails en maakt het geheel ook bruikbaar voor verticale montage.

Koellichaam

Het unieke thermische design maakt een lumen output tot 5700 Lm voor diverse uitvoeringen mogelijk.

Reflector

Wij hebben verschillende reflectors beschikbaar om diverse bundelbreedten te realiseren.

CRI96

Standaard is er een CRI96 versie beschikbaar waarmee ongelooflijk mooie effecten bereikt kunnen worden in kleurrijke winkels. Bij met name kleding worden de kleuren heel erg mooi en natuurgetrouw weergegeven.

Kenmerken en voordelen

- Aantrekkelijke prijs / kwaliteitverhouding
- Verschillende lichtkleuren, bundelbreedten en CRI mogelijkheden
- De gepatenteerde COB LED-connector verzekert een uitstekende hittegeleiding via de 'heat sink' over de gehele levensduur
- Deze armaturen bevatten de nieuwste versie van hoog efficiëntie 'Chip on Board' (COB) LEDs
- Het voorglas beschermt de LED en de reflectorspiegel tegen stof- en rookaanslag
- Maximale temperatuur van het koellichaam blijft onder de 70°C
- ENEC / EMC-conforme voedingen
- Actieve 'power factor'-correctie
- Hoogste kwaliteit (A-merk) elektronische componenten

LUXEON Stylist Series

Alle COB producten kunnen geleverd worden met LEDs van de LUXEON Stylist Series.

Lees meer op pagina 24.



Fashion Retail

LEDs die helder wit en levendige, verzadigde kleuren genereren, die er voor zorgen dat uw kleding optimaal wordt uitgelicht.



Fresh Food

LEDs die uw verse etenswaren accentueren, waardoor ze nog verser en aantrekkelijker ogen.



Restaurants

LEDs die de perfecte atmosfeer creëren in uw restaurant. Het maakt de ambiance sfeervoller, het verbetert de eetervaring en versterkt uw imago en merk.



LUXEON Stylist Series

TECHNOLOGIE - LUXEON STYLIST SERIES



LUXEON Stylist Series!

LEDs uit de LUXEON Stylist-serie zijn speciaal ontwikkeld voor winkels gespecialiseerd in mode, vers voedsel en restaurants.

Vraag onze verkoopafdeling naar de mogelijkheden.



Nieuwe normen vereisen nieuwe LEDs

TM-30 (nieuwe kleurnorm):
The Illuminating Engineering Society (IES) heeft een nieuw technisch memorandum gepubliceerd - TM-30-15 met de titel "IES-methode voor de evaluatie van de kleurbeleving van het licht" - die belooft CRI te vervangen als een kleurmetriek. TM-30 maakt gebruik van afzonderlijke getrouwheids- en gamma metrieken, evenals een reeks kleurstaten die meer representatief zijn voor real-world objecten, in tegenstelling tot de pastelkleurmonsters die voornamelijk werden gebruikt voor de CRI-statistiek van de basislijn die soms Ra werd genoemd.

De nieuwe kleurmetriek is bedoeld om zowel op LED-gebaseerde solid-state verlichting (SSL) als oudere lichtbronnen eerlijk en nauwkeurig te karakteriseren. Meer verzadiging maakt het eenvoudiger om onderscheid te maken tussen kleuren. Dit verbetert de beleving van objecten met fijne patronen van verschillende kleuren.

TLCI (televisie-verlichting Consistentie-index)

TLCI voorspelt hoe het licht op beeld zal verschijnen (foto en video). Studies hebben aangetoond dat de kleurweergave-index (CRI) van de verlichtingsindustrie niet geschikt is voor televisie vanwege het zwevende witte punt. TLCI bootst een complete televisiecamera en -weergave na, met alleen die specifieke kenmerken van camera's en schermen die de kleurprestaties beïnvloeden. De TLCI wordt berekend met behulp van software in plaats van echte televisie hardware. De enige hardware die nodig is, is een spectro radiometer. Deze wordt gebruikt om de spectrale vermogensverdeling van het testarmatuur te meten. Er is een computer nodig met daarop het software-analyseprogramma geïnstalleerd om de berekeningen uit te voeren. Een lichtbron met een hoge TLCI-score maakt belangrijke kostenbesparingen voor de gebruiker mogelijk omdat er geen kleurencorrectie nodig is in de postproductie.

	CCT	CRI	R9	Rf	Rg	TLCI	1400mA
Standaard CRI80	3000K	82	5	82	92	69	5000 Lm
Standaard CRI80	4000K	82	5	81	93	66	5700 Lm
Standaard CRI90	3000K	93	63	89	97	93	4250 Lm
CrispWhite	3000K	90	61	87	102	83	3550 Lm
CrispColor	2700K	94	96	93	106	93	3550 Lm
CrispColor	3000K	91	93	91	103	96	3750 Lm
CrispColor	3250K	93	95	90	101	97	3950 Lm
CrispColor	3500K	95	96	91	102	96	4000 Lm
CrispColor	4000K	95	96	90	101	96	4700 Lm
CrispColor	5000K	95	96	88	99	95	3800 Lm
AtmoSphere	2200K	92	55	90	99	88	3550 Lm
Brood en gebak	2700K	92	54	89	96	91	3500 Lm
Producteren	3000K	91	93	91	103	96	3300 Lm
Rood vlees	1800K	82	81	77	119	60	2350 Lm
Gemarmerd vlees	3000K	63	32	78	115	72	2150 Lm
Vis	6500K	96	96	89	98	96	3750 Lm



CrispColor Technology™

Binnen de wereld van de detailhandel is het uiterlijk erg belangrijk. Of het nu gaat om een exclusieve boetiek of een wereldwijde keten, het belang van verlichting en de impact ervan op klanten mag niet worden onderschat. Dat is de reden waarom LUXEON Stylist Series-LEDs voor modewinkels helderdere levendige en verzadigde kleuren produceren. Deze speciaal ontwikkelde LEDs zorgen ervoor dat artikelen in het best mogelijke licht worden gezien. Door gebruik te maken van CrispColor Technology™, deze is ontworpen om te worden gebruikt in plaats van halogeen- en gloeilampen, en CrispWhite Technology, dat het traditionele keramische metaal halide vervangt, biedt de LUXEON Stylist-serie baanbrekende verlichting die het winkelend publiek het product toont zoals het bedoeld is.

CrispWhite Technology™

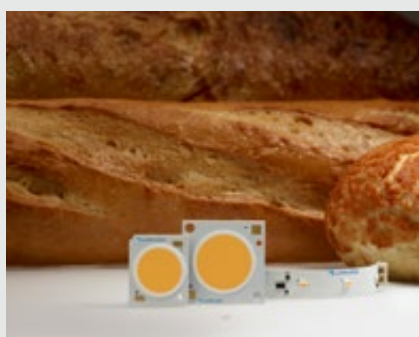
Alleen LEDs met een diepblauw aandeel activeren fluorescerende wit makende stoffen (FWA's). Bijna alle stoffen, kleding en verven bezitten deze witmakers. Het CrispWhite-spectrum wordt vooral geactiveerd in materialen met actieve FWA's. Hierdoor lijken producten helderder en aantrekkelijker. Het UV & Violet-spectrum activeert de FWA's. Lumileds CrispWhite Technology heeft een gepatenteerde technologie met een dubbele piek in het Violet Spectrum. Deze is in staat is om de FWA's te stimuleren zonder het risico van foto-biologische veiligheid bij gebruik van UV.

AtmoSphere Technology™

Deze LEDs zijn ontworpen om de perfecte ambiance in een restaurant te creëren. Of het nu gaat om een elegant wit tafelkleed of een gezellig buurtcafe, steeds meer restaurants proberen een omgeving te creëren die hen onderscheidt van hun concurrenten. Als onderdeel van deze zoektocht naar marktdifferentiatie realiseren vooruitstrevende restauranthouders zich dat verlichting een cruciale rol kan spelen bij het creëren van de perfecte ambiance voor diners.

Meer verzadiging maakt het eenvoudiger om onderscheid te maken tussen kleuren.

Dit verbetert de beleving van objecten met fijne patronen van verschillende kleuren.

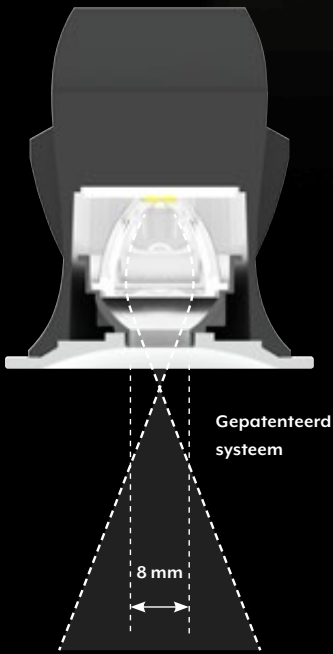


Combinatie van onovertroffen esthetiek met superieure efficiëntie

Naast het creëren van een aantrekkelijke ambiance binnen een restaurant, heeft de AtmoSphere Technology™ minder stroom nodig. Hierdoor kunnen restaurants van elke omvang hun uitgaven beperken en kunnen zij voldoen aan de strenge energienormen. Deze innovatieve LEDs gaan aanzienlijk langer mee dan traditionele gloei- en TL-verlichting. LEDs kunnen de onderhoudskosten helpen verlagen door minder vervanging te vereisen, met name als lampen moeilijk te bereiken zijn. De LUXEON Stylist-serie met AtmoSphere Technology™ bevat ook over een verminderde warmtebelasting deze kan helpen om de airconditioningskosten te verlagen. Dit is vooral aantrekkelijk voor vestigingen in warmere klimaten.

FreshFocus Technology™

FreshFocus Technology™ versterkt de visuele versheid van vers voedsel. Winkeliers weten dat de vers voedselgebieden “de reden zijn” waarom klanten naar hun winkels komen. Door het optimaliseren van de verzadiging van de meest dominante kleur, toegespitst op het verse product, leidt tot een hogere verkoop hiervan. Uit onderzoek blijkt dat voedselverspilling tot 4% van de omzet van retailers kan kosten. Het vleesgebied is een van de meest betrokken gebieden. Shoppers “kopen” met hun ogen. De juiste LEDs kunnen rood weergeven voor een betere visuele aantrekkingskracht van vlees, de aantrekkingskracht van brood en gebak vergroten, toont de meest natuurlijke en aantrekkelijke vis en benadrukken het “net geplukte” uiterlijk van fruit en groenten. Bovendien bespaart LED-verlichting energie, vermindert het de belasting van het milieu en helpt het, zonder IR en zonder UV, om de producten langer vers te houden.



Gepatenteerd systeem

8 mm

1. Hoogwaardige aluminium heatsink met een uniek en elegant ontwerp.

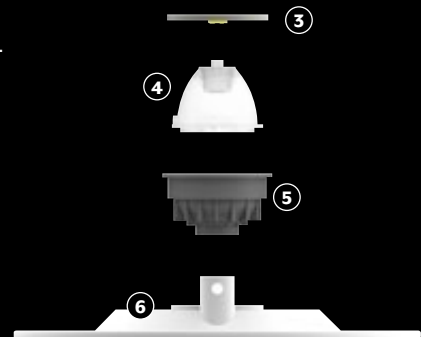
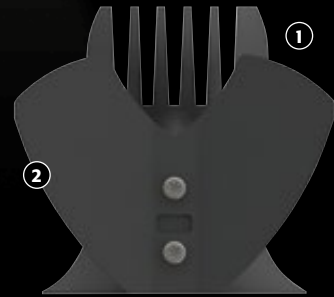
2. Nieuw universeel veerontwerp voor gyproc- en betonnen plafonds

3. PCB met een hoog vermogen Cree Powerled in 2700, 3000 en 4000K

4. Het door Less Energy gepatenteerde optische lensstelsel maakt pin-hole licht mogelijk.

5. Anti-verblindingsring voorkomt strooilight. De totale lichtopening is slechts 8 mm!

6. Gladde frontring in diverse kleuren verkrijgbaar

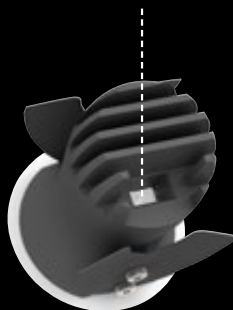


Aanpassingsoptie Patio 68 adj

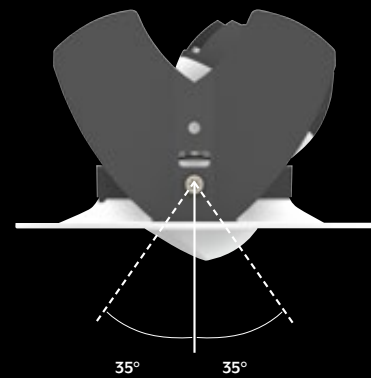


350°

Plug and play-systeem voor 500 en 700 mA-stuurprogramma's. De Patio-serie is dimbaar.



Aanpassingsoptie Patio 68 adj



35°

35°

Patio series

De nieuwe handtekening in architecturale verlichting

Wanneer je een kamer betreed die perfect verlicht is, maar je ziet geen lichtpunten. Dat is de nieuwe handtekening binnen de architecturale verlichting en het begint met de Less Energy Patio-serie. 3 nieuwe armaturen met unieke lenzen die niet verblindend zijn. Met een lichtopening van slechts een diameter van 8 mm, produceert dit armatuur nog altijd 350 of 650 lumen. Dit zorgt voor een bijna onzichtbare lichtervaring die architecten en lichtontwerpers de mogelijkheid biedt om een kamer te presenteren zoals ze nog nooit eerder was geweest. Alle aandacht gaat naar de kamer, niet naar de schittering.



Zero glare lens

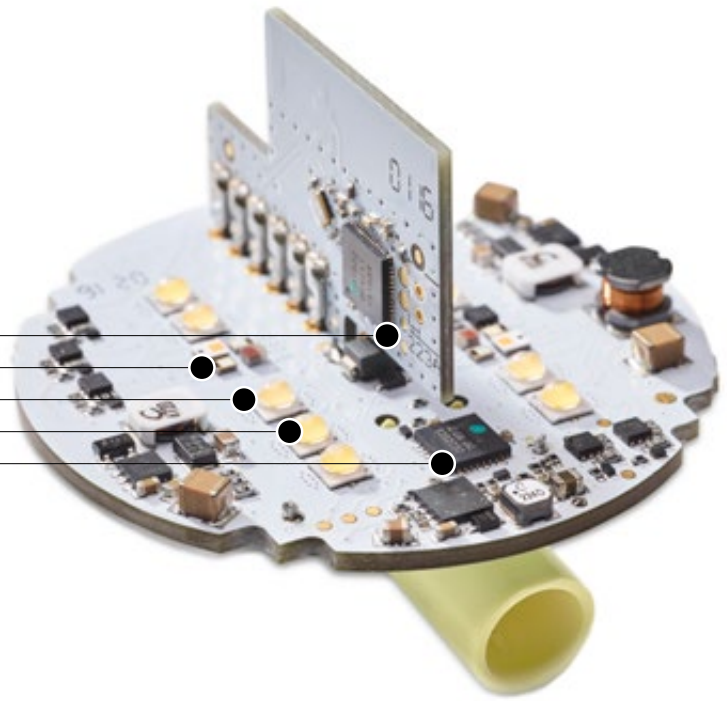
De Patio-serie gaat helemaal over een revolutionaire nieuwe lens die de stralingshoek collimeert. Dit betekent dat de straal in een zandlopervorm zal worden weerspiegeld. De hals van de zandloperbundelhoek valt precies door de opening van de verlichtingsspot. De stralingshoek is hier het smalst en daarom heeft het lichtuitstralende oppervlak van de Patio spots slechts een diameter van 8 mm.

De lens biedt de mogelijkheid voor een interne antiverblindingsring. Dit zorgt voor een schoner ontwerp en ultra lage UGR-waarden. Er is vrijwel geen schittering van Patio aanwezig, dit geeft een bijna onzichtbare lichtervaring. De kamer is perfect verlicht, maar er zijn geen lichtpunten te zien. Dit geeft een strak en ontspannen effect in kamers die zijn uitgerust met Patio spots.

BLE-ND (LV-RGB)

6 kanaals LED-module

- Nordic draadloze Bluetooth IC
- Krachtige kleuren-LEDs om CRI tot 97 te verhogen
- 4x High Power 2700K LEDs
- 6x High Power 4000K LEDs
- IC voor het mixen van het spectrum en dimmen



BLE-ND

De naam BLE-ND betekent: Bluetooth Low Energy - New Definition. Het is een nieuwe technologie die door onze engineers is ontworpen om te kunnen variëren van warm wit naar koel wit licht en bovendien de mogelijkheid biedt om RGB-kleuren te creëren. Door onze app te gebruiken kunt u eigen groepen van armaturen maken en deze instellen zoals u dat wilt. Deze innovatie is verwerkt in enkele van onze armaturen.

Controlled by app

De app is beschikbaar voor iOS en Android komt in de nabije toekomst.

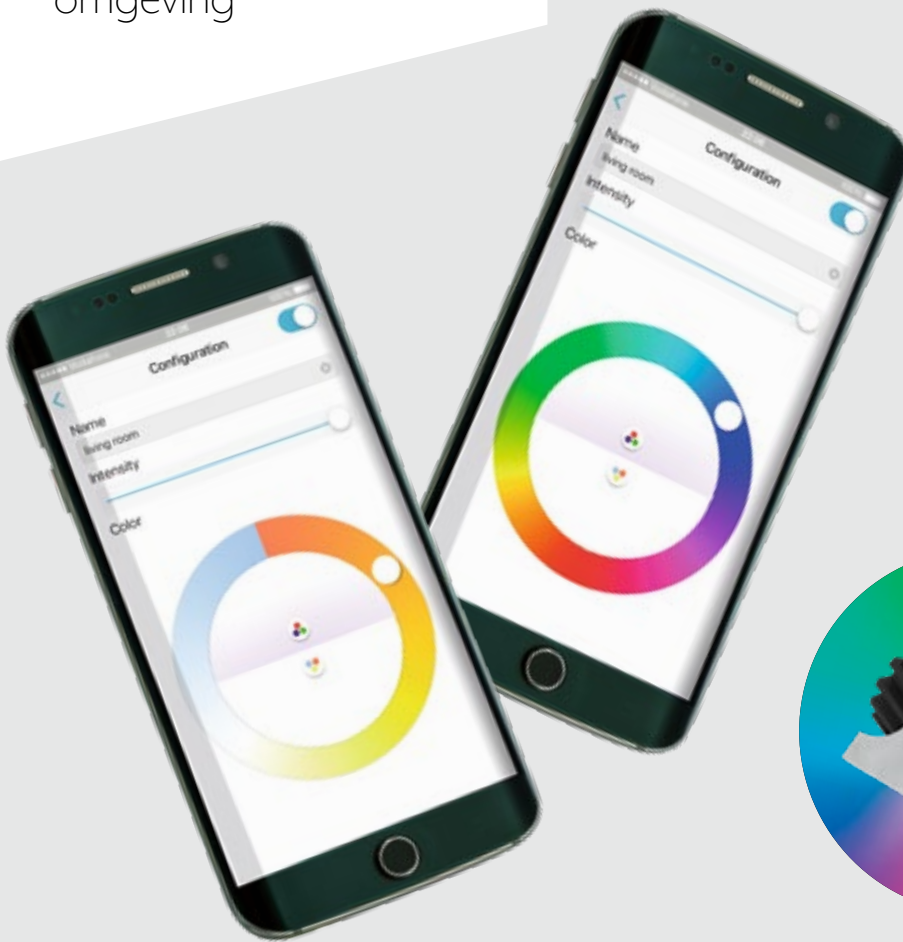
CCT technologie

Het gebruik van 2 of meerdere types LEDs in hetzelfde verlichtingstoestel is van belang voor Less Energy omdat zij ernaar streeft dat de kleur van het licht warmer wordt als er gedimd wordt.

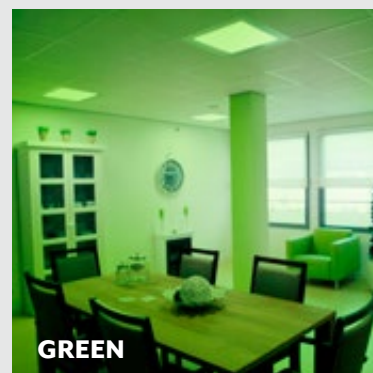
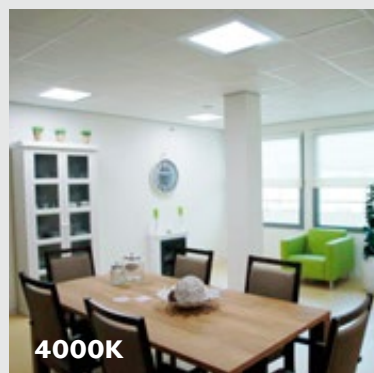
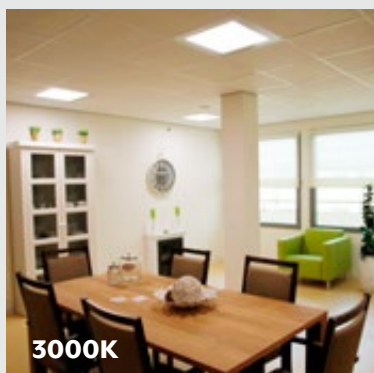
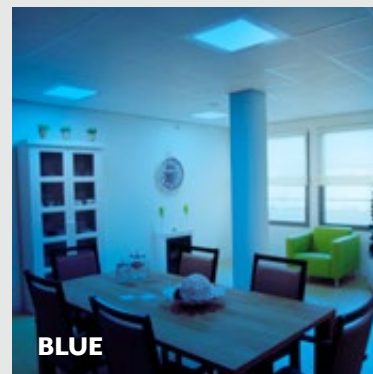
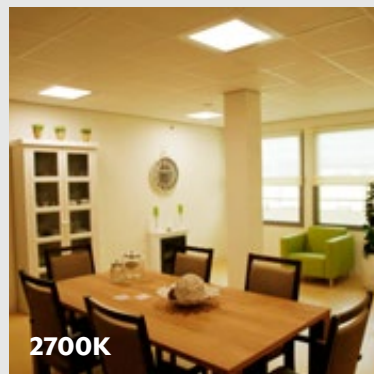
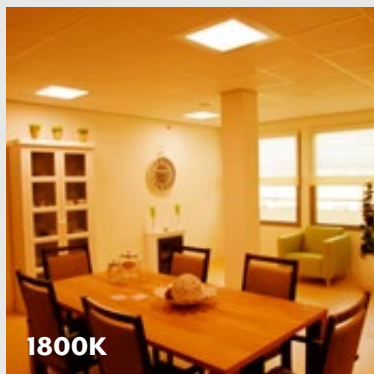
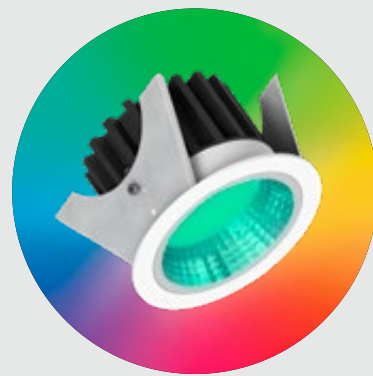
Kenmerken en voordelen

- Zeer geavanceerde LED-armaturen gebaseerd op Bluetooth Low Energy technologie
- Wordt aangestuurd via een app op de smartphone of tablet
- Zes individuele kanalen voor zes verschillende LED-chips
- Ingebouwde Bluetooth-antenne met een bereik van meer dan 10 meter
- Beschikbaar voor iOS
- Gekalibreerde armaturen voor een optimale lichtkleur en -consistentie
- Ingebouwde warmteprotectie-systeem voor een levensduur van minimaal 70.000 uren

Bepaal de lichtkleur met
je smartphone en maak
de juiste ambiance in uw
omgeving



BLEND



TCI voedingen



Conform gezondheidsnorm

De 'ripple free' LED-voedingen (<3%) van TCI zorgen voor zo min mogelijk flikkering. Onderzoeken hebben uitgewezen dat er een relatie is tussen flikkering en gezondheid. Daarom zijn verlichtingssystemen met een lage flikkering belangrijke voor zakelijke en woonruimtes.

Video- en fotobestendig

Verlichting met een lage flikkering-index is essentieel in ruimtes waar (video)camera's gebruikt worden. Flikkerend licht heeft namelijk een negatief effect op de kwaliteit van foto- en videomateriaal.

Overspanningsbeveiliging

De meeste TCI-voedingen zijn beveiligd tegen overspanning tot 4kV. Dit is behoorlijk boven de norm van 1kV. Veel LEDs zijn beschermd tot 500V. Deze overspanningsbeveiliging van de TCI-voedingen resulteert in een extreem laag defectpercentage van 0,2%.

Hogere lichtopbrengst

Een LED-driver met een lagere ripple factor is 5% meer efficiënt wanneer we spreken over de lichtopbrengst.

'Ripple free'

TCI LED-voedingen zijn voorzien van een meertraps-circuit om de LEDs te voorzien van de perfecte 'stroom' (zuivere gelijkstroom). Lage kwaliteit voedingen met een hoge 'ripple factor' kunnen problemen veroorzaken waaronder hoofdpijn, vermoeide ogen, slechtziendheid of in extreme gevallen zelfs epileptische aanvallen.

Lage temperatuur

De temperatuur bij normaal gebruik blijft ver onder de maximaal geadviseerde temperatuur door de fabrikant. Hierdoor is het mogelijk om zelfs tot 45°C omgevingstemperatuur een lange levensduur te garanderen van 7 jaar.

Veiligheid en beveiliging

- Beveiligd tegen spanningspieken in het elektriciteitsnet
- Beveiligd tegen extreme hitte
- Beveiligd tegen overbelasting

Referentienormen

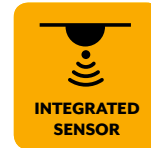
Alle voedingen zijn door diverse onafhankelijke organisaties getest op veiligheid en EMC. Ze voldoen aan de volgende normen:
EN 50172 (VDE 0108)
EN 55015
EN 61000-3-2
EN 61000-3-3
EN 61347-1
EN 61347-2-13
EN 61547 VDE 0710-T14

Kenmerken en voordelen

- Beveiligd tegen overspanningen tot 4kV
- Diverse dimopties (1-10V, push, DALI, Triac)
- Meerdere stromen door dip-switch-instellingen
- Lage bedrijfstemperatuur
- Maximale temperatuur van het koellichaam blijft onder de 70°C
- Geproduceerd in Europa
- Conform ENEC/EMC
- Trekontlasting volgens de Europese veiligheidsstandaarden
- Actieve 'power factor'-correctie
- Hoogste kwaliteit (A-merk) elektronische componenten



Sensor technologie



TECHNOLOGIE - SENSOR

Bewegingsdetector

Onze armaturen met ingebouwde sensor kunnen het beste geïnstalleerd worden in kleinere ruimtes waar slechts één lichtbron vereist is, bijvoorbeeld toiletten en gangen. Het armatuur wordt aangestuurd op zelfstandige basis en kan daarom niet in een 'master/slave'-combinatie worden gebruikt.

Complexe software

De goede werking van een ingebouwde sensor in een armatuur wordt bepaald door onder andere temperatuurverschil binnen elektronische circuits, harmonische verstoringen, voltagepieken, inschakelstroom van andere apparatuur, om maar een paar mogelijkheden te noemen. Met al deze factoren is rekening gehouden in een complex softwaremodel, waardoor de sensor werkt zoals het hoort.

Quote PIR-sensor

Zowel de sensor als de lens komen van Murata Electronics, een internationale marktleider qua ontwerp, productie en levering van hoogwaardige elektronische materialen. De sensor is een Quad-type, die exclusief wordt gebruikt in ruimtes waar sensitiviteit en betrouwbaarheid van doorslaggevend belang is.

Installatie-mogelijkheden

De armaturen met sensor kunnen worden ingebouwd in bijvoorbeeld: toiletten, gangen, opslagruimtes, garages, schuren, voordeurafdakjes of luifels bij een achterdeur.

Kenmerken en voordelen

- Armaturen met geïntegreerde (PIR) bewegingssensor
- Betrouwbaar onder alle condities
- CRI van >93 bij 2700K (voor zekere kleurweergave)

Installatie: Veren

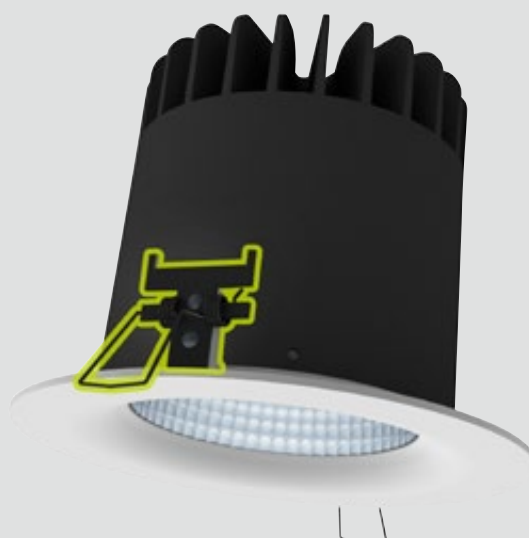


Betonveren

Betonveren kunnen gebruikt worden in vrijwel elk plafondtype. Zeker bij de grote inbouwspots is het gebruik van een achterhout bij een zachte mineraalplaat een vereiste. De omgezette rand van de veer zorgt ervoor dat de tegel niet beschadigt. Het is aangeraden om het gat in de achterplaat 10mm groter te maken dan de opgegeven gatmaat (mits deze de maximale gatmaat niet overschrijdt).

Springveren

Springveren zijn traditionele veren die uitermate geschikt zijn voor zachte plafondtegels in combinatie met achterhout (welke niet uit het plafond genomen kunnen worden). Voor betonnen plafonds en zachte plafondtegels zonder achterhout zijn ze echter niet geschikt.



Gyprocveren

Gyprocveren zijn uitermate geschikt voor een snelle montage in harde plafondtegels zonder achterhout. Alleen beschikbaar bij grote Luna- armaturen. Door tegen de klok in te draaien trekt u het armatuur extra vast in de tegel.



Fino 35



↔
ø 42 mm

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006

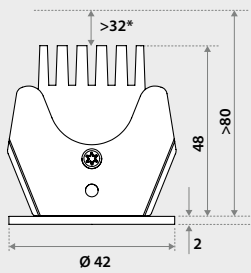


Matt black
RAL 9005

SPRINGS

No other springs available.

DIMENSIONS



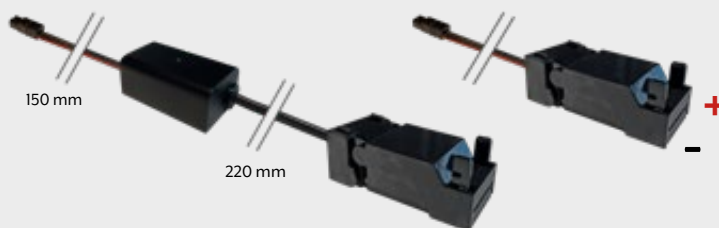
* This distance is necessary because of the height of the connection box (80 mm). For purely heat reasons just 5 mm is sufficient.

Incl. PSU No dim (100-240V)

PSU 63x30x22 mm
Connection box 80x28x26 mm

Incl. conn.box (24Vdc / 350mA)*

For installation to a central power supply.
Connection box 80x28x26 mm
Cable 150 mm



SPECIFICATIONS

Colour(s)	Matt white RAL 9016
	Matt grey RAL 9006
	Matt black RAL 9005
Beam angle (FWHM)	40° (65° FWTM)
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

*See page 184-185 for more information about power supplies.



Only for plasterboard ceilings or similar hard materials.

IP20

Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

IP44



REPLACEMENT



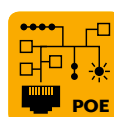
7 YEARS WARRANTY



UGR <16



NL DUTCH ORIGIN



POE



1-10V CONTROLLED



ITEM SPECIFICATIONS

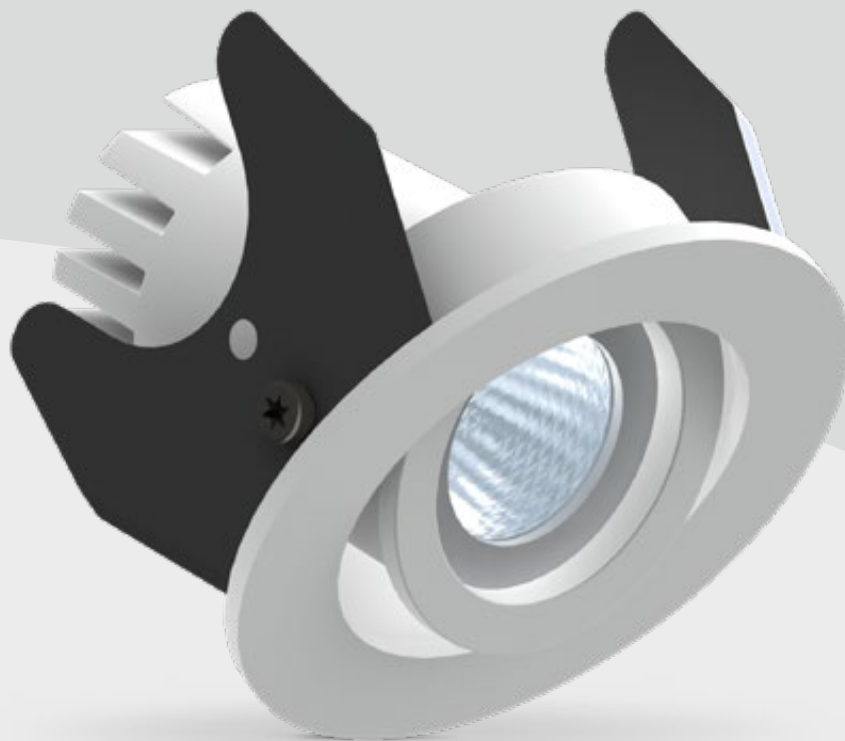
Description	Item code		
	Matt white	Matt grey	Matt black
Fino 35 LV 375 Lm 2700K No dim	100608510	100608508	100608506
Fino 35 LV 400 Lm 3000K No dim	100607540	100607538	100607536
Fino 35 LV 425 Lm 4000K No dim	100609852	100609850	100609848
Fino 35 LV 24Vdc 375 Lm 2700K No dim	100608509	100608507	100608505
Fino 35 LV 24Vdc 400 Lm 3000K No dim	100607539	100607537	100607529
Fino 35 LV 24Vdc 425 Lm 4000K No dim	100609851	100609849	100609847
Fino 35 LV 350mA 375 Lm 2700K Dim	100607639	100607637	100608505
Fino 35 LV 350mA 400 Lm 3000K Dim	100607640	100607638	100607636
Fino 35 LV 350mA 425 Lm 3000K Dim	100609861	100609857	100609853

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Fino 35 LV 375 Lm 2700K No dim	Incl. PSU	100-240V	x	5,7	66	82	14.4	0.6	II
Fino 35 LV 400 Lm 3000K No dim	Incl. PSU	100-240V	x	5,7	70	82	14.4	0.6	II
Fino 35 LV 425 Lm 4000K No dim	Incl. PSU	100-240V	x	5,7	75	82	14.4	0.6	II
Fino 35 LV 24Vdc 375 Lm 2700K No dim	Incl. conn.box	24Vdc	x	4,5	83	82	14.4	x	III
Fino 35 LV 24Vdc 400 Lm 3000K No dim	Incl. conn.box	24Vdc	x	4,5	89	82	14.4	x	III
Fino 35 LV 24Vdc 425 Lm 4000K No dim	Incl. conn.box	24Vdc	x	4,5	94	82	14.4	x	III
Fino 35 LV 350mA 375 Lm 2700K Dim	Incl. conn.box	350mA	11,9	4,5	83	82	14.4	x	III
Fino 35 LV 350mA 400 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	89	82	14.4	x	III
Fino 35 LV 350mA 425 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	94	82	14.4	x	III

All values are measured at 230V (+/- 7%).



Fino 50



ø 55 mm

COLOURS



Matt white
RAL 9016

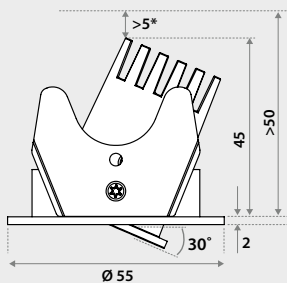
Matt grey
RAL 9006

Matt black
RAL 9005

SPRINGS

No other springs available.

DIMENSIONS



Incl. PSU Triac dim (220-240V)

PSU Triac dim 102x38x21 mm

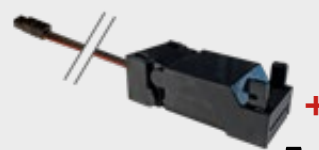


Incl. conn.box (24Vdc / 350mA)*

For installation to a central power supply.

Connection box 80x28x26 mm

Cable 150 mm



*This distance is necessary because of the height of the connection box (80 mm). For purely heat reasons just 5 mm is sufficient.

SPECIFICATIONS

Colour(s)	Matt white RAL 9016
	Matt grey RAL 9006
	Matt black RAL 9005
Beam angle (FWHM)	40° (65° FWTM)
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

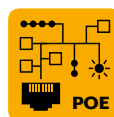
The lamps cannot be changed in the luminaire.

EU 874/2012

*See page 184-185 for more information about power supplies.



Only for plasterboard ceilings or similar harder materials.



ITEM SPECIFICATIONS

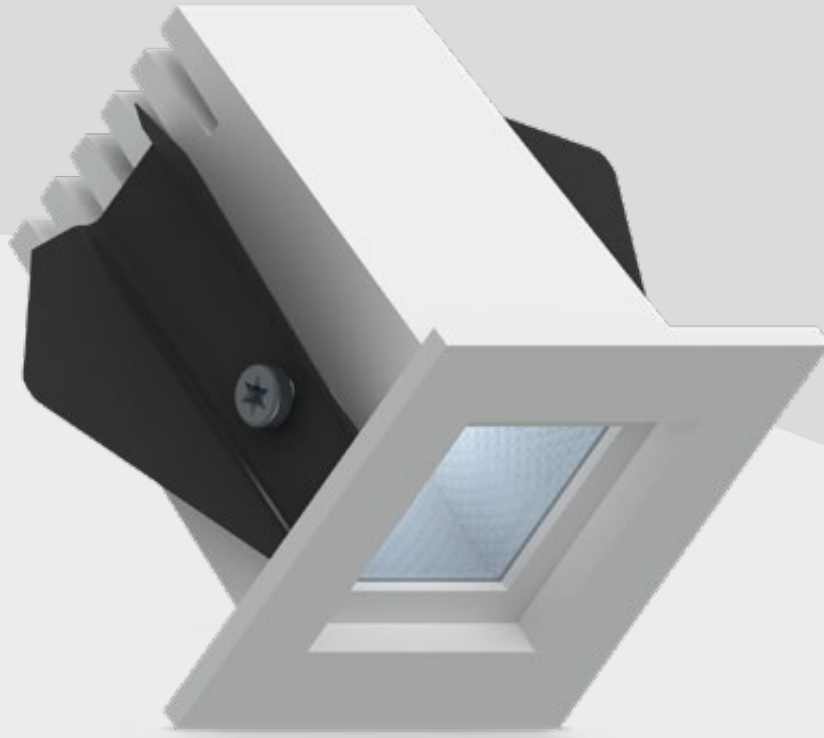
Description	Item code		
	Matt white	Matt grey	Matt black
Fino 50 adj LV 375 Lm 2700K Triac dim	100609844	100609840	100609836
Fino 50 adj LV 400 Lm 3000K Triac dim	100609845	100609841	100609837
Fino 50 adj LV 425 Lm 4000K Triac dim	100609846	100609842	100609838
Fino 50 adj LV 24Vdc 375 Lm 2700K No dim	100608502	100608500	100608498
Fino 50 adj LV 24Vdc 400 Lm 3000K No dim	100607534	100607532	100607530
Fino 50 adj LV 24Vdc 425 Lm 4000K No dim	100609833	100609831	100609829
Fino 50 adj LV 350mA 375 Lm 2700K Dim	100607621	100607619	100608498
Fino 50 adj LV 350mA 400 Lm 3000K Dim	100607622	100607620	100607618
Fino 50 adj LV 350mA 425 Lm 4000K Dim	100609843	100609839	100609835

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Fino 50 adj LV 375 Lm 2700K Triac dim	Incl. PSU	220-240V	x	5,7	66	82	14.4	0.96	II
Fino 50 adj LV 400 Lm 3000K Triac dim	Incl. PSU	220-240V	x	5,7	70	82	14.4	0.96	II
Fino 50 adj LV 425 Lm 4000K Triac dim	Incl. PSU	220-240V	x	5,7	75	82	14.4	0.96	II
Fino 50 adj LV 24Vdc 375 Lm 2700K No dim	Incl. conn.box	24Vdc	x	4,5	83	82	14.4	x	III
Fino 50 adj LV 24Vdc 400 Lm 3000K No dim	Incl. conn.box	24Vdc	x	4,5	89	82	14.4	x	III
Fino 50 adj LV 24Vdc 425 Lm 4000K No dim	Incl. conn.box	24Vdc	x	4,5	94	82	14.4	x	III
Fino 50 adj LV 350mA 375 Lm 2700K Dim	Incl. conn.box	350mA	11,9	4,5	83	82	14.4	x	III
Fino 50 adj LV 350mA 400 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	89	82	14.4	x	III
Fino 50 adj LV 350mA 425 Lm 4000K Dim	Incl. conn.box	350mA	11,9	4,5	94	82	14.4	x	III

All values are measured at 230V (+/- 7%).



Quadrato 35



42x42 mm

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006

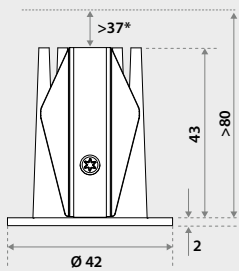


Matt black
RAL 9005

SPRINGS

No other springs available.

DIMENSIONS



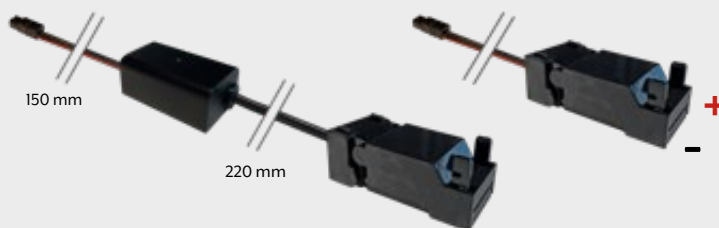
* This distance is necessary because of the height of the connection box (80 mm). For purely heat reasons just 5 mm is sufficient.

Incl. PSU No dim (100-240V)

PSU	63x30x22 mm
Connection box	80x28x26 mm

Incl. conn.box (24Vdc / 350mA)*

For installation to a central power supply.	
Connection box	80x28x26 mm
Cable	150 mm



SPECIFICATIONS

Colour(s)	Matt white RAL 9016
	Matt grey RAL 9006
	Matt black RAL 9005
Beam angle (FWHM)	40° (65° FWTM)
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

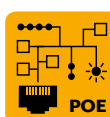
*See page 184-185 for more information about power supplies.



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Quadrato 35 LV 375 Lm 2700K No dim	100608516	100608514	100608512
Quadrato 35 LV 400 Lm 3000K No dim	100607546	100607544	100607542
Quadrato 35 LV 425 Lm 4000K No dim	100610170	100610168	100610166
Quadrato 35 LV 24Vdc 375 Lm 2700K No dim	100608515	100608513	100608511
Quadrato 35 LV 24Vdc 400 Lm 3000K No dim	100607545	100607543	100607541
Quadrato 35 LV 24Vdc 425 Lm 4000K No dim	100610169	100610167	100610165
Quadrato 35 LV 350mA 375 Lm 2700K Dim	100607685	100607683	100607681
Quadrato 35 LV 350mA 400 Lm 3000K Dim	100607686	100607684	100607682
Quadrato 35 LV 350mA 425 Lm 4000K Dim	100610179	100610175	100610171

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Quadrato 35 LV 375 Lm 2700K No dim	Incl. PSU	100-240V	x	5,7	66	82	14.4	0.6	II
Quadrato 35 LV 400 Lm 3000K No dim	Incl. PSU	100-240V	x	5,7	70	82	14.4	0.6	II
Quadrato 35 LV 425 Lm 4000K No dim	Incl. PSU	100-240V	x	5,7	75	82	14.4	0.6	II
Quadrato 35 LV 24Vdc 375 Lm 2700K No dim	Incl. conn.box	24Vdc	x	4,5	83	82	14.4	x	III
Quadrato 35 LV 24Vdc 400 Lm 3000K No dim	Incl. conn.box	24Vdc	x	4,5	89	82	14.4	x	III
Quadrato 35 LV 24Vdc 425 Lm 4000K No dim	Incl. conn.box	24Vdc	x	4,5	94	82	14.4	x	III
Quadrato 35 LV 350mA 375 Lm 2700K Dim	Incl. conn.box	350mA	11,9	4,5	83	82	14.4	x	III
Quadrato 35 LV 350mA 400 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	89	82	14.4	x	III
Quadrato 35 LV 350mA 425 Lm 4000K Dim	Incl. conn.box	350mA	11,9	4,5	94	82	14.4	x	III

All values are measured at 230V (+/- 7%).



SPECIFICATIONS

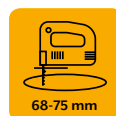
Colour(s)	Matt white RAL 9016
	Matt black RAL 9005
Beam angle (FWHM)	40° (65° FWTM)
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

*See page 184-185 for more information about power supplies.



68-75 mm

IP20



REPLACEMENT



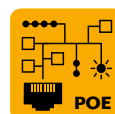
7 YEARS WARRANTY



UGR <16



NL DUTCH ORIGIN



POE



1-10V CONTROLLED



ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Luna 68 adj LV 375 Lm 2700K Triac dim	100609752	100609746
Luna 68 adj LV 400 Lm 3000K Triac dim	100609754	100609748
Luna 68 adj LV 425 Lm 4000K Triac dim	100609756	100609750
Luna 68 adj LV 24Vdc 375 Lm 2700K No dim	100609742	100609739
Luna 68 adj LV 24Vdc 400 Lm 3000K No dim	100609743	100609740
Luna 68 adj LV 24Vdc 425 Lm 4000K No dim	100609744	100609741
Luna 68 adj LV 350mA 375 Lm 2700K Dim	100609751	100609745
Luna 68 adj LV 350mA 400 Lm 3000K Dim	100609753	100609747
Luna 68 adj LV 350mA 425 Lm 4000K Dim	100609755	100609749

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Luna 68 adj LV 375 Lm 2700K Triac dim	Incl. PSU	220-240V	x	5,7	66	82	14.4	0.96	II
Luna 68 adj LV 400 Lm 3000K Triac dim	Incl. PSU	220-240V	x	5,7	70	82	14.4	0.96	II
Luna 68 adj LV 425 Lm 4000K Triac dim	Incl. PSU	220-240V	x	5,7	75	82	14.4	0.96	II
Luna 68 adj LV 24Vdc 375 Lm 2700K No dim	Incl. conn.box	24Vdc	x	4,5	83	82	14.4	x	III
Luna 68 adj LV 24Vdc 400 Lm 3000K No dim	Incl. conn.box	24Vdc	x	4,5	89	82	14.4	x	III
Luna 68 adj LV 24Vdc 425 Lm 4000K No dim	Incl. conn.box	24Vdc	x	4,5	94	82	14.4	x	III
Luna 68 adj LV 350mA 375 Lm 2700K Dim	Incl. conn.box	350mA	11,9	4,5	83	82	14.4	x	III
Luna 68 adj LV 350mA 400 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	89	82	14.4	x	III
Luna 68 adj LV 350mA 425 Lm 4000K Dim	Incl. conn.box	350mA	11,9	4,5	94	82	14.4	x	III

All values are measured at 230V (+/- 7%).



LUNA 68 (ADJUSTABLE) - DOWNLIGHTS





Downlights

-
Luna 68

NEW

Patio 40



↔
ø 47 mm

PATIO 40 (FIXED) - DOWNLIGHTS

COLOURS



Matt white
RAL 9016

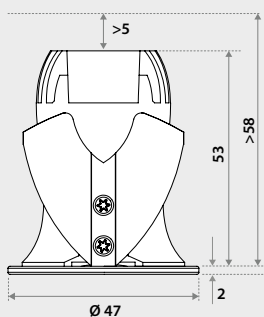


Matt black
RAL 9005

SPRINGS

No other springs available.

DIMENSIONS



Incl. PSU No dim (100-240V)

PSU No dim 68x35x22 mm
Cable 150 mm



Incl. conn.box (500MA)*

For installation to a central power supply.

Connection box 80x28x26 mm
Cable 150 mm



SPECIFICATIONS

Colour(s)	Matt white RAL 9016 Matt black RAL 9005
Beam angle (FWHM)	35° (45° FWTM) / 60° (80° FWTM)
Fixture material	Housing: Die cast aluminium
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK10
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

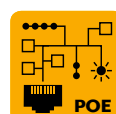
The lamps cannot be changed in the luminaire.

EU 874/2012

*See page 184-185 for more information about power supplies.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Patio 40 LV 35° 350 Lm 2700K No dim	100603396	100603384
Patio 40 LV 35° 375 Lm 3000K No dim	100603397	100603385
Patio 40 LV 35° 400 Lm 4000K No dim	100603398	100603386
Patio 40 LV 60° 400 Lm 2700K No dim	100603399	100603387
Patio 40 LV 60° 425 Lm 3000K No dim	100603400	100603388
Patio 40 LV 60° 450 Lm 4000K No dim	100603401	100603389
Patio 40 LV 500mA 35° 350 Lm 2700K	100603390	100603378
Patio 40 LV 500mA 35° 375 Lm 3000K	100603391	100603379
Patio 40 LV 500mA 35° 400 Lm 4000K	100603392	100603380
Patio 40 LV 500mA 60° 400 Lm 2700K	100603393	100603381
Patio 40 LV 500mA 60° 425 Lm 3000K	100603394	100603382
Patio 40 LV 500mA 60° 450 Lm 4000K	100603395	100603383

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Patio 40 LV 35° 350 Lm 2700K No dim	Incl. PSU	100-240V	x	6,6	53	85	7.4	0.6	II
Patio 40 LV 35° 375 Lm 3000K No dim	Incl. PSU	100-240V	x	6,6	57	85	7.6	0.6	II
Patio 40 LV 35° 400 Lm 4000K No dim	Incl. PSU	100-240V	x	6,6	61	85	7.9	0.6	II
Patio 40 LV 60° 400 Lm 2700K No dim	Incl. PSU	100-240V	x	6,6	61	85	17.8	0.6	II
Patio 40 LV 60° 425 Lm 3000K No dim	Incl. PSU	100-240V	x	6,6	64	85	18.0	0.6	II
Patio 40 LV 60° 450 Lm 4000K No dim	Incl. PSU	100-240V	x	6,6	68	85	18.2	0.6	II
Patio 40 LV 500mA 35° 350 Lm 2700K	Incl. Conn.Box	500mA	11,4	5,7	61	85	7.4	x	III
Patio 40 LV 500mA 35° 375 Lm 3000K	Incl. Conn.Box	500mA	11,4	5,7	66	85	7.6	x	III
Patio 40 LV 500mA 35° 400 Lm 4000K	Incl. Conn.Box	500mA	11,4	5,7	70	85	7.9	x	III
Patio 40 LV 500mA 60° 400 Lm 2700K	Incl. Conn.Box	500mA	11,4	5,7	70	85	17.8	x	III
Patio 40 LV 500mA 60° 425 Lm 3000K	Incl. Conn.Box	500mA	11,4	5,7	75	85	18.0	x	III
Patio 40 LV 500mA 60° 450 Lm 4000K	Incl. Conn.Box	500mA	11,4	5,7	79	85	18.2	x	III

All values are measured at 230V (+/- 7%).



SPECIFICATIONS

Colour(s)	Matt white RAL 9016 Matt black RAL 9005
Beam angle (FWHM)	35° (45° FWTM) / 60° (80° FWTM)
Fixture material	Housing: Die cast aluminium
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK10
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

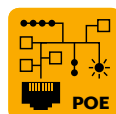
The lamps cannot be changed in the luminaire.

EU 874/2012

*See page 184-185 for more information about power supplies.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Patio 68 fix LV 35° 500 Lm 2700K Triac dim	100603415	100603403
Patio 68 fix LV 35° 525 Lm 3000K Triac dim	100603417	100603405
Patio 68 fix LV 35° 550 Lm 4000K Triac dim	100603419	100603407
Patio 68 fix LV 60° 550 Lm 2700K Triac dim	100603421	100603409
Patio 68 fix LV 60° 600 Lm 3000K Triac dim	100603423	100603411
Patio 68 fix LV 60° 650 Lm 4000K Triac dim	100603425	100603413
Patio 68 fix LV 700mA 35° 500 Lm 2700K Dim	100603414	100603402
Patio 68 fix LV 700mA 35° 525 Lm 3000K Dim	100603416	100603404
Patio 68 fix LV 700mA 35° 550 Lm 4000K Dim	100603418	100603406
Patio 68 fix LV 700mA 60° 550 Lm 2700K Dim	100603420	100603408
Patio 68 fix LV 700mA 60° 600 Lm 3000K Dim	100603422	100603410
Patio 68 fix LV 700mA 60° 650 Lm 4000K Dim	100603424	100603412

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Patio 68 fix LV 35° 500 Lm 2700K Triac dim	Incl. PSU	220-240V	x	9,2	54	85	7.2	0.96	II
Patio 68 fix LV 35° 525 Lm 3000K Triac dim	Incl. PSU	220-240V	x	9,2	57	85	7.3	0.96	II
Patio 68 fix LV 35° 550 Lm 4000K Triac dim	Incl. PSU	220-240V	x	9,2	60	85	7.5	0.96	II
Patio 68 fix LV 60° 550 Lm 2700K Triac dim	Incl. PSU	220-240V	x	9,2	60	85	17.5	0.96	II
Patio 68 fix LV 60° 600 Lm 3000K Triac dim	Incl. PSU	220-240V	x	9,2	65	85	17.8	0.96	II
Patio 68 fix LV 60° 650 Lm 4000K Triac dim	Incl. PSU	220-240V	x	9,2	71	85	18.0	0.96	II
Patio 68 fix LV 700mA 35° 500 Lm 2700K Dim	Incl. conn.box	700mA	11,5	8,0	63	85	7.2	x	III
Patio 68 fix LV 700mA 35° 525 Lm 3000K Dim	Incl. conn.box	700mA	11,5	8,0	66	85	7.3	x	III
Patio 68 fix LV 700mA 35° 550 Lm 4000K Dim	Incl. conn.box	700mA	11,5	8,0	69	85	7.5	x	III
Patio 68 fix LV 700mA 60° 550 Lm 2700K Dim	Incl. conn.box	700mA	11,5	8,0	69	85	17.5	x	III
Patio 68 fix LV 700mA 60° 600 Lm 3000K Dim	Incl. conn.box	700mA	11,5	8,0	75	85	17.8	x	III
Patio 68 fix LV 700mA 60° 650 Lm 4000K Dim	Incl. conn.box	700mA	11,5	8,0	81	85	18.0	x	III

All values are measured at 230V (+/- 7%).



PATIO 68 (FIXED) - DOWNLIGHTS



Downlights

-
Patio 68



NEW

Patio 68 (adjustable)



↔
ø 90 mm

PATIO 68 (ADJUSTABLE) - DOWNLIGHTS

COLOURS

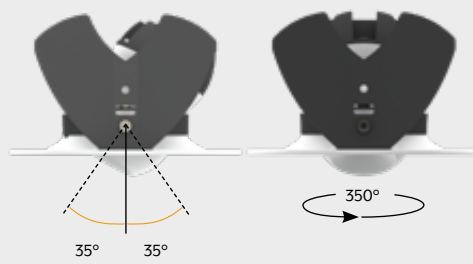


Matt white
RAL 9016



Matt black
RAL 9005

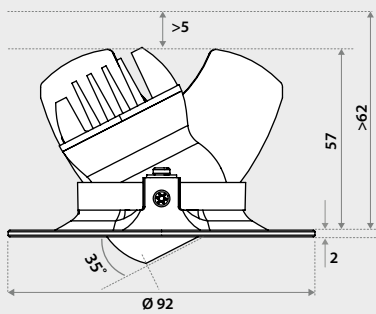
ADJUSTMENT OPTIONS



SPRINGS

No other springs available.

DIMENSIONS



Incl. PSU Triac dim (220-240V)

PSU Triac dim	102x38x21 mm
PSU 1-10V & Push	67x50x22 mm



Incl. conn.box (500mA)*

For installation to a central power supply.

Connection box	80x28x26 mm
Cable	150 mm



SPECIFICATIONS

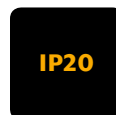
Colour(s)	Matt white RAL 9016 Matt black RAL 9005
Beam angle (FWHM)	35° (45° FWTM) / 60° (80° FWTM)
Fixture material	Housing: Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK10
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

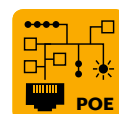
EU 874/2012

*See page 184-185 for more information about power supplies.



ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Patio 68 adj LV 35° 350 Lm 2700K Triac dim	100603445	100603427
Patio 68 adj LV 35° 375 Lm 3000K Triac dim	100603447	100603429
Patio 68 adj LV 35° 400 Lm 4000K Triac dim	100603449	100603431
Patio 68 adj LV 60° 400 Lm 2700K Triac dim	100603451	100603433
Patio 68 adj LV 60° 425 Lm 3000K Triac dim	100603453	100603435
Patio 68 adj LV 60° 450 Lm 4000K Triac dim	100603455	100603437
Patio 68 adj LV 35° 350 Lm 2700K 1-10V & Push	100603456	100603438
Patio 68 adj LV 35° 375 Lm 3000K 1-10V & Push	100603457	100603439
Patio 68 adj LV 35° 400 Lm 4000K 1-10V & Push	100603458	100603440
Patio 68 adj LV 60° 400 Lm 2700K 1-10V & Push	100603459	100603441
Patio 68 adj LV 60° 425 Lm 3000K 1-10V & Push	100603460	100603442
Patio 68 adj LV 60° 450 Lm 4000K 1-10V & Push	100603461	100603443
Patio 68 adj LV 500mA 35° 350 Lm 2700K Dim	100603444	100603426
Patio 68 adj LV 500mA 35° 375 Lm 3000K Dim	100603446	100603428
Patio 68 adj LV 500mA 35° 400 Lm 4000K Dim	100603448	100603430
Patio 68 adj LV 500mA 60° 400 Lm 2700K Dim	100603450	100603432
Patio 68 adj LV 500mA 60° 425 Lm 3000K Dim	100603452	100603434
Patio 68 adj LV 500mA 60° 450 Lm 4000K Dim	100603454	100603436



Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Patio 68 adj LV 35° 350 Lm 2700K Triac dim	Incl. PSU	220-240V	x	6,6	53	85	7.2	0.96	II
Patio 68 adj LV 35° 375 Lm 3000K Triac dim	Incl. PSU	220-240V	x	6,6	57	85	7.3	0.96	II
Patio 68 adj LV 35° 400 Lm 4000K Triac dim	Incl. PSU	220-240V	x	6,6	61	85	7.5	0.96	II
Patio 68 adj LV 60° 400 Lm 2700K Triac dim	Incl. PSU	220-240V	x	6,6	61	85	16.3	0.96	II
Patio 68 adj LV 60° 425 Lm 3000K Triac dim	Incl. PSU	220-240V	x	6,6	64	85	16.6	0.96	II
Patio 68 adj LV 60° 450 Lm 4000K Triac dim	Incl. PSU	220-240V	x	6,6	68	85	16.8	0.96	II
Patio 68 adj LV 35° 350 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	x	6,6	53	85	7.2	0.6	II
Patio 68 adj LV 35° 375 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	x	6,6	57	85	7.3	0.6	II
Patio 68 adj LV 35° 400 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	x	6,6	61	85	7.5	0.6	II
Patio 68 adj LV 60° 400 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	x	6,6	61	85	16.3	0.6	II
Patio 68 adj LV 60° 425 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	x	6,6	64	85	16.6	0.6	II
Patio 68 adj LV 60° 450 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	x	6,6	68	85	16.8	0.6	II
Patio 68 adj LV 500mA 35° 350 Lm 2700K Dim	Incl. conn.box	500mA	11,4	5,7	61	85	7.2	x	III
Patio 68 adj LV 500mA 35° 375 Lm 3000K Dim	Incl. conn.box	500mA	11,4	5,7	66	85	7.3	x	III
Patio 68 adj LV 500mA 35° 400 Lm 4000K Dim	Incl. conn.box	500mA	11,4	5,7	70	85	7.5	x	III
Patio 68 adj LV 500mA 60° 400 Lm 2700K Dim	Incl. conn.box	500mA	11,4	5,7	70	85	16.3	x	III
Patio 68 adj LV 500mA 60° 425 Lm 3000K Dim	Incl. conn.box	500mA	11,4	5,7	75	85	16.6	x	III
Patio 68 adj LV 500mA 60° 450 Lm 4000K Dim	Incl. conn.box	500mA	11,4	5,7	79	85	16.8	x	III

SPECIFICATIONS

Colour(s)	Housing / Reflector ring
	Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	40° (65° FWTM)
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

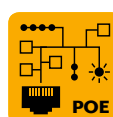
*See page 184-185 for more information about power supplies.



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



ITEM SPECIFICATIONS

Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
Omnia 35 LV 375 Lm 2700K No dim	100610188	100610200	100610206	100610194	100610212	100610224	100610230	100610218
Omnia 35 LV 400 Lm 3000K No dim	100610192	100610204	100610210	100610198	100610216	100610228	100610234	100610222
Omnia 35 LV 425 Lm 4000K No dim	100610190	100610202	100610208	100610196	100610214	100610226	100610232	100610220
Omnia 35 LV 24Vdc 375 Lm 2700K No dim	100610187	100610199	100610205	100610193	100610211	100610223	100610229	100610217
Omnia 35 LV 24Vdc 400 Lm 3000K No dim	100610189	100610203	100610207	100610195	100610213	100610225	100610231	100610219
Omnia 35 LV 24Vdc 425 Lm 4000K No dim	100610191	100610201	100610209	100610197	100610215	100610227	100610233	100610221
Omnia 35 LV 350mA 375 Lm 2700K Dim	100610713	100610716	100610710	100610707	100610701	100610704	100610698	100610695
Omnia 35 LV 350mA 400 Lm 3000K Dim	100610714	100610718	100610711	100610708	100610702	100610705	100610699	100610696
Omnia 35 LV 350mA 425 Lm 4000K Dim	100610715	100610717	100610712	100610709	100610703	100610706	100610700	100610697

Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Omnia 35 LV 375 Lm 2700K No dim	Incl. PSU	100-240V	x	5,7	66	82	14,4	0,6	II
Omnia 35 LV 400 Lm 3000K No dim	Incl. PSU	100-240V	x	5,7	70	82	14,4	0,6	II
Omnia 35 LV 425 Lm 4000K No dim	Incl. PSU	100-240V	x	5,7	75	82	14,4	0,6	II
Omnia 35 LV 24Vdc 375 Lm 2700K No dim	Incl. conn.box	24Vdc	x	4,5	83	82	14,4	x	III
Omnia 35 LV 24Vdc 400 Lm 3000K No dim	Incl. conn.box	24Vdc	x	4,5	89	82	14,4	x	III
Omnia 35 LV 24Vdc 425 Lm 4000K No dim	Incl. conn.box	24Vdc	x	4,5	94	82	14,4	x	III
Omnia 35 LV 350mA 375 Lm 2700K Dim	Incl. conn.box	350mA	11,9	4,5	83	82	14,4	x	III
Omnia 35 LV 350mA 400 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	89	82	14,4	x	III
Omnia 35 LV 350mA 425 Lm 4000K Dim	Incl. conn.box	350mA	11,9	4,5	94	82	14,4	x	III

All values are measured at 230V (+/- 7%).



NEW

Omnia 50



↔
ø 55 mm

OMNIA 50 (ADJUSTABLE) - DOWNLIGHTS

COLOURS



Matt black
RAL 9005



Matt white
RAL 9016

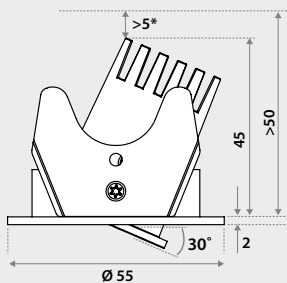


Gold Silver Copper Black

SPRINGS

No other springs available.

DIMENSIONS



Incl. PSU Triac dim (220-240V)

PSU Triac dim 102x38x21 mm

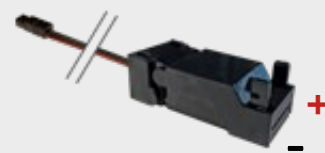


Incl. conn.box (24Vdc / 350mA)*

For installation to a central power supply.

Connection box 80x28x26 mm

Cable 150 mm



* This distance is necessary because of the height of the connection box (80 mm). For purely heat reasons just 5 mm is sufficient.

SPECIFICATIONS

Colour(s)	Housing / Reflector ring
	Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	40° (65° FWTM)
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

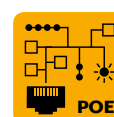
The lamps cannot be changed in the luminaire.

EU 874/2012

*See page 184-185 for more information about power supplies.



Only for plasterboard ceilings or similar harder materials.



ITEM SPECIFICATIONS

Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
Omnia 50 adj LV 375 Lm 2700K Triac dim	100610833	100610836	100610830	100610827	100610821	100610824	100610818	100610815
Omnia 50 adj LV 400 Lm 3000K Triac dim	100610834	100610837	100610831	100610828	100610822	100610825	100610819	100610816
Omnia 50 adj LV 425 Lm 4000K Triac dim	100610835	100610838	100610832	100610829	100610823	100610826	100610820	100610817
Omnia 50 adj LV 24Vdc 375 Lm 2700K No dim	100610779	100610785	100610773	100610767	100610755	100610761	100610749	100610743
Omnia 50 adj LV 24Vdc 400 Lm 3000K No dim	100610781	100610787	100610775	100610769	100610757	100610763	100610751	100610745
Omnia 50 adj LV 24Vdc 425 Lm 4000K No dim	100610780	100610786	100610774	100610768	100610756	100610762	100610750	100610744
Omnia 50 adj LV 350mA 375 Lm 2700K Dim	100610782	100610788	100610776	100610770	100610758	100610764	100610752	100610746
Omnia 50 adj LV 350mA 400 Lm 3000K Dim	100610784	100610790	100610778	100610772	100610760	100610766	100610754	100610748
Omnia 50 adj LV 350mA 425 Lm 4000K Dim	100610783	100610789	100610777	100610771	100610759	100610765	100610753	100610747

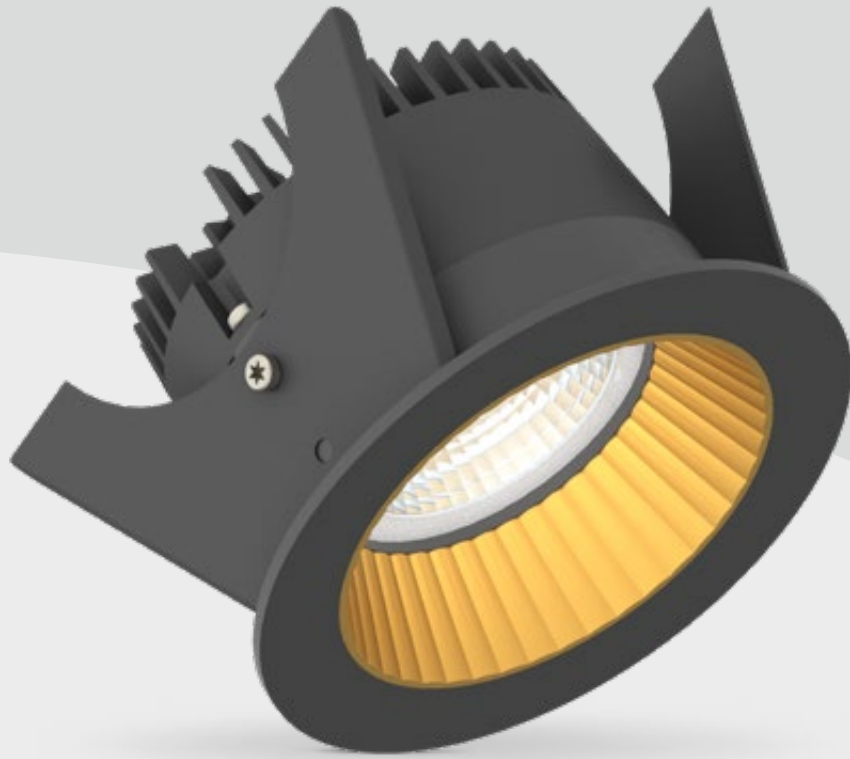
Description	Type	Input	Vf	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Omnia 50 adj LV 375 Lm 2700K Triac dim	Incl. PSU	220-240V	x	5,7	66	82	14.4	0.96	II
Omnia 50 adj LV 400 Lm 3000K Triac dim	Incl. PSU	220-240V	x	5,7	70	82	14.4	0.96	II
Omnia 50 adj LV 425 Lm 4000K Triac dim	Incl. PSU	220-240V	x	5,7	75	82	14.4	0.96	II
Omnia 50 adj LV 24Vdc 375 Lm 2700K No dim	Incl. conn.box	24Vdc	x	4,5	83	82	14.4	x	III
Omnia 50 adj LV 24Vdc 400 Lm 3000K No dim	Incl. conn.box	24Vdc	x	4,5	89	82	14.4	x	III
Omnia 50 adj LV 24Vdc 425 Lm 4000K No dim	Incl. conn.box	24Vdc	x	4,5	94	82	14.4	x	III
Omnia 50 adj LV 350mA 375 Lm 2700K Dim	Incl. conn.box	350mA	11,9	4,5	83	82	14.4	x	III
Omnia 50 adj LV 350mA 400 Lm 3000K Dim	Incl. conn.box	350mA	11,9	4,5	89	82	14.4	x	III
Omnia 50 adj LV 350mA 425 Lm 4000K Dim	Incl. conn.box	350mA	11,9	4,5	94	82	14.4	x	III

All values are measured at 230V (+/- 7%).



Omnia 75

NEW



↔
ø 90 mm

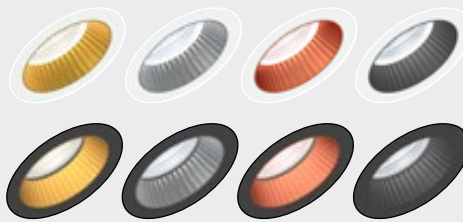
COLOURS



Matt black
RAL 9005



Matt white
RAL 9016



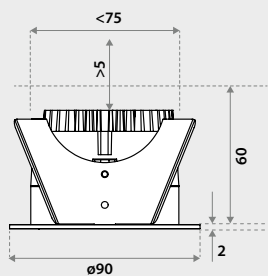
Gold

Silver

Copper

Black

DIMENSIONS



SPRINGS

No other springs
available.

SPECIFICATIONS

Colour(s)	Housing / Reflector ring
	Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	24° / 60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



REPLACEMENT



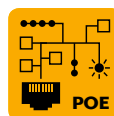
WARRANTY



UGR <19



NL DUTCH ORIGIN



POE



1-10V CONTROLLED



ITEM SPECIFICATIONS

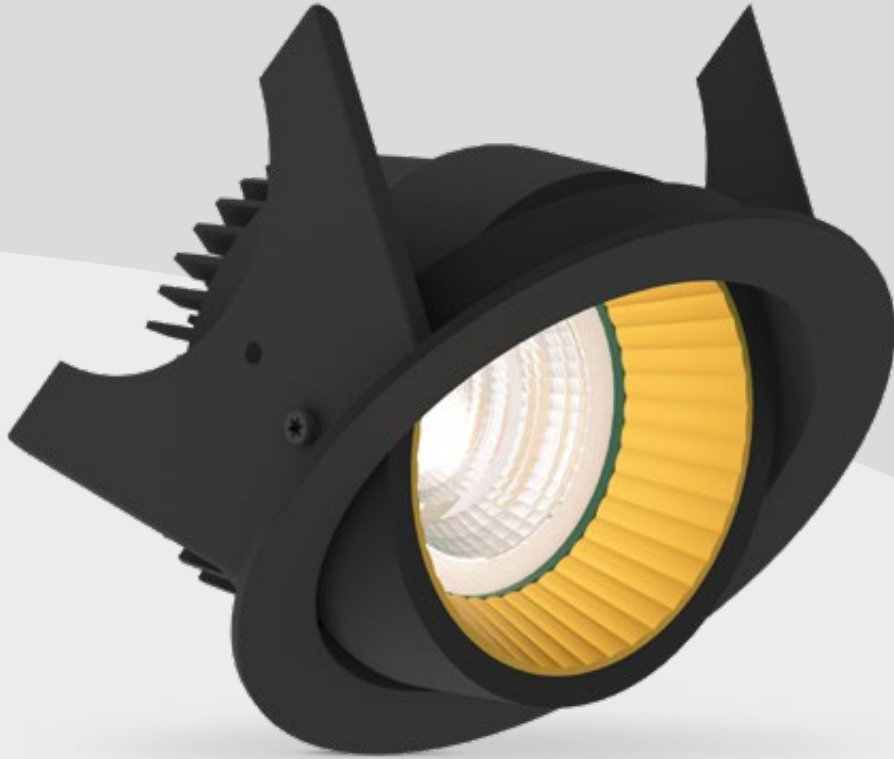
Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
Omnia 75 HV-IC 24° 700 Lm 2700K Triac dim	100610863	100610867	100610859	100610855	100610847	100610851	100610843	100610839
Omnia 75 HV-IC 24° 750 Lm 3000K Triac dim	100610864	100610868	100610860	100610856	100610848	100610852	100610844	100610840
Omnia 75 HV-IC 60° 700 Lm 2700K Triac dim	100610865	100610869	100610861	100610857	100610849	100610853	100610845	100610841
Omnia 75 HV-IC 60° 750 Lm 3000K Triac dim	100610866	100610870	100610862	100610858	100610850	100610854	100610846	100610842

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Omnia 75 HV-IC 24° 700 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	9,0	78	93	17,3	0,98	I
Omnia 75 HV-IC 24° 750 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	9,0	83	93	17,8	0,98	I
Omnia 75 HV-IC 60° 700 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	9,0	78	93	18,2	0,98	I
Omnia 75 HV-IC 60° 750 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	9,0	83	93	18,8	0,98	I

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

NEW

Omnia 90



↔
ø 105 mm

OMNIA 90 (ADJUSTABLE) - DOWNLIGHTS

COLOURS



Matt black
RAL 9005



Matt white
RAL 9016



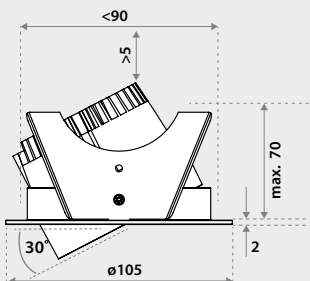
Gold

Silver

Copper

Black

DIMENSIONS



SPRINGS

No other springs available.

SPECIFICATIONS

Colour(s)	Housing / Reflector ring
	Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	24° / 60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



For soft ceiling tiles we recommend using a wooden plate or a ceiling ring on the reverse side of the tile.



REPLACEMENT



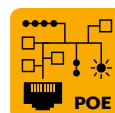
WARRANTY



UGR
<19



NL
DUTCH ORIGIN



POE



1-10V
CONTROLLED



ITEM SPECIFICATIONS

Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
Omnia 90 HV-IC 24° 700 Lm 2700K Triac dim	100610897	100610901	100610893	100610889	100610881	100610885	100610877	100610873
Omnia 90 HV-IC 24° 750 Lm 3000K Triac dim	100610898	100610902	100610894	100610890	100610882	100610886	100610878	100610874
Omnia 90 HV-IC 60° 700 Lm 2700K Triac dim	100610895	100610899	100610891	100610887	100610879	100610883	100610875	100610871
Omnia 90 HV-IC 60° 750 Lm 3000K Triac dim	100610896	100610900	100610892	100610888	100610880	100610884	100610876	100610872

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Omnia 90 HV-IC 24° 700 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	9,0	78	93	17,3	0,98	I
Omnia 90 HV-IC 24° 750 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	9,0	83	93	17,8	0,98	I
Omnia 90 HV-IC 60° 700 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	9,0	78	93	18,2	0,98	I
Omnia 90 HV-IC 60° 750 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	9,0	83	93	18,8	0,98	I

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Fino 75 HV 400 Lm 3000K Triac dim*	100604210	100604195	100605580
Fino 75 HV-IC 600 Lm 2700K Triac dim	100604259	100604235	100605628
Fino 75 HV-IC 600 Lm 3000K Triac dim	100604264	100604240	100605633
Fino 75 HV-IC 600 Lm 4000K Triac dim	100604269	100604245	100605638
Fino 75 HV-IC 900 Lm 2700K Triac dim	100605751	100605736	100605721
Fino 75 HV-IC 900 Lm 3000K Triac dim	100605753	100605738	100605723
Fino 75 HV-IC 900 Lm 4000K Triac dim	100605755	100605740	100605725
Fino 75 HV-WD 900Lm 3000-2200K Triac dim	100607572	100607565	100607558
Fino 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608083	100608081	100608079
Fino 75 LV/RGB 1000 Lm 1800-4000K	100608082	100608080	100608078
Fino 75 SLM 1000 Lm 2700K No dim	100605711	100605696	100605681
Fino 75 SLM 1000 Lm 2700K 1-10V & Push	100604300	100604282	100605660
Fino 75 SLM 1000 Lm 2700K DALI	100604303	100604285	100605666
Fino 75 SLM 1250 Lm 3000K No dim	100605712	100605697	100605682
Fino 75 SLM 1250 Lm 3000K 1-10V & Push	100604301	100604283	100605662
Fino 75 SLM 1250 Lm 3000K DALI	100604304	100604286	100605667
Fino 75 SLM 1500 Lm 4000K No dim	100605713	100605698	100605683
Fino 75 SLM 1500 Lm 4000K 1-10V & Push	100603135	100604284	100605664
Fino 75 SLM 1500 Lm 4000K DALI	100604305	100604287	100605668

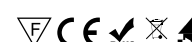


Plug & Play Solutions prefab see page 188

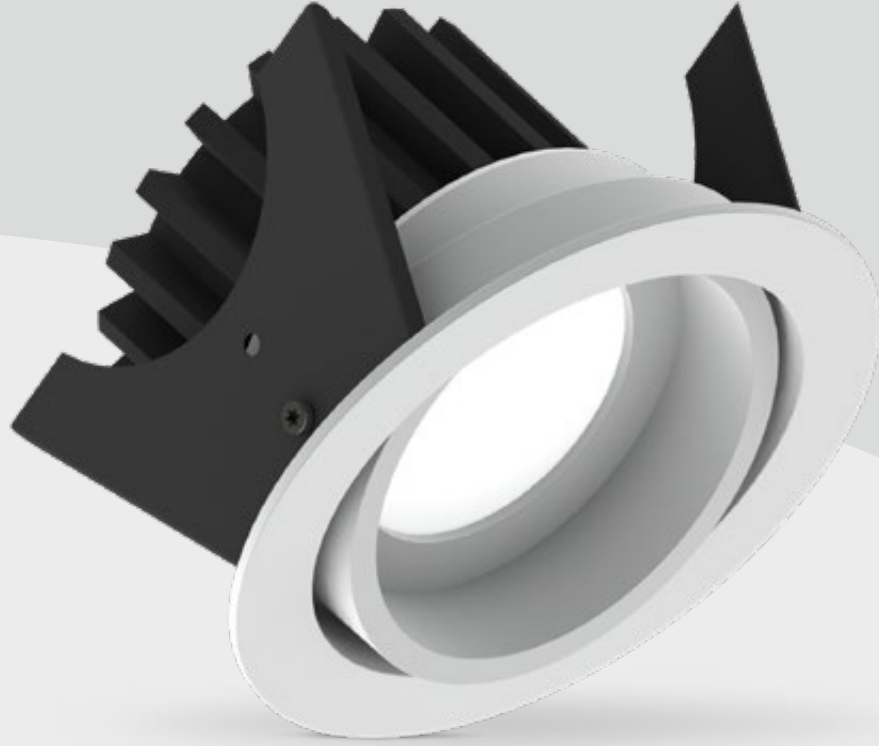


Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Fino 75 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Fino 75 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Fino 75 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Fino 75 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Fino 75 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Fino 75 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Fino 75 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Fino 75 HV-WD 900Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Fino 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Fino 75 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Fino 75 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Fino 75 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Fino 75 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Fino 75 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Fino 75 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Fino 75 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Fino 75 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Fino 75 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Fino 75 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see).



Fino 90



↔
ø 105 mm

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006



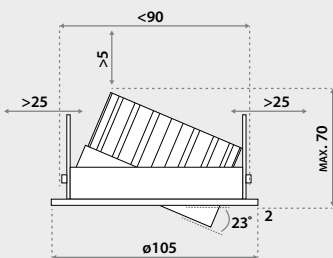
Matt black
RAL 9005

SPRINGS



Standard with concrete-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



CHOOSE YOUR SLM LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			2700K	3000K	4000K	2700K	3000K	4000K
<i>Special request</i>	350	9,6	650	800	950	68	84	99
<i>Special request</i>	500	14,1	900	1100	1350	64	78	96
Standard	550	16,0	1000	1250	1500	63	78	94

SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Fino 90 HV 400 Lm 3000K Triac dim*	100610965	100610966	100610967
Fino 90 HV-IC 600 Lm 2700K Triac dim	100604367	100604343	100605811
Fino 90 HV-IC 600 Lm 3000K Triac dim	100604372	100604348	100605816
Fino 90 HV-IC 600 Lm 4000K Triac dim	100604377	100604353	100605821
Fino 90 HV-IC 900 Lm 2700K Triac dim	100605934	100605919	100605904
Fino 90 HV-IC 900 Lm 3000K Triac dim	100605936	100605921	100605906
Fino 90 HV-IC 900 Lm 4000K Triac dim	100605938	100605923	100605908
Fino 90 HV-WD 900Lm 3000-2200K Triac dim	100607593	100607586	100607579
Fino 90 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608101	100608099	100608097
Fino 90 LV/RGB 1000 Lm 1800-4000K	100608100	100608098	100608096
Fino 90 SLM 1000 Lm 2700K No dim	100605894	100605879	100605864
Fino 90 SLM 1000 Lm 2700K 1-10V & Push	100604408	100604390	100605843
Fino 90 SLM 1000 Lm 2700K DALI	100604411	100604393	100605849
Fino 90 SLM 1250 Lm 3000K No dim	100605895	100605880	100605865
Fino 90 SLM 1250 Lm 3000K 1-10V & Push	100604409	100604391	100605845
Fino 90 SLM 1250 Lm 3000K DALI	100604412	100604394	100605850
Fino 90 SLM 1500 Lm 4000K No dim	100605896	100605881	100605866
Fino 90 SLM 1500 Lm 4000K 1-10V & Push	100604410	100604392	100605847
Fino 90 SLM 1500 Lm 4000K DALI	100604413	100604395	100605851



Plug & Play Solutions prefab see page 188



Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Fino 90 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Fino 90 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Fino 90 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Fino 90 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Fino 90 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Fino 90 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Fino 90 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Fino 90 HV-WD 900Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Fino 90 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Fino 90 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Fino 90 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Fino 90 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Fino 90 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Fino 90 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Fino 90 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Fino 90 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Fino 90 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Fino 90 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Fino 90 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).



SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Cosmos 75 HV 400 Lm 3000K Triac dim*	100604669	100604661	100606549
Cosmos 75 HV-IC 600 Lm 2700K Triac dim	100604707	100604685	100606695
Cosmos 75 HV-IC 600 Lm 3000K Triac dim	100604712	100604690	100606697
Cosmos 75 HV-IC 600 Lm 4000K Triac dim	100604717	100604695	100606699
Cosmos 75 HV-IC 900 Lm 2700K Triac dim	100606801	100606786	100606771
Cosmos 75 HV-IC 900 Lm 3000K Triac dim	100606803	100606788	100606773
Cosmos 75 HV-IC 900 Lm 4000K Triac dim	100606805	100606790	100606775
Cosmos 75 HV-WD 900Lm 3000-2200K Triac dim	100607657	100607650	100607643
Cosmos 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608267	100608261	100608255
Cosmos 75 LV/RGB 1000 Lm 1800-4000K	100608266	100608260	100608254
Cosmos 75 SLM 1000 Lm 2700K No dim	100606761	100606749	100606733
Cosmos 75 SLM 1000 Lm 2700K 1-10V & Push	100604746	100604728	100606715
Cosmos 75 SLM 1000 Lm 2700K DALI	100604749	100604731	100606721
Cosmos 75 SLM 1250 Lm 3000K No dim	100606762	100606750	100606734
Cosmos 75 SLM 1250 Lm 3000K 1-10V & Push	100604747	100604729	100606717
Cosmos 75 SLM 1250 Lm 3000K DALI	100604750	100604732	100606722
Cosmos 75 SLM 1500 Lm 4000K No dim	100606763	100606751	100606735
Cosmos 75 SLM 1500 Lm 4000K 1-10V & Push	100604748	100604730	100606719
Cosmos 75 SLM 1500 Lm 4000K DALI	100604751	100604733	100606723



Plug & Play Solutions prefab see page 188



Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Cosmos 75 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Cosmos 75 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Cosmos 75 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Cosmos 75 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Cosmos 75 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Cosmos 75 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Cosmos 75 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Cosmos 75 HV-WD 900Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Cosmos 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Cosmos 75 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Cosmos 75 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Cosmos 75 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Cosmos 75 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Cosmos 75 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Cosmos 75 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Cosmos 75 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Cosmos 75 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Cosmos 75 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Cosmos 75 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).



COSMOS 75 (FIXED) - DOWNLIGHTS

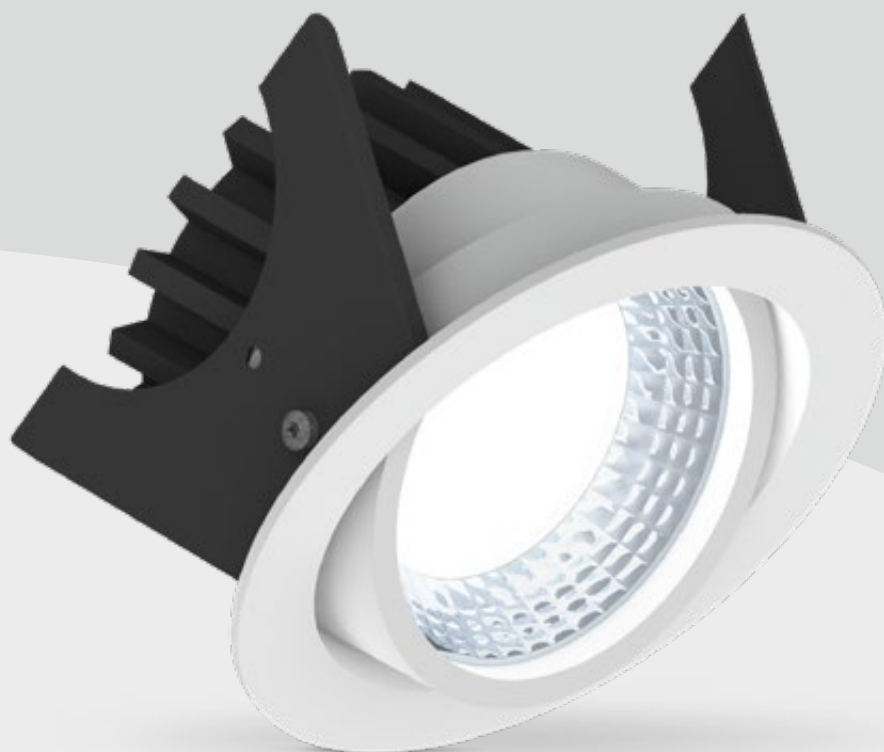




Downlights

-
Cosmos 75

Cosmos 90



ø 105 mm

COSMOS 90 (ADJUSTABLE) - DOWNLIGHTS

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006



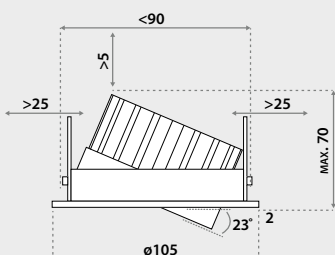
Matt black
RAL 9005

SPRINGS



Standard with concrete-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



CHOOSE YOUR SLM LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			2700K	3000K	4000K	2700K	3000K	4000K
<i>Special request</i>	350	9,6	650	800	950	68	84	99
<i>Special request</i>	500	14,1	900	1100	1350	64	78	96
Standard	550	16,0	1000	1250	1500	63	78	94

SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Cosmos 90 HV 400 Lm 3000K Triac dim*	100610968	100610969	100610970
Cosmos 90 HV-IC 600 Lm 2700K Triac dim	100604809	100604787	100606852
Cosmos 90 HV-IC 600 Lm 3000K Triac dim	100604814	100604792	100606854
Cosmos 90 HV-IC 600 Lm 4000K Triac dim	100604819	100604797	100606856
Cosmos 90 HV-IC 900 Lm 2700K Triac dim	100606969	100606954	100606939
Cosmos 90 HV-IC 900 Lm 3000K Triac dim	100606971	100606956	100606941
Cosmos 90 HV-IC 900 Lm 4000K Triac dim	100606973	100606958	100606943
Cosmos 90 HV-WD adj 900Lm 3000-2200K Triac dim	100607677	100607670	100607663
Cosmos 90 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608285	100608279	100608273
Cosmos 90 LV/RGB 1000 Lm 1800-4000K	100608284	100608278	100608272
Cosmos 90 SLM 1000 Lm 2700K No dim	100606929	100606914	100606899
Cosmos 90 SLM 1000 Lm 2700K 1-10V & Push	100604848	100604830	100606878
Cosmos 90 SLM 1000 Lm 2700K DALI	100604851	100604833	100606884
Cosmos 90 SLM 1250 Lm 3000K No dim	100606930	100606915	100606900
Cosmos 90 SLM 1250 Lm 3000K 1-10V & Push	100604849	100604831	100606880
Cosmos 90 SLM 1250 Lm 3000K DALI	100604852	100604834	100606885
Cosmos 90 SLM 1500 Lm 4000K No dim	100606931	100606916	100606901
Cosmos 90 SLM 1500 Lm 4000K 1-10V & Push	100604850	100604832	100606882
Cosmos 90 SLM 1500 Lm 4000K DALI	100604853	100604835	100606886



Plug & Play Solutions prefab see page 188

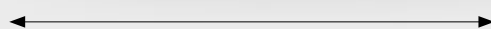
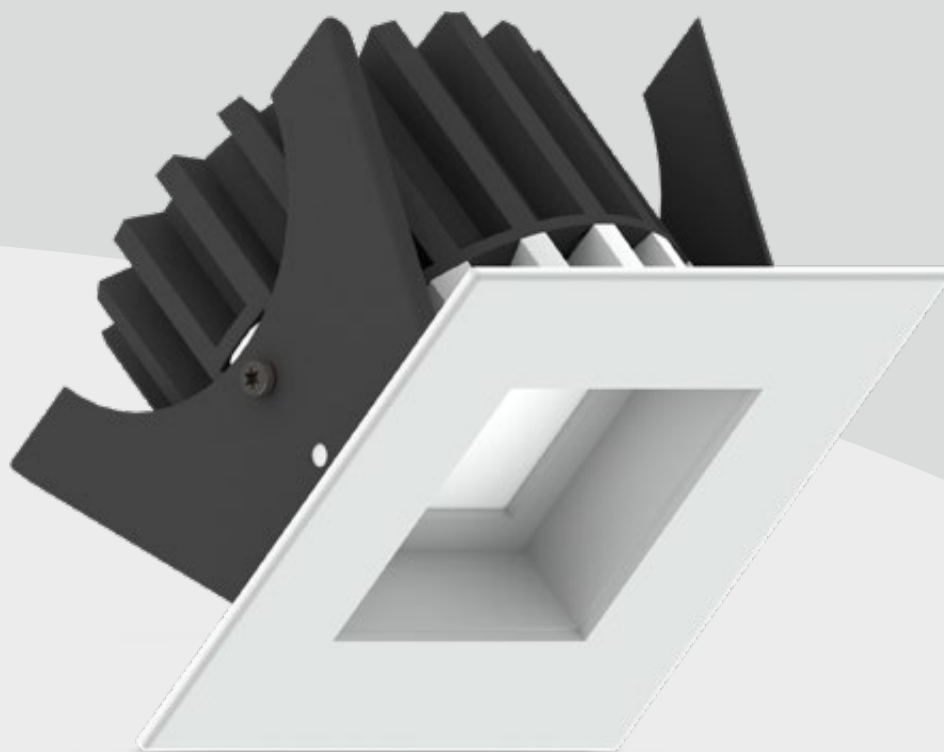


Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Cosmos 90 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Cosmos 90 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Cosmos 90 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Cosmos 90 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Cosmos 90 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Cosmos 90 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Cosmos 90 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Cosmos 90 HV-WD adj 900Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Cosmos 90 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Cosmos 90 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Cosmos 90 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Cosmos 90 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Cosmos 90 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Cosmos 90 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Cosmos 90 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Cosmos 90 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Cosmos 90 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Cosmos 90 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Cosmos 90 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).



Quadrato 75



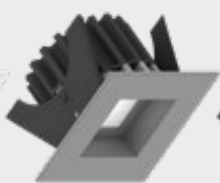
90 x 90 mm

QUADRATO 75 (FIXED) - DOWNLIGHTS

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006



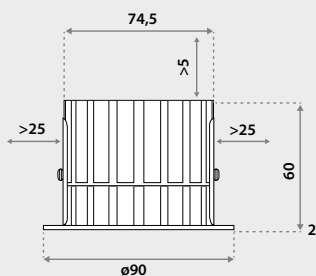
Matt black
RAL 9005

SPRINGS



Standard with concrete-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



CHOOSE YOUR SLM LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			2700K	3000K	4000K	2700K	3000K	4000K
<i>Special request</i>	350	9,6	650	800	950	68	84	99
<i>Special request</i>	500	14,1	900	1100	1350	64	78	96
Standard	550	16,0	1000	1250	1500	63	78	94

SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Quadrato 75 HV 400 Lm 3000K Triac dim*	100604494	100604479	100610971
Quadrato 75 HV-IC 600 Lm 2700K Triac dim	100604541	100604519	100610972
Quadrato 75 HV-IC 600 Lm 3000K Triac dim	100604546	100604524	100610973
Quadrato 75 HV-IC 600 Lm 4000K Triac dim	100604551	100604529	100610974
Quadrato 75 HV-IC 900 Lm 2700K Triac dim	100606182	100606167	100610975
Quadrato 75 HV-IC 900 Lm 3000K Triac dim	100606184	100606169	100610976
Quadrato 75 HV-IC 900 Lm 4000K Triac dim	100606186	100606171	100610977
Quadrato 75 HV-WD 900Lm 3000-2200K Triac dim	100607614	100607607	100610978
Quadrato 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608062	100608060	100608058
Quadrato 75 LV/RGB 1000 Lm 1800-4000K	100608061	100608059	100608057
Quadrato 75 SLM 1000 Lm 2700K No dim	100606142	100606127	100606112
Quadrato 75 SLM 1000 Lm 2700K 1-10V & Push	100604580	100604562	100606091
Quadrato 75 SLM 1000 Lm 2700K DALI	100604583	100604565	100606097
Quadrato 75 SLM 1250 Lm 3000K No dim	100606143	100606128	100606113
Quadrato 75 SLM 1250 Lm 3000K 1-10V & Push	100604581	100604563	100606093
Quadrato 75 SLM 1250 Lm 3000K DALI	100604584	100604566	100606098
Quadrato 75 SLM 1500 Lm 4000K No dim	100606144	100606129	100606114
Quadrato 75 SLM 1500 Lm 4000K 1-10V & Push	100603134	100604564	100606095
Quadrato 75 SLM 1500 Lm 4000K DALI	100604585	100604567	100606099

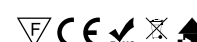


Plug & Play Solutions prefab see page 188



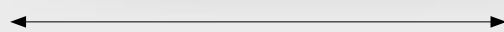
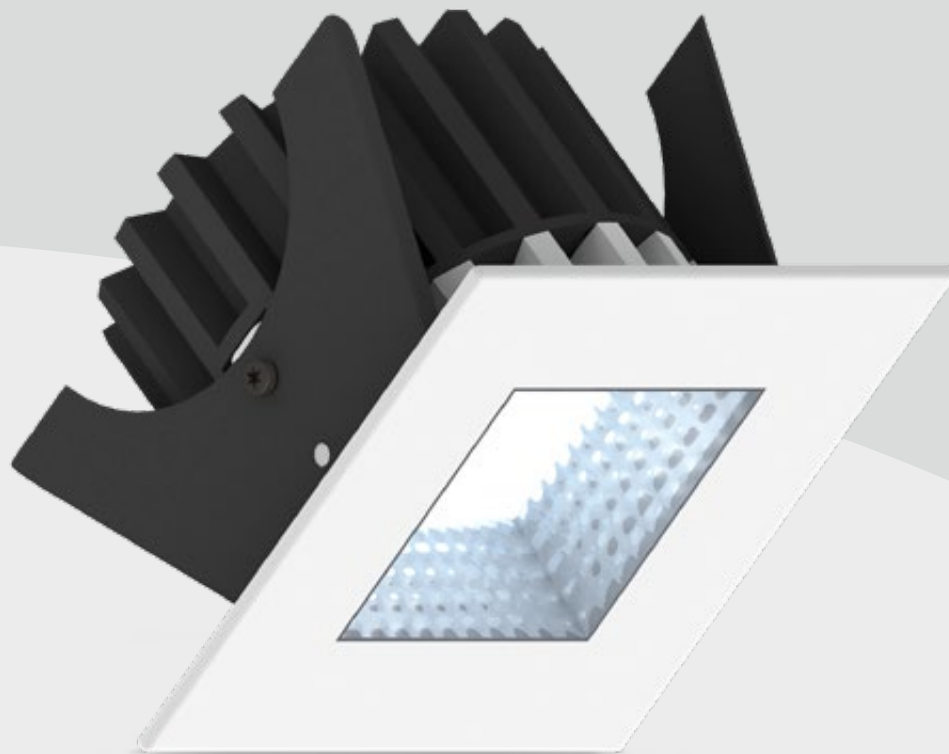
Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Quadrato 75 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Quadrato 75 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Quadrato 75 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Quadrato 75 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Quadrato 75 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Quadrato 75 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Quadrato 75 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Quadrato 75 HV-WD 900Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Quadrato 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Quadrato 75 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Quadrato 75 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Quadrato 75 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Quadrato 75 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Quadrato 75 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Quadrato 75 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Quadrato 75 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Quadrato 75 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Quadrato 75 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Quadrato 75 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).



Quote 75

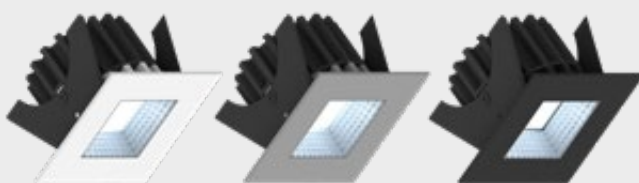
NEW



90 x 90 mm

QUOTE 75 (FIXED) - DOWNLIGHTS

COLOURS



Matt white
RAL 9016

Matt grey
RAL 9006

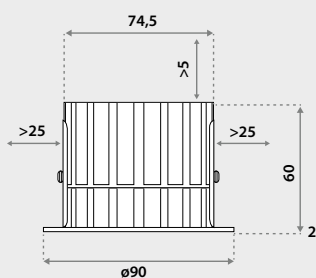
Matt black
RAL 9005

SPRINGS



Standard with concrete-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



CHOOSE YOUR SLM LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			2700K	3000K	4000K	2700K	3000K	4000K
Special request	350	9,6	650	800	950	68	84	99
Special request	500	14,1	900	1100	1350	64	78	96
Standard	550	16,0	1000	1250	1500	63	78	94

SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Quote 75 HV 400 Lm 3000K Triac dim*	100609898	100609892	100609886
Quote 75 HV-IC 600 Lm 2700K Triac dim	100609962	100609944	100609926
Quote 75 HV-IC 600 Lm 3000K Triac dim	100609964	100609946	100609928
Quote 75 HV-IC 600 Lm 4000K Triac dim	100609966	100609948	100609930
Quote 75 HV-IC 900 Lm 2700K Triac dim	100610124	100610106	100610088
Quote 75 HV-IC 900 Lm 3000K Triac dim	100610126	100610108	100610090
Quote 75 HV-IC 900 Lm 4000K Triac dim	100610128	100610110	100610092
Quote 75 HV-WD 900Lm 3000-2200K Triac dim	100609880	100609874	100609868
Quote 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	100609918	100609912	100609906
Quote 75 LV/RGB 1000 Lm 1800-4000K	100609917	100609911	100609905
Quote 75 SLM 1000 Lm 2700K No dim	100610075	100610039	100610003
Quote 75 SLM 1000 Lm 2700K 1-10V & Push	100610054	100610018	100609982
Quote 75 SLM 1000 Lm 2700K DALI	100610060	100610024	100609988
Quote 75 SLM 1250 Lm 3000K No dim	100610076	100610040	100610004
Quote 75 SLM 1250 Lm 3000K 1-10V & Push	100610056	100610020	100609984
Quote 75 SLM 1250 Lm 3000K DALI	100610061	100610025	100609989
Quote 75 SLM 1500 Lm 4000K No dim	100610077	100610041	100610005
Quote 75 SLM 1500 Lm 4000K 1-10V & Push	100610058	100610022	100609986
Quote 75 SLM 1500 Lm 4000K DALI	100610062	100610026	100609990



Plug & Play Solutions prefab see page 188



Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Quote 75 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Quote 75 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Quote 75 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Quote 75 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Quote 75 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Quote 75 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Quote 75 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Quote 75 HV-WD 900Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Quote 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Quote 75 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Quote 75 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Quote 75 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Quote 75 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Quote 75 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Quote 75 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Quote 75 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Quote 75 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Quote 75 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Quote 75 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).



SPECIFICATIONS



Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Only for plasterboard ceilings or similar hard materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Luna 75 HV 400 Lm 3000K Triac dim*	100604604	100606355
Luna 75 HV-IC 600 Lm 2700K Triac dim	100610979	100610984
Luna 75 HV-IC 600 Lm 3000K Triac dim	100604628	100606454
Luna 75 HV-IC 600 Lm 4000K Triac dim	100604633	100606456
Luna 75 HV-IC 900 Lm 2700K Triac dim	100606537	100606522
Luna 75 HV-IC 900 Lm 3000K Triac dim	100606539	100606524
Luna 75 HV-IC 900 Lm 4000K Triac dim	100606541	100606526
Luna 75 HV-WD 900 Lm 3000-2200K Triac dim	100607632	100607625
Luna 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608125	100608123
Luna 75 LV/RGB 1000 Lm 1800-4000K	100608124	100608122
Luna 75 SLM 1000 Lm 2700K No dim	100606512	100606493
Luna 75 SLM 1000 Lm 2700K 1-10V & Push	100610980	100610985
Luna 75 SLM 1000 Lm 2700K DALI	100610981	100610986
Luna 75 SLM 1250 Lm 3000K No dim	100610982	100610987
Luna 75 SLM 1250 Lm 3000K 1-10V & Push	100604645	100606474
Luna 75 SLM 1250 Lm 3000K DALI	100610983	100610988
Luna 75 SLM 1500 Lm 4000K No dim	100606514	100606495
Luna 75 SLM 1500 Lm 4000K 1-10V & Push	100604646	100606476
Luna 75 SLM 1500 Lm 4000K DALI	100604649	100606480

REPLACEMENT

7 YEARS WARRANTY

TE CONNECTIVITY

NL DUTCH ORIGIN

POE

1-10V CONTROLLED

PLUG & PLAY

Bluetooth SMART READY

DALI CONTROLLED

EMERGENCY LIGHT OPTION

Plug & Play Solutions prefab see page 188

Emergency light option see page 186



Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Luna 75 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23,1	0,91	II
Luna 75 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23,3	0,98	II
Luna 75 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23,3	0,98	II
Luna 75 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23,3	0,98	II
Luna 75 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23,5	0,99	II
Luna 75 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23,5	0,99	II
Luna 75 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23,5	0,99	II
Luna 75 HV-WD 900 Lm 3000-2200K Triac dim	Incl. Conn.Box	220-240V	11,2	80	88	23,5	0,99	I
Luna 75 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	23,8	0,60	II
Luna 75 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	23,8	x	III
Luna 75 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	I
Luna 75 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	23,9	0,95	II
Luna 75 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	23,9	0,92	II
Luna 75 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	I
Luna 75 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	24,7	0,95	II
Luna 75 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	24,7	0,92	II
Luna 75 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	I
Luna 75 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	25,3	0,95	II
Luna 75 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	25,3	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



120 mm: For soft ceiling tiles. We recommend using a wooden plate or a ceiling ring on the reverse side of the tile.



120-165 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Luna 120 HV-IC 600 Lm 2700K Triac dim	100608421	100608394
Luna 120 HV-IC 600 Lm 3000K Triac dim	100608428	100608427
Luna 120 HV-IC 600 Lm 4000K Triac dim	100606298	100608408
Luna 120 HV-IC 900 Lm 2700K Triac dim	100606286	100606274
Luna 120 HV-IC 900 Lm 3000K Triac dim	100606288	100606276
Luna 120 HV-IC 900 Lm 4000K Triac dim	100606290	100606278
Luna 120 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608117	100608115
Luna 120 LV/RGB 1000 Lm 1800-4000K	100608116	100608114
Luna 120 SLM 1000 Lm 2700K No dim	100606347	100606323
Luna 120 SLM 1000 Lm 2700K 1-10V & Push	100606329	100606305
Luna 120 SLM 1000 Lm 2700K DALI	100606335	100606311
Luna 120 SLM 1250 Lm 3000K No dim	100606348	100606324
Luna 120 SLM 1250 Lm 3000K 1-10V & Push	100606331	100606307
Luna 120 SLM 1250 Lm 3000K DALI	100606336	100606312
Luna 120 SLM 1500 Lm 4000K No dim	100606349	100606325
Luna 120 SLM 1500 Lm 4000K 1-10V & Push	100606333	100606309
Luna 120 SLM 1500 Lm 4000K DALI	100606337	100606313



REPLACEMENT



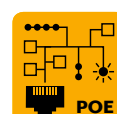
7 YEARS WARRANTY



TE CONNECTIVITY



NL DUTCH ORIGIN



POE



1-10V CONTROLLED



PLUG & PLAY



Bluetooth SMART READY



DALI CONTROLLED



EMERGENCY LIGHT OPTION

Plug & Play Solutions prefab see page 188

Emergency light option see page 186



Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Luna 120 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	21,2	0,98	II
Luna 120 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	21,2	0,98	II
Luna 120 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	21,2	0,98	II
Luna 120 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	22,6	0,99	II
Luna 120 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	22,6	0,99	II
Luna 120 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	22,6	0,99	II
Luna 120 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	22,9	0,60	II
Luna 120 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	22,9	x	III
Luna 120 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	22,9	0,95	I
Luna 120 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	22,9	0,95	II
Luna 120 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	22,9	0,92	II
Luna 120 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	23,7	0,95	I
Luna 120 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	23,7	0,95	II
Luna 120 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	23,7	0,92	II
Luna 120 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	24,4	0,95	I
Luna 120 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	24,4	0,95	II
Luna 120 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	24,4	0,92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



170-175 mm: For soft ceiling tiles. Turn the ring on the front counterclockwise after installation. We recommend taking down the ceiling tile before installing the product.



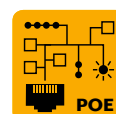
185-210 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.

ITEM SPECIFICATIONS

Description	Item code	
	Matt white	Matt black
Luna 185 HV-IC 900 Lm 2700K Triac dim	100606214	100606202
Luna 185 HV-IC 900 Lm 3000K Triac dim	100606216	100606204
Luna 185 HV-IC 900 Lm 4000K Triac dim	100606218	100606206
Luna 185 HV-IC 1250 Lm 3000K Triac dim	100608397	100608411
Luna 185 HV-IC 1250 Lm 4000K Triac dim	100608396	100608412
Luna 185 LV/RGB 1000 Lm 1800-4000K incl. PSU	100608249	100608245
Luna 185 LV/RGB 1000 Lm 1800-4000K	100608248	100608244
Luna 185 SLM 1000 Lm 2700K No dim	100606267	100606243
Luna 185 SLM 1000 Lm 2700K 1-10V & Push	100606249	100606225
Luna 185 SLM 1000 Lm 2700K DALI	100606255	100606231
Luna 185 SLM 1250 Lm 3000K No dim	100606268	100606244
Luna 185 SLM 1250 Lm 3000K 1-10V & Push	100606251	100606227
Luna 185 SLM 1250 Lm 3000K DALI	100606256	100606232
Luna 185 SLM 1500 Lm 4000K No dim	100606269	100606245
Luna 185 SLM 1500 Lm 4000K 1-10V & Push	100606253	100606229
Luna 185 SLM 1500 Lm 4000K DALI	100606257	100606233



Plug & Play Solutions prefab see page 188

Emergency light option see page 186



Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Luna 185 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	20.1	0.99	II
Luna 185 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	20.1	0.99	II
Luna 185 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	20.1	0.99	II
Luna 185 HV-IC 1250 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	16,8	74	83	21.2	0.99	II
Luna 185 HV-IC 1250 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	15,8	79	83	21.2	0.99	II
Luna 185 LV/RGB 1000 Lm 1800-4000K incl. PSU	Incl. PSU	220-240V	19,0	52	85-97	20.4	0.60	II
Luna 185 LV/RGB 1000 Lm 1800-4000K	Excl. PSU	24Vdc	16,0	63	85-97	20.4	x	III
Luna 185 SLM 1000 Lm 2700K No dim	Incl. PSU	220-240V	16,0	63	93	20.4	0.95	I
Luna 185 SLM 1000 Lm 2700K 1-10V & Push	Incl. PSU	220-240V	16,0	63	93	20.4	0.95	II
Luna 185 SLM 1000 Lm 2700K DALI	Incl. PSU	220-240V	16,0	63	93	20.4	0.92	II
Luna 185 SLM 1250 Lm 3000K No dim	Incl. PSU	220-240V	16,0	78	83	21.2	0.95	I
Luna 185 SLM 1250 Lm 3000K 1-10V & Push	Incl. PSU	220-240V	16,0	78	83	21.2	0.95	II
Luna 185 SLM 1250 Lm 3000K DALI	Incl. PSU	220-240V	16,0	78	83	21.2	0.92	II
Luna 185 SLM 1500 Lm 4000K No dim	Incl. PSU	220-240V	16,0	94	83	21.8	0.95	I
Luna 185 SLM 1500 Lm 4000K 1-10V & Push	Incl. PSU	220-240V	16,0	94	83	21.8	0.95	II
Luna 185 SLM 1500 Lm 4000K DALI	Incl. PSU	220-240V	16,0	94	83	21.8	0.92	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	80°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A (HV-IC) / A+ (SLM)

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

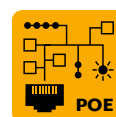
EU 874/2012



185 mm: For soft ceiling tiles. We recommend using a wooden plate or a ceiling ring on the reverse side of the tile.
185-205 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Plug & Play Solutions prefab see page 188

Emergency light option see page 186



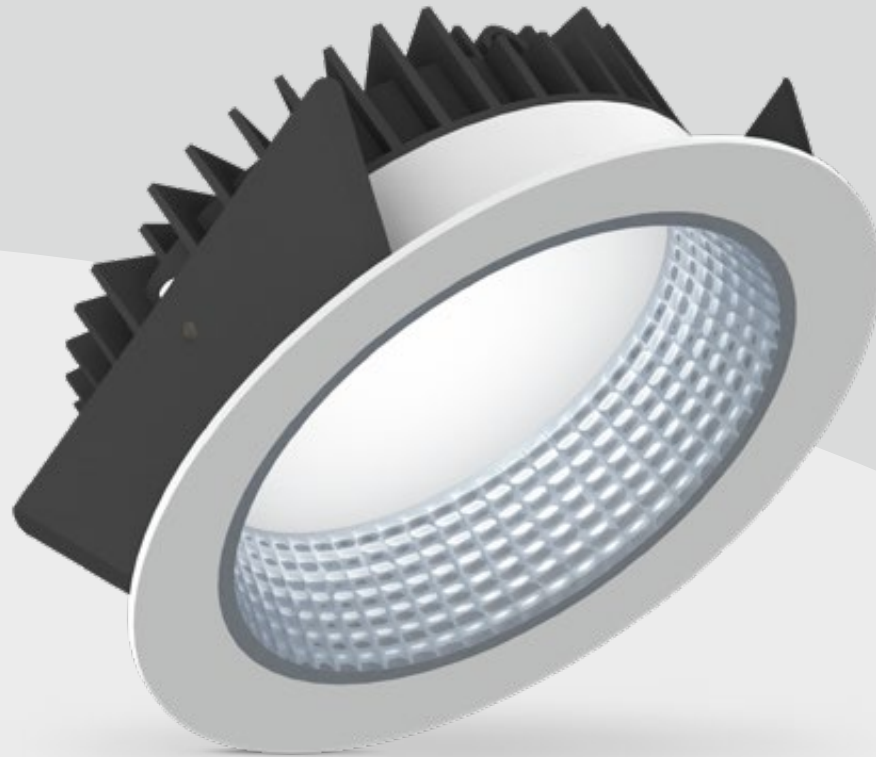
ITEM SPECIFICATIONS

Description	Item code		Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
	White	Black								
Fino 185 HV-IC 1250 Lm 2700K Triac dim	100604441	100606006	Incl. Conn.Box	220-240V	12,4	101	93	24.4	0.98	II
Fino 185 HV-IC 1250 Lm 3000K Triac dim	100604446	100606008	Incl. Conn.Box	220-240V	11,5	109	83	24.4	0.98	II
Fino 185 HV-IC 1250 Lm 4000K Triac dim	100604451	100606010	Incl. Conn.Box	220-240V	10,6	118	83	24.4	0.98	II
Fino 185 HV-IC 2000 Lm 2700K Triac dim	100604459	100606016	Incl. Conn.Box	220-240V	20,8	96	93	26.1	0.98	II
Fino 185 HV-IC 2000 Lm 3000K Triac dim	100604464	100606018	Incl. Conn.Box	220-240V	19,2	104	83	26.1	0.98	II
Fino 185 HV-IC 2000 Lm 4000K Triac dim	100604469	100606020	Incl. Conn.Box	220-240V	17,7	113	83	26.1	0.98	II
Fino 185 SLM 2700 Lm 3000K No dim	100605991	100605987	Incl. PSU	220-240V	20,0	135	83	27.1	0.95	I
Fino 185 SLM 2700 Lm 3000K 1-10V & Push	100605009	100605981	Incl. PSU	220-240V	20,0	135	83	27.1	0.95	II
Fino 185 SLM 2700 Lm 3000K DALI	100605010	100605985	Incl. PSU	220-240V	20,0	135	83	27.1	0.92	II
Fino 185 SLM 4000 Lm 3000K No dim	100605017	100605997	Incl. PSU	220-240V	31,2	128	83	28.5	0.95	I
Fino 185 SLM 4000 Lm 3000K 1-10V & Push	100605013	100605993	Incl. PSU	220-240V	31,2	128	83	28.5	0.95	II
Fino 185 SLM 4000 Lm 3000K DALI	100605015	100605995	Incl. PSU	220-240V	31,2	128	83	28.5	0.95	II
Fino 185 SLM 5250 Lm 3000K No dim	100605023	100606003	Incl. PSU	220-240V	42,4	124	83	29.4	0.98	I
Fino 185 SLM 5250 Lm 3000K 1-10V & Push	100605019	100605999	Incl. PSU	220-240V	42,4	124	83	29.4	0.98	I
Fino 185 SLM 5250 Lm 3000K DALI	100605021	100606001	Incl. PSU	220-240V	42,4	124	83	29.4	0.98	I
Fino 185 SLM 2850 Lm 4000K No dim	100610989	100610991	Incl. PSU	220-240V	20,0	142	83	27.3	0.95	I
Fino 185 SLM 2850 Lm 4000K 1-10V & Push	100605011	100605983	Incl. PSU	220-240V	20,0	142	83	27.3	0.95	II
Fino 185 SLM 2850 Lm 4000K DALI	100605012	100605986	Incl. PSU	220-240V	20,0	142	83	27.3	0.92	II
Fino 185 SLM 4200 Lm 4000K No dim	100605018	100605998	Incl. PSU	220-240V	31,2	135	83	28.6	0.95	I
Fino 185 SLM 4200 Lm 4000K 1-10V & Push	100605014	100605994	Incl. PSU	220-240V	31,2	135	83	28.6	0.95	II
Fino 185 SLM 4200 Lm 4000K DALI	100610990	100610992	Incl. PSU	220-240V	31,2	135	83	28.6	0.95	II
Fino 185 SLM 5500 Lm 4000K No dim	100605024	100606004	Incl. PSU	220-240V	42,4	130	83	29.6	0.98	I
Fino 185 SLM 5500 Lm 4000K 1-10V & Push	100605020	100606000	Incl. PSU	220-240V	42,4	130	83	29.6	0.98	I
Fino 185 SLM 5500 Lm 4000K DALI	100605022	100606002	Incl. PSU	220-240V	42,4	130	83	29.6	0.98	I

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

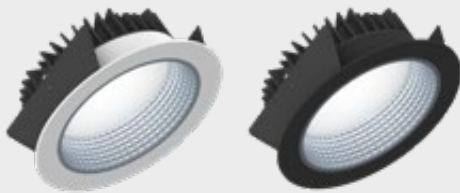


Cosmos 185



ø 230 mm

COLOURS



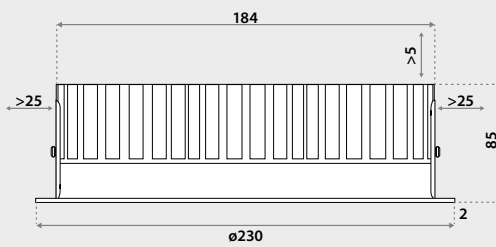
Matt white
RAL 9016

Matt black
RAL 9005

SPRINGS

No other springs
available.

DIMENSIONS



CHOOSE YOUR SLM LUMEN OUTPUT

	mA	W	Lumen Output		Lumen / Watt	
			3000K	4000K	3000K	4000K
<i>Special request</i>	350	9,8	1400	1450	143	148
<i>Special request</i>	500	14,2	1950	2050	137	144
Standard	700	20,0	2700	2850	135	142
<i>Special request</i>	900	26,5	3450	3600	130	136
Standard	1050	31,2	4000	4200	128	135
<i>Special request</i>	1200	35,8	4500	4750	126	133
Standard	1400	42,4	5250	5500	124	130

SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	80°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A (HV-IC) / A+ (SLM)

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

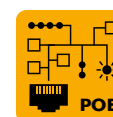
EU 874/2012



185 mm: For soft ceiling tiles. We recommend using a wooden plate or a ceiling ring on the reverse side of the tile.
185-205 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Plug & Play Solutions prefab see page 188

Emergency light option see page 186



ITEM SPECIFICATIONS

Description	Item code		Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
	White	Black								
Cosmos 185 HV-IC 1250 Lm 2700K Triac dim	100604867	100607005	Incl. Conn.Box	220-240V	12,4	101	93	24.4	0.98	II
Cosmos 185 HV-IC 1250 Lm 3000K Triac dim	100604872	100607007	Incl. Conn.Box	220-240V	11,5	109	83	24.4	0.98	II
Cosmos 185 HV-IC 1250 Lm 4000K Triac dim	100604877	100607009	Incl. Conn.Box	220-240V	10,6	118	83	24.4	0.98	II
Cosmos 185 HV-IC 2000 Lm 2700K Triac dim	100604888	100607015	Incl. Conn.Box	220-240V	20,8	96	93	26.1	0.98	II
Cosmos 185 HV-IC 2000 Lm 3000K Triac dim	100604893	100607017	Incl. Conn.Box	220-240V	19,2	104	83	26.1	0.98	II
Cosmos 185 HV-IC 2000 Lm 4000K Triac dim	100604898	100607019	Incl. Conn.Box	220-240V	17,7	113	83	26.1	0.98	II
Cosmos 185 SLM 2700 Lm 3000K No dim	100606990	100606986	Incl. PSU	220-240V	20,0	135	83	27.1	0.95	I
Cosmos 185 SLM 2700 Lm 3000K 1-10V & Push	100610993	100610994	Incl. PSU	220-240V	20,0	135	83	27.1	0.95	II
Cosmos 185 SLM 2700 Lm 3000K DALI	100605001	100606984	Incl. PSU	220-240V	20,0	135	83	27.1	0.92	II
Cosmos 185 SLM 4000 Lm 3000K No dim	100605033	100606996	Incl. PSU	220-240V	31,2	128	83	28.5	0.95	I
Cosmos 185 SLM 4000 Lm 3000K 1-10V & Push	100605029	100606992	Incl. PSU	220-240V	31,2	128	83	28.5	0.95	II
Cosmos 185 SLM 4000 Lm 3000K DALI	100605031	100606994	Incl. PSU	220-240V	31,2	128	83	28.5	0.95	II
Cosmos 185 SLM 5250 Lm 3000K No dim	100605039	100607002	Incl. PSU	220-240V	42,4	124	83	29.4	0.98	I
Cosmos 185 SLM 5250 Lm 3000K 1-10V & Push	100605035	100606998	Incl. PSU	220-240V	42,4	124	83	29.4	0.98	I
Cosmos 185 SLM 5250 Lm 3000K DALI	100605037	100607000	Incl. PSU	220-240V	42,4	124	83	29.4	0.98	I
Cosmos 185 SLM 2850 Lm 4000K No dim	100606991	100606987	Incl. PSU	220-240V	20,0	142	83	27.3	0.95	I
Cosmos 185 SLM 2850 Lm 4000K 1-10V & Push	100605026	100606982	Incl. PSU	220-240V	20,0	142	83	27.3	0.95	II
Cosmos 185 SLM 2850 Lm 4000K DALI	100605002	100606985	Incl. PSU	220-240V	20,0	142	83	27.3	0.92	II
Cosmos 185 SLM 4200 Lm 4000K No dim	100605034	100606997	Incl. PSU	220-240V	31,2	135	83	28.6	0.95	I
Cosmos 185 SLM 4200 Lm 4000K 1-10V & Push	100605030	100606993	Incl. PSU	220-240V	31,2	135	83	28.6	0.95	II
Cosmos 185 SLM 4200 Lm 4000K DALI	100605032	100606995	Incl. PSU	220-240V	31,2	135	83	28.6	0.95	II
Cosmos 185 SLM 5500 Lm 4000K No dim	100605040	100607003	Incl. PSU	220-240V	42,4	130	83	29.6	0.98	I
Cosmos 185 SLM 5500 Lm 4000K 1-10V & Push	100605036	100606999	Incl. PSU	220-240V	42,4	130	83	29.6	0.98	I
Cosmos 185 SLM 5500 Lm 4000K DALI	100605038	100607001	Incl. PSU	220-240V	42,4	130	83	29.6	0.98	I

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.



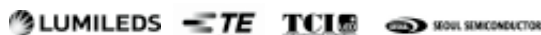
SPECIFICATIES

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	18° / 37° / 60° (On request 80°)
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Type	HV-IC=Triac SLM=Incl. PSU
Safety Class	I (HV-IC) / II (SLM)
Energy Class	A (HV-IC) / A+ (SLM)

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

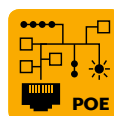
EU 874/2012



120-130 mm: For soft ceiling tiles. We recommend using a ceiling ring on the reverse side of the tile.
120 mm: For plasterboard ceilings or similar harder materials thicker than 9 mm.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Ask our sales department about the possibilities for:

- Tunable white 2700-6500K.

- Extra LED options from the LUXEON Stylist Series (see page 42)

Plug & Play Solutions prefab see page 188

Emergency light option see page 186

ARTIKELSPECIFICATIES

Description Luna DS-FS	18°		37°		60°		mA	Vf	W	Lm/W	CRI (typ.)	Pf
	Item code (white)*	UGR	Item code (white)*	UGR	Item code (white)*	UGR						
HV-IC 2000 Lm 3000K CRI90 Triac dim	100608438	13.5	100608446	14.5	100608454	18.9	x	x	30,0	67	92	x
HV-IC 2200 Lm 4000K CRI90 Triac dim	100608437	13.9	100608445	14.9	100608453	19.3	x	x	30,0	73	92	x
SLM 3000 Lm 3000K CRI80 No dim	100609434	17.9	100609435	17.4	100609436	20.4	800	35,3	27,9	108	82	0.95
SLM 3000 Lm 3000K CRI80 1-10V & Push	100609506	17.9	100609507	17.4	100609508	20.4	800	35,3	27,9	108	82	0.98
SLM 3000 Lm 3000K CRI80 Dali	100609524	17.9	100609525	17.4	100609526	20.4	800	35,3	27,9	108	82	0.98
SLM 5000 Lm 3000K CRI80 No dim	100609443	17.7	100609444	17.8	100609445	22.2	1400	37,5	49,8	100	82	0.98
SLM 5000 Lm 3000K CRI80 1-10V & Push	100609515	17.7	100609516	17.8	100609517	22.2	1400	37,5	49,8	100	82	0.98
SLM 5000 Lm 3000K CRI80 Dali	100609533	17.7	100609534	17.8	100609535	22.2	1400	37,5	49,8	100	82	0.98
SLM 2500 Lm 3000K CRI96 No dim	100609440	17.3	100609441	16.8	100609442	19.8	800	35,3	27,9	90	96	0.95
SLM 2500 Lm 3000K CRI96 1-10V & Push	100609512	17.3	100609513	16.8	100609514	19.8	800	35,3	27,9	90	96	0.98
SLM 2500 Lm 3000K CRI96 Dali	100609530	17.3	100609531	16.8	100609532	19.8	800	35,3	27,9	90	96	0.98
SLM 3750 Lm 3000K CRI96 No dim	100609479	15.7	100609480	16.8	100609481	21.2	1400	37,5	49,8	75	96	0.98
SLM 3750 Lm 3000K CRI96 1-10V & Push	100609521	15.7	100609522	16.8	100609523	21.2	1400	37,5	49,8	75	96	0.98
SLM 3750 Lm 3000K CRI96 Dali	100609539	15.7	100609540	16.8	100609541	21.2	1400	37,5	49,8	75	96	0.98
SLM 3400 Lm 4000K CRI80 No dim	100609437	18.1	100609438	17.6	100609439	20.9	800	35,3	27,9	122	82	0.95
SLM 3400 Lm 4000K CRI80 1-10V & Push	100609509	18.1	100609510	17.6	100609511	20.9	800	35,3	27,9	122	82	0.98
SLM 3400 Lm 4000K CRI80 Dali	100609527	18.1	100609528	17.6	100609529	20.9	800	35,3	27,9	122	82	0.98
SLM 5700 Lm 4000K CRI80 No dim	100609446	17.2	100609447	18.2	100609448	22.6	1400	37,5	49,8	114	82	0.98
SLM 5700 Lm 4000K CRI80 1-10V & Push	100609518	17.2	100609519	18.2	100609520	22.6	1400	37,5	49,8	114	82	0.98
SLM 5700 Lm 4000K CRI80 Dali	100609536	17.2	100609537	18.2	100609538	22.6	1400	37,5	49,8	114	82	0.98

All values are measured at 230V (+/- 7%). * Check our website or ask our sales department about the item codes for other available colours and springs.



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	45° / 65°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

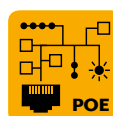
This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



160 mm: For soft ceiling tiles. We recommend using a wooden plate or a ceiling ring on the reverse side of the tile.
150-165 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Ask our sales department about the possibilities for:

- Tunable white 2700-6500K.
- Extra LED options from the LUXEON Stylist Series (see page 42)

Plug & Play Solutions prefab see page 188

Emergency light option see page 186

ITEM SPECIFICATIONS

Description	45°		65°		Type	mA	Vf	W	Lm/W	CRI (typ.)	Pf	Safety class
	Item code (white)*	UGR	Item code (white)*	UGR								
Luna DS-F SLM 3000 Lm 3000K CRI80 No dim	100609024	15.6	100609025	18.5	Incl. PSU	800	35,3	27,9	108	82	0.95	II
Luna DS-F SLM 3000 Lm 3000K CRI80 1-10V & Push	100609038	15.6	100609039	18.5	Incl. PSU	800	35,3	27,9	108	82	0.98	II
Luna DS-F SLM 3000 Lm 3000K CRI80 Dali	100609050	15.6	100609051	18.5	Incl. PSU	800	35,3	27,9	108	82	0.98	II
Luna DS-F SLM 5000 Lm 3000K CRI80 No dim	100609000	17.4	100609001	20.3	Incl. PSU	1400	37,5	49,8	100	82	0.98	II
Luna DS-F SLM 5000 Lm 3000K CRI80 1-10V & Push	100609042	17.4	100609043	20.3	Incl. PSU	1400	37,5	49,8	100	82	0.98	II
Luna DS-F SLM 5000 Lm 3000K CRI80 Dali	100609054	17.4	100609055	20.3	Incl. PSU	1400	37,5	49,8	100	82	0.98	II
Luna DS-F SLM 2500 Lm 3000K CRI96 No dim	100609006	15.0	100609007	17.9	Incl. PSU	800	35,3	27,9	90	96	0.95	II
Luna DS-F SLM 2500 Lm 3000K CRI96 1-10V & Push	100609036	15.0	100609037	17.9	Incl. PSU	800	35,3	27,9	90	96	0.98	II
Luna DS-F SLM 2500 Lm 3000K CRI96 Dali	100609048	15.0	100609049	17.9	Incl. PSU	800	35,3	27,9	90	96	0.98	II
Luna DS-F SLM 3750 Lm 3000K CRI96 No dim	100609004	16.4	100609005	19.3	Incl. PSU	1400	37,5	49,8	75	96	0.98	II
Luna DS-F SLM 3750 Lm 3000K CRI96 1-10V & Push	100609046	16.4	100609047	19.3	Incl. PSU	1400	37,5	49,8	75	96	0.98	II
Luna DS-F SLM 3750 Lm 3000K CRI96 Dali	100609058	16.4	100609059	19.3	Incl. PSU	1400	37,5	49,8	75	96	0.98	II
Luna DS-F SLM 3400 Lm 4000K CRI80 No dim	100609026	16.0	100609027	18.9	Incl. PSU	800	35,3	27,9	122	82	0.95	II
Luna DS-F SLM 3400 Lm 4000K CRI80 1-10V & Push	100609040	16.0	100609041	18.9	Incl. PSU	800	35,3	27,9	122	82	0.98	II
Luna DS-F SLM 3400 Lm 4000K CRI80 Dali	100609052	16.0	100609053	18.9	Incl. PSU	800	35,3	27,9	122	82	0.98	II
Luna DS-F SLM 5700 Lm 4000K CRI80 No dim	100609002	17.8	100609003	20.7	Incl. PSU	1400	37,5	49,8	114	82	0.98	II
Luna DS-F SLM 5700 Lm 4000K CRI80 1-10V & Push	100609044	17.8	100609045	20.7	Incl. PSU	1400	37,5	49,8	114	82	0.98	II
Luna DS-F SLM 5700 Lm 4000K CRI80 Dali	100609056	17.8	100609057	20.7	Incl. PSU	1400	37,5	49,8	114	82	0.98	II

All values are measured at 230V (+/- 7%). * Check our website or ask our sales department about the item codes for other available colours and springs.



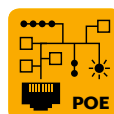
SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	18° / 37° / 60°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Type	Incl. PSU
Safety Class	II
Energy Class	A+

This luminaire contains built-in LED lamps.
 The lamps cannot be changed in the luminaire.
 EU 874/2012



For soft ceiling tiles, we recommend using a wooden plate on the reverse side of the tile.

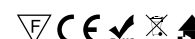


Ask our sales department about the possibilities for:
 - Tunable white 2700-6500K.
 - Extra LED options from the LUXEON Stylist Series (see page 42)
 Plug & Play Solutions prefab see page 188
 Emergency light option see page 186

ITEM SPECIFICATIONS

Description Luna DS-A 195	18°		37°		60°		mA	Vf	W	Lm/W	CRI (typ.)	Pf
	Item code (white)*	UGR	Item code (white)*	UGR	Item code (white)*	UGR						
SLM 3000 Lm 3000K CRI80 No dim	100608676	17.9	100608677	17.4	100608678	20.4	800	35,3	27,9	108	82	0.95
SLM 3000 Lm 3000K CRI80 1-10V & Push	100608712	17.9	100608713	17.4	100608714	20.4	800	35,3	27,9	108	82	0.98
SLM 3000 Lm 3000K CRI80 Dali	100608730	17.9	100608731	17.4	100608732	20.4	800	35,3	27,9	108	82	0.98
SLM 5000 Lm 3000K CRI80 No dim	100608685	17.7	100608686	17.8	100608687	22.2	1400	37,5	49,8	100	82	0.98
SLM 5000 Lm 3000K CRI80 1-10V & Push	100608721	17.7	100608722	17.8	100608723	22.2	1400	37,5	49,8	100	82	0.98
SLM 5000 Lm 3000K CRI80 Dali	100608739	17.7	100608740	17.8	100608741	22.2	1400	37,5	49,8	100	82	0.98
SLM 2500 Lm 3000K CRI96 No dim	100608682	17.3	100608683	16.8	100608684	19.8	800	35,3	27,9	90	96	0.95
SLM 2500 Lm 3000K CRI96 1-10V & Push	100608718	17.3	100608719	16.8	100608720	19.8	800	35,3	27,9	90	96	0.98
SLM 2500 Lm 3000K CRI96 Dali	100608736	17.3	100608737	16.8	100608738	19.8	800	35,3	27,9	90	96	0.98
SLM 3750 Lm 3000K CRI96 No dim	100608691	15.7	100608692	16.8	100608693	21.2	1400	37,5	49,8	75	96	0.98
SLM 3750 Lm 3000K CRI96 1-10V & Push	100608727	15.7	100608728	16.8	100608729	21.2	1400	37,5	49,8	75	96	0.98
SLM 3750 Lm 3000K CRI96 Dali	100608745	15.7	100608746	16.8	100608747	21.2	1400	37,5	49,8	75	96	0.98
SLM 3400 Lm 4000K CRI80 No dim	100608679	18.1	100608680	17.6	100608681	20.9	800	35,3	27,9	122	82	0.95
SLM 3400 Lm 4000K CRI80 1-10V & Push	100608715	18.1	100608716	17.6	100608717	20.9	800	35,3	27,9	122	82	0.98
SLM 3400 Lm 4000K CRI80 Dali	100608733	18.1	100608734	17.6	100608735	20.9	800	35,3	27,9	122	82	0.98
SLM 5700 Lm 4000K CRI80 No dim	100608688	17.2	100608689	18.2	100608690	22.6	1400	37,5	49,8	114	82	0.98
SLM 5700 Lm 4000K CRI80 1-10V & Push	100608724	17.2	100608725	18.2	100608726	22.6	1400	37,5	49,8	114	82	0.98
SLM 5700 Lm 4000K CRI80 Dali	100608742	17.2	100608743	18.2	100608744	22.6	1400	37,5	49,8	114	82	0.98

All values are measured at 230V (+/- 7%). * Check our website or ask our sales department about the item codes for other available colours and springs.



Luna DS-AT 425x235

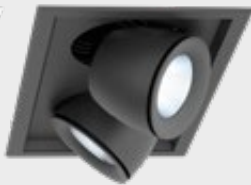


425 x 235 mm

COLOURS



Matt white
RAL 9016



Matt black
RAL 9005

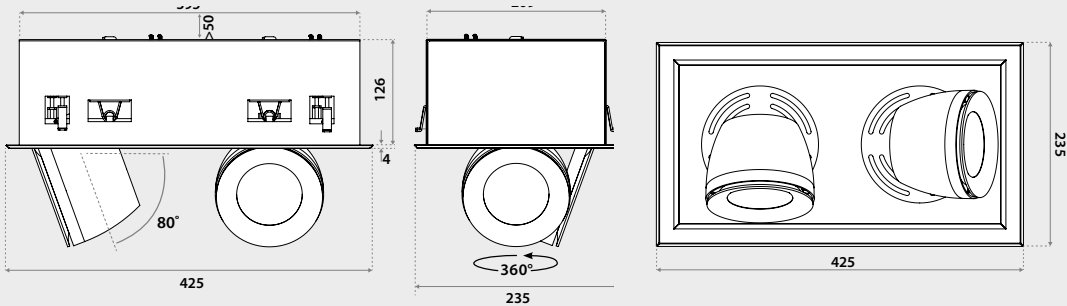
CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			CRI80	CRI96	CRI80	CRI80	CRI96	CRI80
			3000K	3000K	4000K	3000K	3000K	4000K
<i>Special request</i>	350	11,5	1500	1100	1650	130	96	143
<i>Special request</i>	500	15,6	2000	1450	2200	128	93	141
<i>Special request</i>	700	23,5	2700	2150	3150	115	91	134
Standard	800	27,9	3000	2500	3400	108	90	122
<i>Special request</i>	900	30,9	3400	2600	3850	110	84	125
<i>Special request</i>	1050	36,3	3750	2900	4400	103	80	121
<i>Special request</i>	1200	42,2	4250	3250	5000	101	77	118
Standard	1400	49,8	5000	3750	5700	100	75	114

SPRINGS

No other springs available.

DIMENSIONS

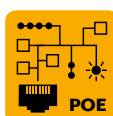


SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	18° / 37° / 60°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Type	Incl. PSU
Safety Class	II
Energy Class	A+



For soft ceiling tiles, we recommend using a wooden plate on the reverse side of the tile.



This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012

Ask our sales department about the possibilities for:

- Tunable white 2700-6500K.
- Extra LED options from the LUXEON Stylist Series (see page 42)

Plug & Play Solutions prefab see page 188

Emergency light option see page 186



ITEM SPECIFICATIONS

Description Luna DS-AT	18°		37°		60°		mA	Vf	W	Lm/W	CRI (typ.)	Pf
	Item code (white)*	UGR	Item code (white)*	UGR	Item code (white)*	UGR						
SLM 2x 3000 Lm 3000K CRI80 No dim	100609164	17.9	100609165	17.4	100609166	20.4	800	35,3	27,9	108	82	0.95
SLM 2x 3000 Lm 3000K CRI80 1-10V & Push	100609182	17.9	100609183	17.4	100609184	20.4	800	35,3	27,9	108	82	0.98
SLM 2x 3000 Lm 3000K CRI80 Dali	100609200	17.9	100609201	17.4	100609202	20.4	800	35,3	27,9	108	82	0.98
SLM 2x 5000 Lm 3000K CRI80 No dim	100609173	17.7	100609174	17.8	100609175	22.2	1400	37,5	49,8	100	82	0.98
SLM 2x 5000 Lm 3000K CRI80 1-10V & Push	100609191	17.7	100609192	17.8	100609193	22.2	1400	37,5	49,8	100	82	0.98
SLM 2x 5000 Lm 3000K CRI80 Dali	100609209	17.7	100609210	17.8	100609211	22.2	1400	37,5	49,8	100	82	0.98
SLM 2x 2500 Lm 3000K CRI96 No dim	100609170	17.3	100609171	16.8	100609172	19.8	800	35,3	27,9	90	96	0.95
SLM 2x 2500 Lm 3000K CRI96 1-10V & Push	100609188	17.3	100609189	16.8	100609190	19.8	800	35,3	27,9	90	96	0.98
SLM 2x 2500 Lm 3000K CRI96 Dali	100609206	17.3	100609207	16.8	100609208	19.8	800	35,3	27,9	90	96	0.98
SLM 2x 3750 Lm 3000K CRI96 No dim	100609179	15.7	100609180	16.8	100609181	21.2	1400	37,5	49,8	75	96	0.98
SLM 2x 3750 Lm 3000K CRI96 1-10V & Push	100609197	15.7	100609198	16.8	100609199	21.2	1400	37,5	49,8	75	96	0.98
SLM 2x 3750 Lm 3000K CRI96 Dali	100609215	15.7	100609216	16.8	100609217	21.2	1400	37,5	49,8	75	96	0.98
SLM 2x 3400 Lm 4000K CRI80 No dim	100609167	18.1	100609168	17.6	100609169	20.9	800	35,3	27,9	122	82	0.95
SLM 2x 3400 Lm 4000K CRI80 1-10V & Push	100609185	18.1	100609186	17.6	100609187	20.9	800	35,3	27,9	122	82	0.98
SLM 2x 3400 Lm 4000K CRI80 Dali	100609203	18.1	100609204	17.6	100609205	20.9	800	35,3	27,9	122	82	0.98
SLM 2x 5700 Lm 4000K CRI80 No dim	100609176	17.2	100609177	18.2	100609178	22.6	1400	37,5	49,8	114	82	0.98
SLM 2x 5700 Lm 4000K CRI80 1-10V & Push	100609194	17.2	100609195	18.2	100609196	22.6	1400	37,5	49,8	114	82	0.98
SLM 2x 5700 Lm 4000K CRI80 Dali	100609212	17.2	100609213	18.2	100609214	22.6	1400	37,5	49,8	114	82	0.98

All values are measured at 230V (+/- 7%). * Check our website or ask our sales department about the item codes for other available colours and springs.



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	80°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Safety Class	I (No dim 1400 Lm) / II
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

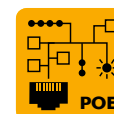


170-175 mm: For soft ceiling tiles. Turn the ring on the front counterclockwise after installation. We recommend taking down the ceiling tile before installing the product.

185-210 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Plug & Play Solutions prefab see page 188

Emergency light option see page 186



ITEM SPECIFICATIONS

Description	Item code					
	No dim		1-10V & Push		DALI	
	White	Black	White	Black	White	Black
Luna 185 LV-HE+PS 1400 Lm 2700K	100605437	100605419	100605425	100605407	100605428	100605410
Luna 185 LV-HE+PS 1400 Lm 3000K	100605438	100605420	100605426	100605408	100605429	100605411
Luna 185 LV-HE+PS 1400 Lm 4000K	100605439	100605421	100605427	100605409	100605430	100605412
Luna 185 LV-HE+PS 2200 Lm 2700K	100605473	100605455	100605461	100605443	100605464	100605446
Luna 185 LV-HE+PS 2200 Lm 3000K	100605474	100605456	100605462	100605444	100605465	100605447
Luna 185 LV-HE+PS 2200 Lm 4000K	100605475	100605457	100605463	100605445	100605466	100605448
Luna 185 LV-HE+PS 3500 Lm 2700K	100605509	100605491	100605497	100605479	100605500	100605482
Luna 185 LV-HE+PS 3500 Lm 3000K	100605510	100605492	100605498	100605480	100605501	100605483
Luna 185 LV-HE+PS 3500 Lm 4000K	100605511	100605493	100605499	100605481	100605502	100605484

Description	Type	Input	W	Lm/W	CRI (typ.)	Pf		
						No dim	1-10V & Push	DALI
Luna 185 LV-HE+PS 1400 Lm 2700K	Incl. PSU	220-240V	12,7	110	95	0.97	0.95	0.92
Luna 185 LV-HE+PS 1400 Lm 3000K	Incl. PSU	220-240V	12,7	110	95	0.97	0.95	0.92
Luna 185 LV-HE+PS 1400 Lm 4000K	Incl. PSU	220-240V	12,7	110	95	0.97	0.95	0.92
Luna 185 LV-HE+PS 2200 Lm 2700K	Incl. PSU	220-240V	20,0	110	95	0.95	0.95	0.92
Luna 185 LV-HE+PS 2200 Lm 3000K	Incl. PSU	220-240V	20,0	110	95	0.95	0.95	0.92
Luna 185 LV-HE+PS 2200 Lm 4000K	Incl. PSU	220-240V	20,0	110	95	0.95	0.95	0.92
Luna 185 LV-HE+PS 3500 Lm 2700K	Incl. PSU	220-240V	31,8	110	95	0.95	0.95	0.95
Luna 185 LV-HE+PS 3500 Lm 3000K	Incl. PSU	220-240V	31,8	110	95	0.95	0.95	0.95
Luna 185 LV-HE+PS 3500 Lm 4000K	Incl. PSU	220-240V	31,8	110	95	0.95	0.95	0.95

All values are measured at 230V (+/- 7%).



Censo 185 LV-HE+PS



ø 230 mm

CENSO 185 LV-HE+PS (FIXED) - DOWNLIGHTS

COLOURS



Matt white
RAL 9016

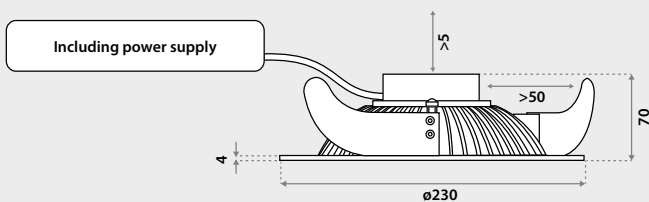
Matt black
RAL 9005

SPRINGS



Standard with gyproc-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	80°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20 / IP44
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Safety Class	I (No dim 1400 Lm) / II
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

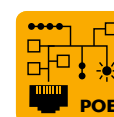


170-175 mm: For soft ceiling tiles. Turn the ring on the front counterclockwise after installation. We recommend taking down the ceiling tile before installing the product.

185-210 mm: For plasterboard ceilings or similar harder materials.



Only when the product is installed in a closed ceiling may it be exposed to water splashes, and only on its front side.



Plug & Play Solutions prefab see page 188

Emergency light option see page 186

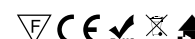


ITEM SPECIFICATIONS

Description	Item code					
	No dim		1-10V & Push		DALI	
	White	Black	White	Black	White	Black
Censo 185 LV-HE+PS 1400 Lm 2700K	100607137	100607119	100607125	100607107	100607128	100607110
Censo 185 LV-HE+PS 1400 Lm 3000K	100607138	100607120	100607126	100607108	100607129	100607111
Censo 185 LV-HE+PS 1400 Lm 4000K	100607139	100607121	100607127	100607109	100607130	100607112
Censo 185 LV-HE+PS 2200 Lm 2700K	100607173	100607155	100607161	100607143	100607164	100607146
Censo 185 LV-HE+PS 2200 Lm 3000K	100607174	100607156	100607162	100607144	100607165	100607147
Censo 185 LV-HE+PS 2200 Lm 4000K	100607175	100607157	100607163	100607145	100607166	100607148
Censo 185 LV-HE+PS 3500 Lm 2700K	100607209	100607191	100607197	100607179	100607200	100607182
Censo 185 LV-HE+PS 3500 Lm 3000K	100607210	100607192	100607198	100607180	100607201	100607183
Censo 185 LV-HE+PS 3500 Lm 4000K	100607211	100607193	100607199	100607181	100607202	100607184

Description	Type	Input	W	Lm/W	CRI (typ.)	Pf		
						No dim	1-10V & Push	DALI
Censo 185 LV-HE+PS 1400 Lm 2700K	Incl. PSU	220-240V	12,7	110	95	0.97	0.95	0.92
Censo 185 LV-HE+PS 1400 Lm 3000K	Incl. PSU	220-240V	12,7	110	95	0.97	0.95	0.92
Censo 185 LV-HE+PS 1400 Lm 4000K	Incl. PSU	220-240V	12,7	110	95	0.97	0.95	0.92
Censo 185 LV-HE+PS 2200 Lm 2700K	Incl. PSU	220-240V	20,0	110	95	0.95	0.95	0.92
Censo 185 LV-HE+PS 2200 Lm 3000K	Incl. PSU	220-240V	20,0	110	95	0.95	0.95	0.92
Censo 185 LV-HE+PS 2200 Lm 4000K	Incl. PSU	220-240V	20,0	110	95	0.95	0.95	0.92
Censo 185 LV-HE+PS 3500 Lm 2700K	Incl. PSU	220-240V	31,8	110	95	0.95	0.95	0.95
Censo 185 LV-HE+PS 3500 Lm 3000K	Incl. PSU	220-240V	31,8	110	95	0.95	0.95	0.95
Censo 185 LV-HE+PS 3500 Lm 4000K	Incl. PSU	220-240V	31,8	110	95	0.95	0.95	0.95

All values are measured at 230V (+/- 7%).



CENSO 185 LV-HE+PS (FIXED) - DOWNLIGHTS





Downlights

-

Mileta headquarter Horice Tsjechië

Cosmos I85 LV-HE+PS

Oxford HV-IC



ø 100 mm

OXFORD HV-IC - TRACKSPOTS

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006

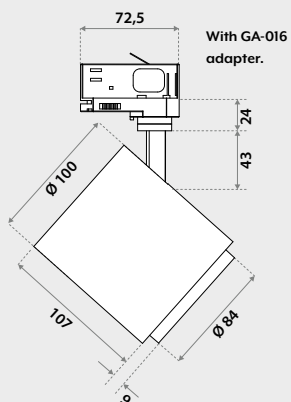


Matt black
RAL 9005

FRONT RINGS



DIMENSIONS



TRACKS



SPECIFICATIONS

Colour(s)	Matt white RAL9016 Matt grey RAL 9006 Matt black RAL 9005 Front ring standard in black and special colours on request (white, blue, gold, silver and copper)
Beam angle (FWHM)	18° / 37° / 60°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Type	Triac
Safety Class	I
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



NORDIC ALUMINIUM SEUL SEMICONDUCTOR

ITEM SPECIFICATIONS

Description Oxford	18°		37°		60°		W	Lm/W	CRI (typ.)	Pf
	Item code	UGR	Item code	UGR	Item code	UGR				
HV-IC 2000 Lm 3000K CRI90 White Triac dim	100608481	13.5	100608483	14.5	100608485	18.9	30,0	67	92	0.99
HV-IC 2000 Lm 3000K CRI90 Grey Triac dim	100608487	13.5	100608489	14.5	100608491	18.9	30,0	67	92	0.99
HV-IC 2000 Lm 3000K CRI90 Black Triac dim	100608493	13.5	100608495	14.5	100608497	18.9	30,0	67	92	0.99
HV-IC 2200 Lm 4000K CRI90 White Triac dim	100608480	13.9	100608482	14.9	100608484	19.3	30,0	73	92	0.99
HV-IC 2200 Lm 4000K CRI90 Grey Triac dim	100608486	13.9	100608488	14.9	100608490	19.3	30,0	73	92	0.99
HV-IC 2200 Lm 4000K CRI90 Black Triac dim	100608492	13.9	100608494	14.9	100608496	19.3	30,0	73	92	0.99

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

Oxford XS



ø 100 mm

OXFORD XS - TRACKSPOTS

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006



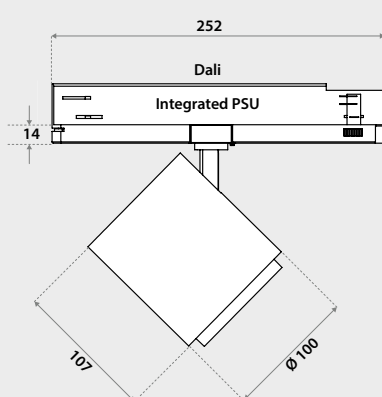
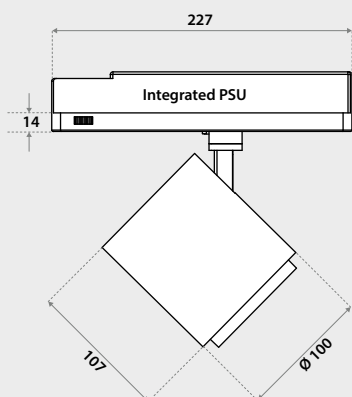
Matt black
RAL 9005

FRONT RINGS



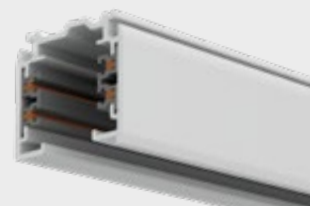
DIMENSIONS

With integrated GA-016 + PSU adapter, not visible after installation.



TRACKS

On request! Ask our sales department about the possibilities.



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			CRI80	CRI96	CRI80	CRI80	CRI96	CRI80
			3000K	3000K	4000K	3000K	3000K	4000K
Special request	700	27,6	2700	2200	3150	98	94	114
Standard	800	32,1	3000	2500	3400	93	78	106
Special request	850	33,6	3100	2600	3850	92	72	104

SPECIFICATIONS

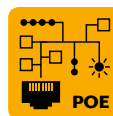
Colour(s)	Matt white RAL9016 Matt grey RAL 9006 Matt black RAL 9005 Front ring standard in black and special colours on request (white, blue, gold, silver and copper)
Beam angle (FWHM)	18° / 37° / 60°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Safety Class	I
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

IP20



Ask our sales department about the possibilities for:

- Extra LED options from the LUXEON Stylist Series (see page 42)

NORDIC ALUMINIUM

ITEM SPECIFICATIONS

Description	18°		37°		60°		mA	W	Lm/W	CRI (typ.)	Pf
	Item code	UGR	Item code	UGR	Item code	UGR					
Oxford XS White 3000 Lm 3000K CRI80	100608172	14.9	100608175	16.0	100608178	20.4	800	32,1	93	82	0.97
Oxford XS White 3000 Lm 3000K CRI80 Dali	100609733	14.9	100609734	16.0	100609735	20.4	800	32,1	93	82	0.97
Oxford XS White 2500 Lm 3000K CRI96	100608218	14.2	100608219	15.2	100608220	19.6	800	32,1	78	96	0.97
Oxford XS White 2500 Lm 3000K CRI96 Dali	100609730	14.2	100609731	15.2	100609732	19.6	800	32,1	78	96	0.97
Oxford XS White 3400 Lm 4000K CRI80	100608221	15.4	100608222	16.4	100608223	20.8	800	32,1	106	82	0.97
Oxford XS White 3400 Lm 4000K CRI80 Dali	100609736	15.4	100609737	16.4	100609738	20.8	800	32,1	106	82	0.97
Oxford XS Grey 3000 Lm 3000K CRI80	100608171	14.9	100608174	16.0	100608177	20.4	800	32,1	93	82	0.97
Oxford XS Grey 3000 Lm 3000K CRI80 Dali	100609724	14.9	100609725	16.0	100609726	20.4	800	32,1	93	82	0.97
Oxford XS Grey 2500 Lm 3000K CRI96	100608206	14.2	100608207	15.2	100608208	19.6	800	32,1	78	96	0.97
Oxford XS Grey 2500 Lm 3000K CRI96 Dali	100609721	14.2	100609722	15.2	100609723	19.6	800	32,1	78	96	0.97
Oxford XS Grey 3400 Lm 4000K CRI80	100608209	15.4	100608210	16.4	100608211	20.8	800	32,1	106	82	0.97
Oxford XS Grey 3400 Lm 4000K CRI80 Dali	100609727	15.4	100609728	16.4	100609729	20.8	800	32,1	106	82	0.97
Oxford XS Black 3000 Lm 3000K CRI80	100608170	14.9	100608173	16.0	100608176	20.4	800	32,1	93	82	0.97
Oxford XS Black 3000 Lm 3000K CRI80 Dali	100609715	14.9	100609716	16.0	100609717	20.4	800	32,1	93	82	0.97
Oxford XS Black 2500 Lm 3000K CRI96	100608194	14.2	100608195	15.2	100608196	19.6	800	32,1	78	96	0.97
Oxford XS Black 2500 Lm 3000K CRI96 Dali	100609712	14.2	100609713	15.2	100609714	19.6	800	32,1	78	96	0.97
Oxford XS Black 3400 Lm 4000K CRI80	100608197	15.4	100608198	16.4	100608199	20.8	800	32,1	106	82	0.97
Oxford XS Black 3400 Lm 4000K CRI80 Dali	100609718	15.4	100609719	16.4	100609720	20.8	800	32,1	106	82	0.97

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.





Trackspots

-

Heraldi For women

Zagreb, Croatia

Oxford XS

Oxford XL



↔
ø 100 mm

OXFORD XL - TRACKSPOTS

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006

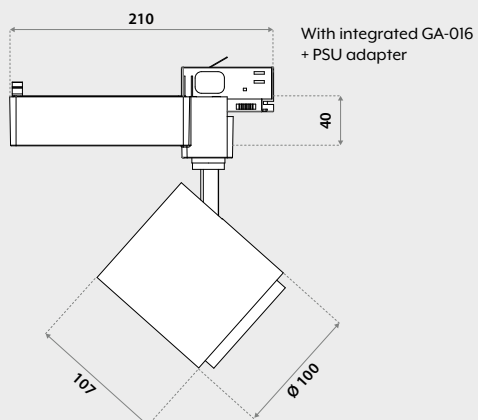


Matt black
RAL 9005

FRONT RINGS

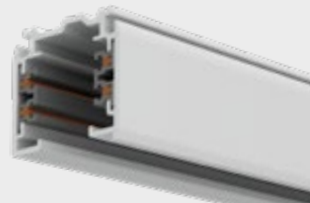


DIMENSIONS



TRACKS

On request! Ask our sales department
about the possibilities.



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			CRI80	CRI96	CRI80	CRI80	CRI96	CRI80
			3000K	3000K	4000K	3000K	3000K	4000K
Special request	900	35,8	3400	2700	3850	95	75	108
Special request	1050	41,5	3750	3000	4400	90	72	106
Special request	1200	48,4	4250	3250	5000	88	67	103
Standard	1400	57,1	5000	3750	5700	87	66	100

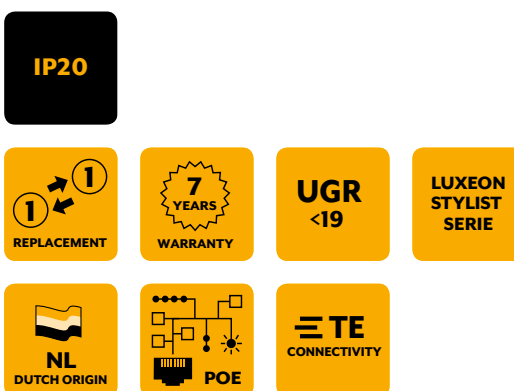
SPECIFICATIONS

Colour(s)	Matt white RAL9016 Matt grey RAL 9006 Matt black RAL 9005 Front ring standard in black and special colours on request (white, blue, gold, silver and copper)
Beam angle (FWHM)	18° / 37° / 60°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Type	No dim
Safety Class	I
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Ask our sales department about the possibilities for:

- Extra LED options from the LUXEON Stylist Series (see page 42)

NORDIC ALUMINIUM

ITEM SPECIFICATIONS

Description	18°		37°		60°		mA	W	Lm/W	CRI (typ.)	Pf
	Item code	UGR	Item code	UGR	Item code	UGR					
Oxford XL White 5000 Lm 3000K CRI80	100608181	17.7	100608184	17.8	100608187	22.2	1400	57,1	87	82	0.95
Oxford XL White 3750 Lm 3000K CRI96	100608224	15.7	100608225	16.8	100608226	21.2	1400	57,1	66	96	0.95
Oxford XL White 5700 Lm 4000K CRI80	100608215	17.2	100608216	18.2	100608217	22.6	1400	57,1	100	82	0.95
Oxford XL Grey 5000 Lm 3000K CRI80	100608180	17.7	100608183	17.8	100608186	22.2	1400	57,1	87	82	0.95
Oxford XL Grey 3750 Lm 3000K CRI96	100608212	15.7	100608213	16.8	100608214	21.2	1400	57,1	66	96	0.95
Oxford XL Grey 5700 Lm 4000K CRI80	100608203	17.2	100608204	18.2	100608205	22.6	1400	57,1	100	82	0.95
Oxford XL Black 5000 Lm 3000K CRI80	100608179	17.7	100608182	17.8	100608185	22.2	1400	57,1	87	82	0.95
Oxford XL Black 3750 Lm 3000K CRI96	100608200	15.7	100608201	16.8	100608202	21.2	1400	57,1	66	96	0.95
Oxford XL Black 5700 Lm 4000K CRI80	100608191	17.2	100608192	18.2	100608193	22.6	1400	57,1	100	82	0.95

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

Luna AS



↔
ø 125 mm

LUNA AS - TRACKSPOTS

COLOURS



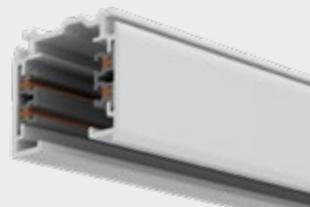
Matt white
RAL 9016

Matt grey
RAL 9006

Matt black
RAL 9005

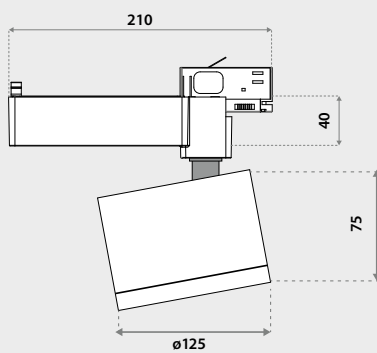
TRACKS

On request! Ask our sales department about the possibilities.



DIMENSIONS

With integrated GA-016 + PSU adapter



CHOOSE YOUR LUMEN OUTPUT

	mA	W	Lumen Output			Lumen / Watt		
			CRI80	CRI96	CRI80	CRI80	CRI96	CRI80
			3000K	3000K	4000K	3000K	3000K	4000K
Special request	350	13	1500	1100	1650	115	85	127
Special request	500	17,6	2000	1450	2200	114	82	125
Special request	700	26,5	2700	2150	3150	102	81	119
Standard	800	31,7	3000	2500	3400	95	79	107

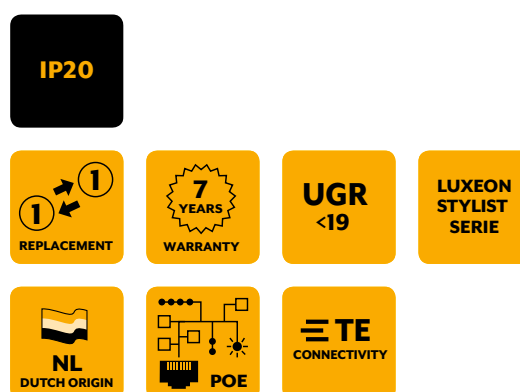
SPECIFICATIONS

Colour(s)	Matt white RAL9016 Matt grey RAL 9006 Matt black RAL 9005
Beam angle (FWHM)	18° / 37° / 60°
UGR (4H8H 70/50/20)	<19 (18° + 37°)
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Type	No dim
Safety Class	I
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Ask our sales department about the possibilities for:

- Extra LED options from the LUXEON Stylist Series (see page 42)

NORDIC ALUMINIUM

ITEM SPECIFICATIONS

Description	18°		37°		60°		mA	W	Lm/W	CRI (typ.)	Pf
	Item code	UGR	Item code	UGR	Item code	UGR					
Luna AS White 3000 Lm 3000K CRI80	100605225	14.9	100605226	16.0	100605227	20.4	800	31,7	95	82	0.95
Luna AS White 2500 Lm 3000K CRI96	100605231	14.3	100605232	15.3	100605233	19.8	800	31,7	79	96	0.95
Luna AS White 3400 Lm 4000K CRI80	100605228	15.4	100605229	16.4	100605230	20.8	800	31,7	107	82	0.95
Luna AS Grey 3000 Lm 3000K CRI80	100605216	14.9	100605217	16.0	100605218	20.4	800	31,7	95	82	0.95
Luna AS Grey 2500 Lm 3000K CRI96	100605222	14.3	100605223	15.3	100605224	19.8	800	31,7	79	96	0.95
Luna AS Grey 3400 Lm 4000K CRI80	100605219	15.4	100605220	16.4	100605221	20.8	800	31,7	107	82	0.95
Luna AS Black 3000 Lm 3000K CRI80	100605207	14.9	100605208	16.0	100605209	20.4	800	31,7	95	82	0.95
Luna AS Black 2500 Lm 3000K CRI96	100605213	14.3	100605214	15.3	100605215	19.8	800	31,7	79	96	0.95
Luna AS Black 3400 Lm 4000K CRI80	100605210	15.4	100605211	16.4	100605212	20.8	800	31,7	107	82	0.95

All values are measured at 230V (+/- 7%).

SPECIFICATIONS

Colour(s)	Housing / Reflector ring
	Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	24° / 60°
Fixture material	Housing: Die cast aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

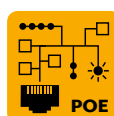
This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Sensor luminaires turn on for 4 minutes after detecting movement. A different time can be set for large orders.



Plug & Play Solutions prefab see page 188



ITEM SPECIFICATIONS

Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
SensorOmnia 75 LV 600 Lm 3000K 24°	100610240	100610264	100610276	100610252	100610288	100610312	100610324	100610300
SensorOmnia 75 LV 600 Lm 3000K 60°	100610242	100610266	100610278	100610254	100610290	100610314	100610326	100610302
SensorOmnia 75 LV 600 Lm 4000K 24°	100610244	100610268	100610280	100610256	100610292	100610316	100610328	100610304
SensorOmnia 75 LV 600 Lm 4000K 60°	100610246	100610270	100610282	100610258	100610294	100610318	100610330	100610306

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
SensorOmnia 75 LV 600 Lm 3000K 24°	Incl. PSU	220-240V	8	75	83	16.2	0.6	II
SensorOmnia 75 LV 600 Lm 3000K 60°	Incl. PSU	220-240V	8	75	83	22.0	0.6	II
SensorOmnia 75 LV 600 Lm 4000K 24°	Incl. PSU	220-240V	8	75	83	16.2	0.6	II
SensorOmnia 75 LV 600 Lm 4000K 60°	Incl. PSU	220-240V	8	75	83	22.0	0.6	II

All values are measured at 230V (+/- 7%).



SensorCosmos 75



← →
ø 90 mm

COLOURS



Matt white
RAL 9016



Matt grey
RAL 9006



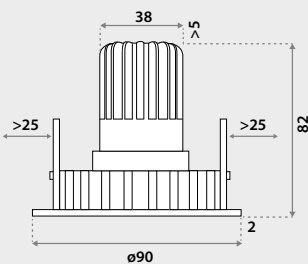
Matt black
RAL 9005

SPRINGS

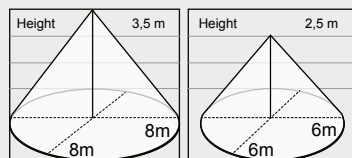


Standard with concrete-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



DETECTION AREA



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	24° / 60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

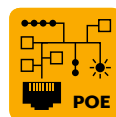
This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Sensor luminaires turn on for 4 minutes after detecting movement. A different time can be set for large orders.



Plug & Play Solutions prefab see page 188



ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
SensorCosmos 75 LV 600 Lm 3000K 24°	100606648	100606612	100606576
SensorCosmos 75 LV 600 Lm 3000K 60°	100606650	100606614	100606578
SensorCosmos 75 LV 600 Lm 4000K 24°	100606660	100606624	100606588
SensorCosmos 75 LV 600 Lm 4000K 60°	100606662	100606626	100606590

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
SensorCosmos 75 LV 600 Lm 3000K 24°	Incl. PSU	220-240V	8	75	83	16.2	0.6	II
SensorCosmos 75 LV 600 Lm 3000K 60°	Incl. PSU	220-240V	8	75	83	22.0	0.6	II
SensorCosmos 75 LV 600 Lm 4000K 24°	Incl. PSU	220-240V	8	75	83	16.2	0.6	II
SensorCosmos 75 LV 600 Lm 4000K 60°	Incl. PSU	220-240V	8	75	83	22.0	0.6	II

All values are measured at 230V (+/- 7%).



SENSORCOSMOS 75 (FIXED) - SENSOR EQUIPPED SPOTLIGHTS

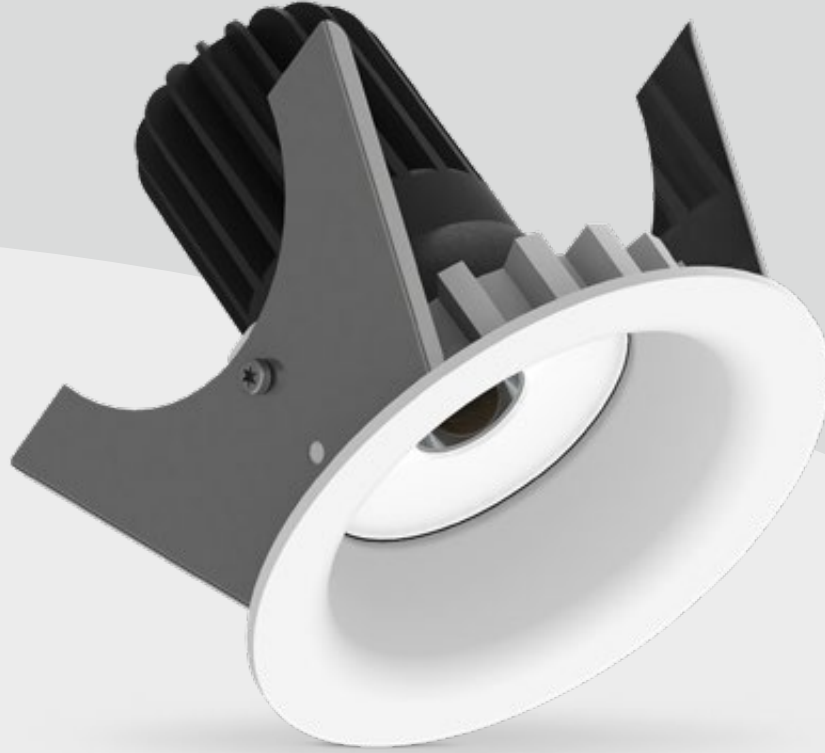




Sensor equipped spotlights

-
SensorCosmos 75

SensorLuna 75



← →
ø 90 mm

COLOURS

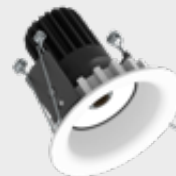


Matt white
RAL 9016



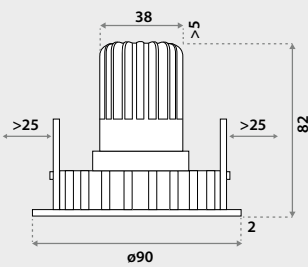
Matt black
RAL 9005

SPRINGS

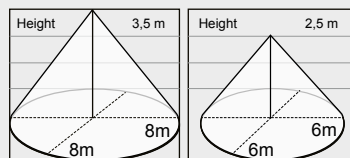


Standard with concrete-spring. Also available as above ws (wire-spring) version.

DIMENSIONS



DETECTION AREA



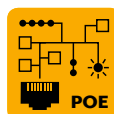
SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour black	Matt black RAL 9005
Beam angle (FWHM)	24° / 60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Sensor luminaires turn on for 4 minutes after detecting movement. A different time can be set for large orders.



Plug & Play Solutions prefab see page 188



ITEM SPECIFICATIONS

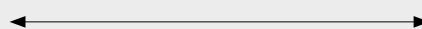
Description	Item code	
	Matt white	Matt black
SensorLuna 75 LV-600 Lm 3000K 24°	100606415	100606379
SensorLuna 75 LV-600 Lm 3000K 60°	100606417	100606381
SensorLuna 75 LV-600 Lm 4000K 24°	100606427	100606391
SensorLuna 75 LV-600 Lm 4000K 60°	100606429	100606393

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
SensorLuna 75 LV-600 Lm 3000K 24°	Incl. PSU	220-240V	8	75	83	16.2	0.6	II
SensorLuna 75 LV-600 Lm 3000K 60°	Incl. PSU	220-240V	8	75	83	22.0	0.6	II
SensorLuna 75 LV-600 Lm 4000K 24°	Incl. PSU	220-240V	8	75	83	16.2	0.6	II
SensorLuna 75 LV-600 Lm 4000K 60°	Incl. PSU	220-240V	8	75	83	22.0	0.6	II

All values are measured at 230V (+/- 7%).



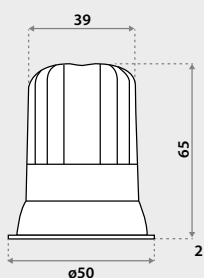
LM SensorSirius 50



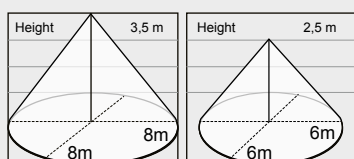
ø 50 mm

LM SENSORSIRIUS (FIXED) - SENSOR EQUIPPED SPOTLIGHTS

DIMENSIONS



DETECTION AREA



SPECIFICATIONS

Colour black	Matt black RAL 9005
Beam angle (FWHM)	24° / 60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

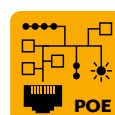
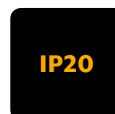
This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Sensor luminaires turn on for 4 minutes after detecting movement. A different time can be set for large orders.



Plug & Play Solutions prefab see page 188



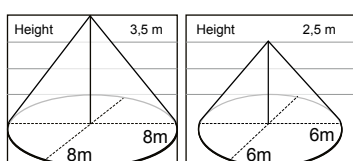
ITEM SPECIFICATIONS

Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
LM SensorSirius 50 LV 24° 3000K	100607232	Incl. PSU	220-240V	8	75	83	19.9	0.6	II
LM SensorSirius 50 LV 60° 3000K	100607237	Incl. PSU	220-240V	8	75	83	25.2	0.6	II
LM SensorSirius 50 LV 24° 4000K	100607234	Incl. PSU	220-240V	8	75	83	19.9	0.6	II
LM SensorSirius 50 LV 60° 4000K	100607239	Incl. PSU	220-240V	8	75	83	25.2	0.6	II

All values are measured at 230V (+/- 7%).



DETECTION AREA



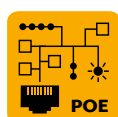
SPECIFICATIONS

Colour(s)	Housing / Reflector ring Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012



Sensor luminaires turn on for 4 minutes after detecting movement. A different time can be set for large orders.



Plug & Play Solutions prefab see page 188



ITEM SPECIFICATIONS

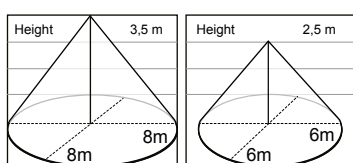
Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
SensorTygo 100 LV-600 Lm 3000K	100610922	100610925	100610919	100610916	100610910	100610913	100610907	100610904
SensorTygo 100 LV-600 Lm 4000K	100610923	100610926	100610920	100610917	100610911	100610914	100610908	100610905

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
SensorTygo 100 LV-600 Lm 3000K	Incl. PSU	220-240V	8	75	83	22.0	0.6	II
SensorTygo 100 LV-600 Lm 4000K	Incl. PSU	220-240V	8	75	83	22.0	0.6	II

All values are measured at 230V (+/- 7%).



DETECTION AREA



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

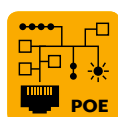
This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Sensor luminaires turn on for 4 minutes after detecting movement. A different time can be set for large orders.



Plug & Play Solutions prefab see page 188



ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
SensorTucano 100 LV-600 Lm 3000K	100605534	100605531	100609794
SensorTucano 100 LV-600 Lm 4000K	100605535	100605532	100609795

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
SensorTucano 100 LV-600 Lm 3000K	Incl. PSU	220-240V	8	75	83	22.0	0.6	II
SensorTucano 100 LV-600 Lm 4000K	Incl. PSU	220-240V	8	75	83	22.0	0.6	II

All values are measured at 230V (+/- 7%).



Onix

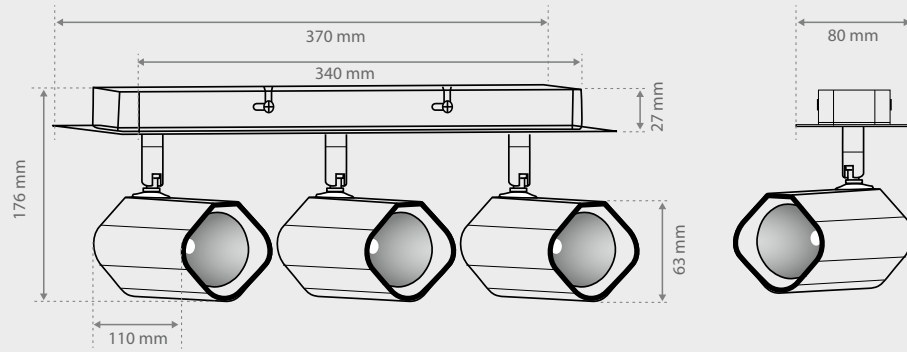
ONIX - SURFACE MOUNTED



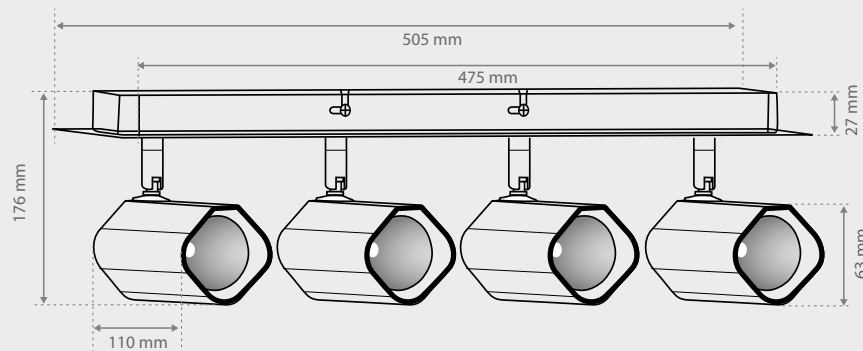
63 mm

DIMENSIONS

3x10W



4x10W



DRIVER DATASHEET

Driver data	DIM 3x10W	DIM 4x10W
Input rated Voltage	AC230V	AC230V
Frequency	50Hz	50Hz
Input Voltage	AC200-240V	AC200-240V
Efficiency	≥79%	≥79%
Total load Wattage	3*10W±0.5W	4*10W±0.5W
Power Factor	≥0.9	≥0.9
Rated input current	≤3*0.06A	≤4*0.06A
Full load output Voltage	DC28-38V	DC28-38V
Rated output current	3*230mA	4*230mA
Dimming	range 8%-100%	range 8%-100%
Dimmer	Triac dimmers	Triac dimmers
Short circuit protection	PASS	PASS
Over voltage protection	PASS	PASS
Over temperature protection	PASS	PASS
THD	<20%	<20%
Withstand voltage	AC1500V	AC1500V

SPECIFICATIONS

Color	RAL 9005 matte black
Input voltage	200-240V - 50/60 Hz
Wattage available	30W / 40W
Color Rendering Index (CRI)	≥80
Material	Diecast aluminium / metal
Environment	Indoor
IP rate	IP20
IK rate	IK02
Operating temperature (Ta)	-20°C - 45°C
Safety norms	EN60598 / EN62031 / EN62471
EMC norms	EN55015
Expected lifetime at 25°C (L70)	40.000 hrs
Warranty	5 years
Energy Class	A

This luminaire contains built-in LED lamps.

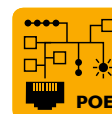
The lamps cannot be changed in the luminaire.

EU 874/2012

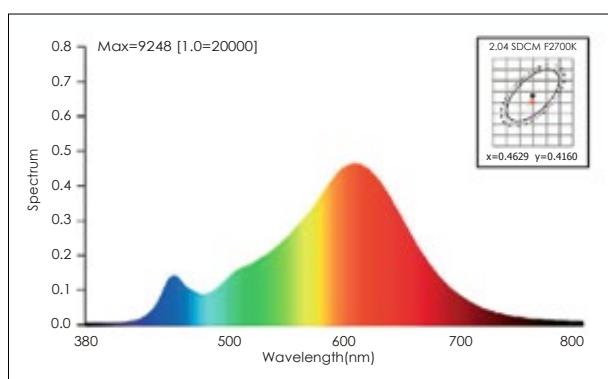
Ask our sales department about the possibilities for:

- 3000K or 4000K or 5000K
- High CRI (RA)
- External driver (no-dim /1-10V / DALI)

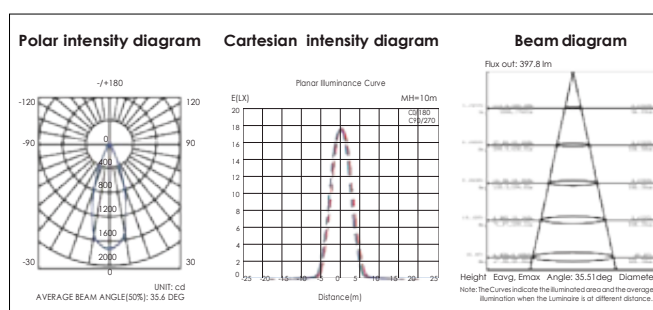
IP20



SPECTRAL DISTRIBUTION (2700K)



PHOTOMETRIC DIAGRAM



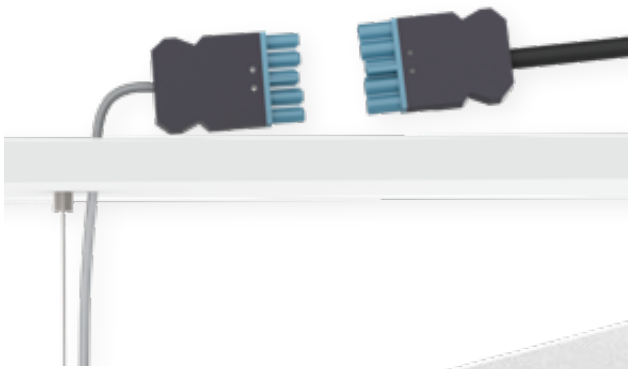
PRODUCT VARIATIONS

Description	Item code Black	Power	Voltage	Power Factor	Lumen (±5%)	Beam angle	CCT	Lifespan	CRI	Dimmable
Onix 3x10W LED 2700K dimmable	200400111	30W	AC230V	≥0.9	2100	15°/24°/36°/60°	2700K	40.000 hrs	≥80	Yes
Onix 4x10W LED 2700K dimmable	200400114	40W	AC230V	≥0.9	2800	15°/24°/36°/60°	2700K	40.000 hrs	≥80	Yes

All values are measured at 230V (+/- 7%).



Atrix Line



TECHNOLOGIE - ATRIX LINE

Kenmerken en voordelen

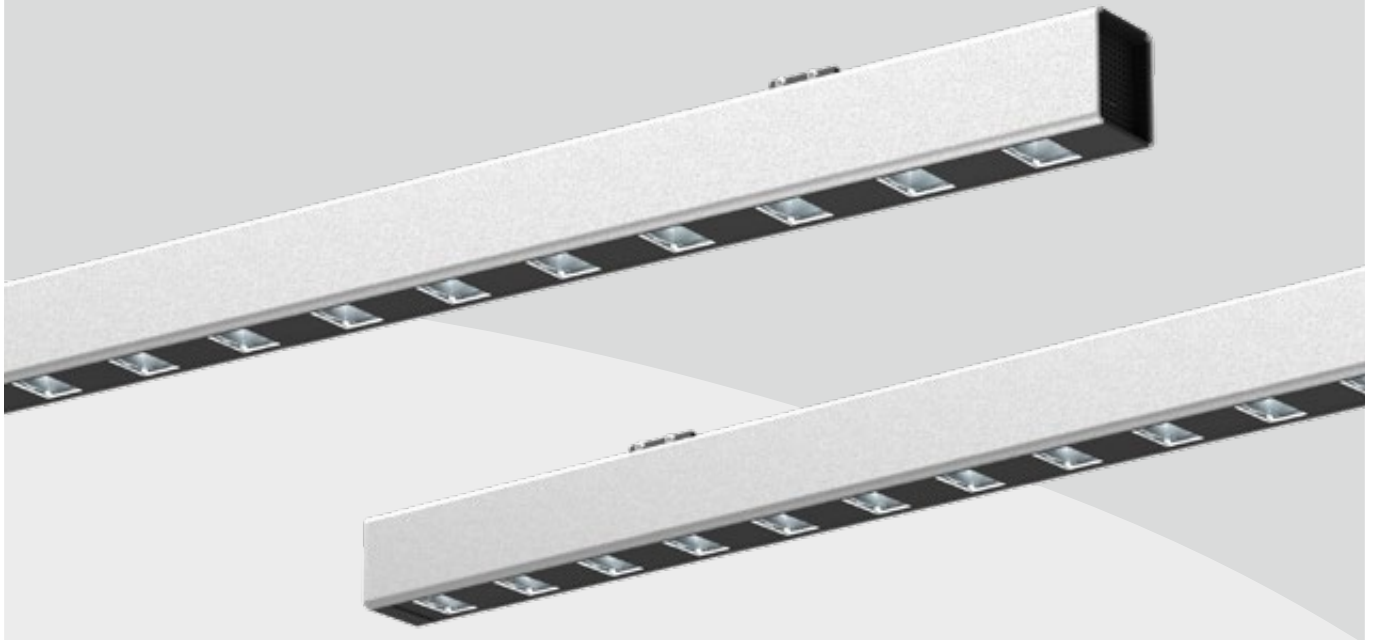
- Eigentijds ontwerp
- Revolutionair optisch systeem van Bartenbach
- Kleine afmetingen van slechts 1062x39x50mm
- Geïntegreerde hoogwaardige voeding
- Plug & Play-verbinding via GST18-stekker
- Optie voor indirect licht (D / I)



Atrix line SM

NEW

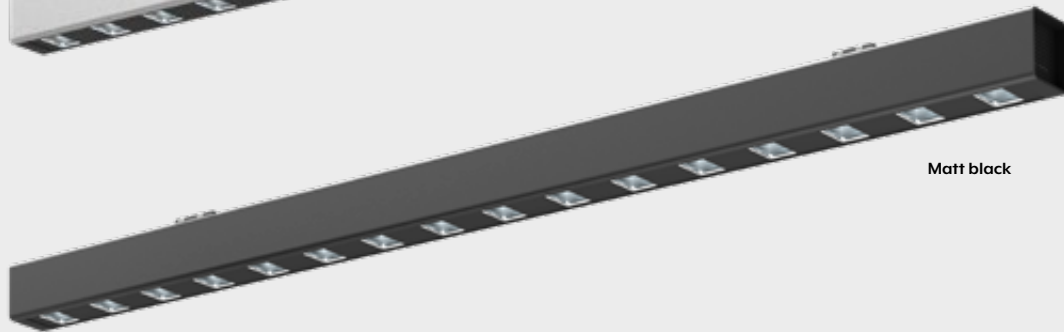
ATRIX LINE SM (SURFACE MOUNTED) - PROFILES



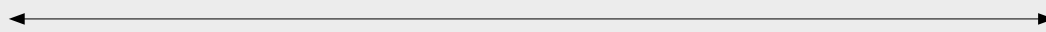
COLOURS



Aluminium

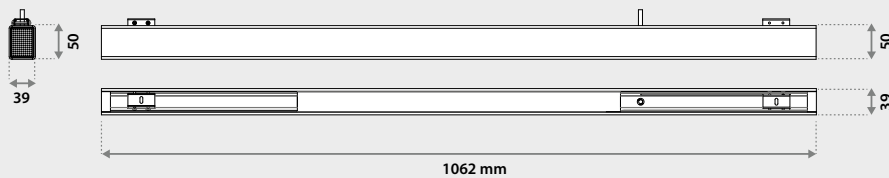


Matt black



1062x39x50 mm

DIMENSIONS



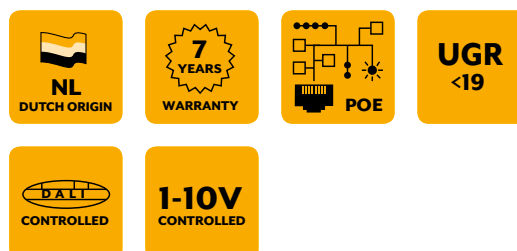
SPECIFICATIONS

Colour(s)	Matt black RAL 9005 Aluminium
Beam angle (FWHM)	Standaard 85° (100° FWTM) On request 75° (95° FWTM)
UGR (4H8H 70/50/20)	<19
Fixture material	Housing: Aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



LUMILEDS 57C TCI wieland

CHOOSE YOUR LUMEN OUTPUT

Item		Direction	mA	W	Lumen Output		Lumen / Watt	
					3000K	4000K	3000K	4000K
Atrix Line D	Special request	Direct-light	280	13,0	1650	1750	127	135
Atrix Line D	Special request	Direct-light	400	21,3	2350	2500	110	117
Atrix Line D	Standard	Direct-light	640	34,1	3750	3950	110	116

ITEM SPECIFICATIONS

Description	Item code		Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
	Black	Aluminium								
Atrix Line SM-D 3750 Lm 3000K No dim	100610995	100611001	Incl. PSU	220-240V	34,1	110	83	17,0	0,95	I
Atrix Line SM-D 3750 Lm 3000K 1-10V & Push	100610996	100611002	Incl. PSU	220-240V	34,1	110	83	17,0	0,96	I
Atrix Line SM-D 3750 Lm 3000K Dali	100610997	100611003	Incl. PSU	220-240V	34,1	110	83	17,0	0,95	I
Atrix Line SM-D 3950 Lm 4000K No dim	100610998	100611004	Incl. PSU	220-240V	34,1	116	83	17,2	0,95	I
Atrix Line SM-D 3950 Lm 4000K 1-10V & Push	100610999	100611005	Incl. PSU	220-240V	34,1	116	83	17,2	0,96	I
Atrix Line SM-D 3950 Lm 4000K Dali	100611000	100611006	Incl. PSU	220-240V	34,1	116	83	17,2	0,95	I

All values are measured at 230V (+/- 7%).



ATRIX LINE SM (SURFACE MOUNTED) - PROFILES



Profiles

-
Atrix line SM

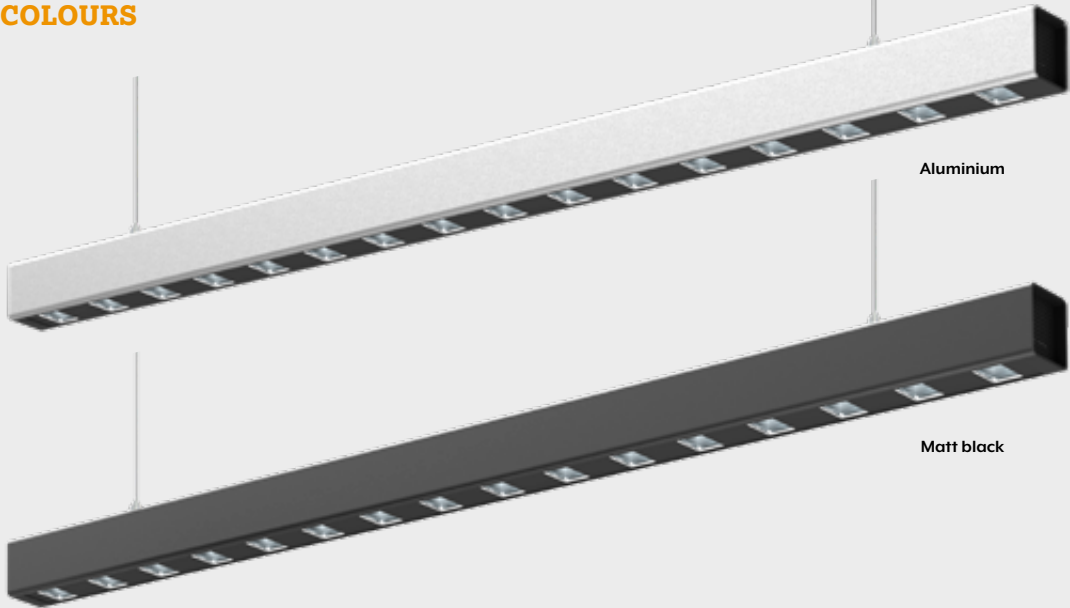


Atrix line P

NEW

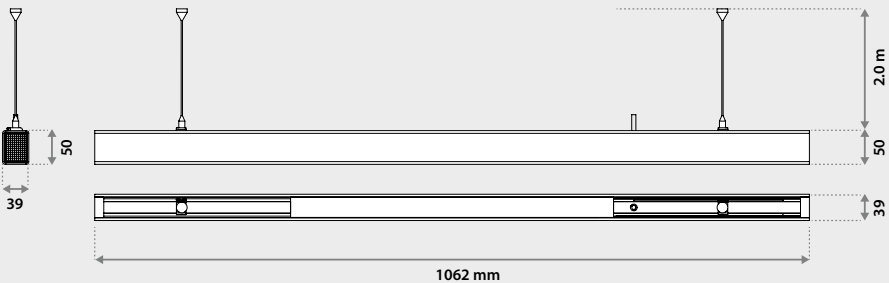
ATRIX LINE P (PENDENT) - PROFILES

COLOURS



1062x39x50 mm

DIMENSIONS



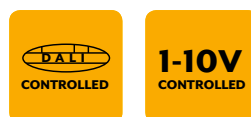
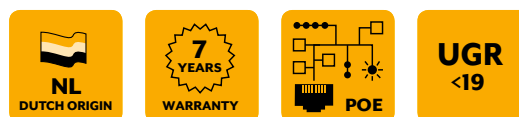
SPECIFICATIONS

Colour(s)	Matt black RAL 9005 Aluminium
Beam angle (FWHM)	Standaard 85° (100° FWTM) On request 75° (95° FWTM)
UGR (4H8H 70/50/20)	<19
Fixture material	Housing: Aluminium Reflector glass: Polycarbonate
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A+

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



LUMILEDS SHC TCI wiewand



Included in the package (pendent set).

CHOOSE YOUR LUMEN OUTPUT

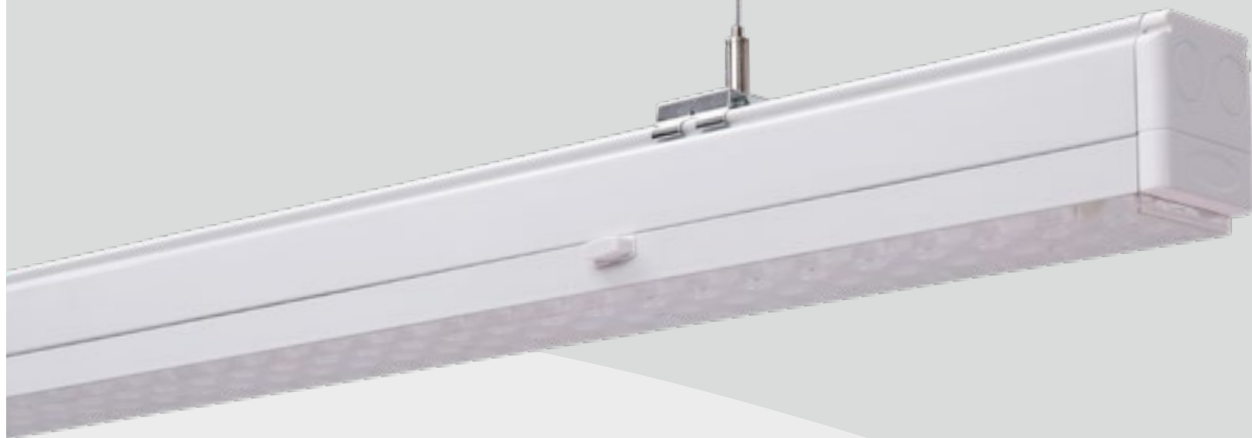
Item		Direction	mA	W	Lumen Output		Lumen / Watt	
					3000K	4000K	3000K	4000K
Atrix Line D/I	Standard	Indirect-light (1/3)	133	7,1	800	850	113	120
		Direct-light (2/3)	267	14,2	1550	1650	109	116
Atrix Line D/I	Special request	Indirect-light (1/3)	213	11,4	1250	1325	110	116
		Direct-light (2/3)	427	21,3	2500	2625	117	123
Atrix Line D	Special request	Direct-light	280	13,0	1650	1750	127	135
Atrix Line D	Special request	Direct-light	400	21,3	2350	2500	110	117
Atrix Line D	Standard	Direct-light	640	34,1	3750	3950	110	116

ITEM SPECIFICATIONS

Description	Item code		Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
	Black	Aluminium								
Atrix Line P-D 3750 Lm 3000K No dim	100611007	100611019	Incl. PSU	220-240V	34,1	110	83	17,0	0,95	I
Atrix Line P-D 3750 Lm 3000K 1-10V & Push	100611008	100611020	Incl. PSU	220-240V	34,1	110	83	17,0	0,96	I
Atrix Line P-D 3750 Lm 3000K Dali	100611009	100611021	Incl. PSU	220-240V	34,1	110	83	17,0	0,95	I
Atrix Line P-D 3950 Lm 4000K No dim	100611010	100611022	Incl. PSU	220-240V	34,1	116	83	17,2	0,95	I
Atrix Line P-D 3950 Lm 4000K 1-10V & Push	100611011	100611023	Incl. PSU	220-240V	34,1	116	83	17,2	0,96	I
Atrix Line P-D 3950 Lm 4000K Dali	100611012	100611024	Incl. PSU	220-240V	34,1	116	83	17,2	0,95	I
Atrix Line P-D/1 1550/800 Lm 3000K No dim	100611013	100611025	Incl. PSU	220-240V	21,3	110	83	16,6	0,95	I
Atrix Line P-D/1 1550/800 Lm 3000K 1-10V & Push	100611014	100611026	Incl. PSU	220-240V	21,3	110	83	16,6	0,96	I
Atrix Line P-D/1 1550/800 Lm 3000K Dali	100611015	100611027	Incl. PSU	220-240V	21,3	110	83	16,6	0,95	I
Atrix Line P-D/1 1650/850 Lm 4000K No dim	100611016	100611028	Incl. PSU	220-240V	21,3	117	83	16,9	0,95	I
Atrix Line P-D/1 1650/850 Lm 4000K 1-10V & Push	100611017	100611029	Incl. PSU	220-240V	21,3	117	83	16,9	0,96	I
Atrix Line P-D/1 1650/850 Lm 4000K Dali	100611018	100611030	Incl. PSU	220-240V	21,3	117	83	16,9	0,95	I

All values are measured at 230V (+/- 7%).

Titan LED line system

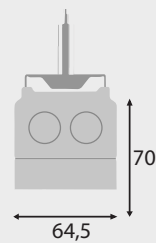


1150 / 1437 mm

SPECIFICATIONS

Color	White RAL 9003
Input voltage	200-240V - 50/60 Hz
Color Rendering Index (CRI)	> 80
Material Base	Alumium
Material Diffuser - Lenses	PMMA or Polycarbonate
Enviornment	Indoor
Protection against water	IP20 / IP54
UGR	18-22 (except 120° beam angle)
lm/W	130 lm/W
Powerfactor (Pf)	> 0,9
Driver options	1-10V dim / DALI dim
Sensor module options	Integrated Microwave Sensor 2 step ON-OFF or 3 step HIGH-LOW-OFF
Emergency module options	yes on selected models, 1hour
Operating temperature	-20°C / + 40°C
Safety norms	EN60598-1 / EN60598-2 / EN61347-1 / EN61347-2-13 / EN62471 / EN62493
EMC norms	EN55015 / EN61547
Expected lifetime at 30°C (L80/B10)	50.000 hrs
Warranty	5 year

DIMENSIONS



This luminaire contains built-in LED lamps.

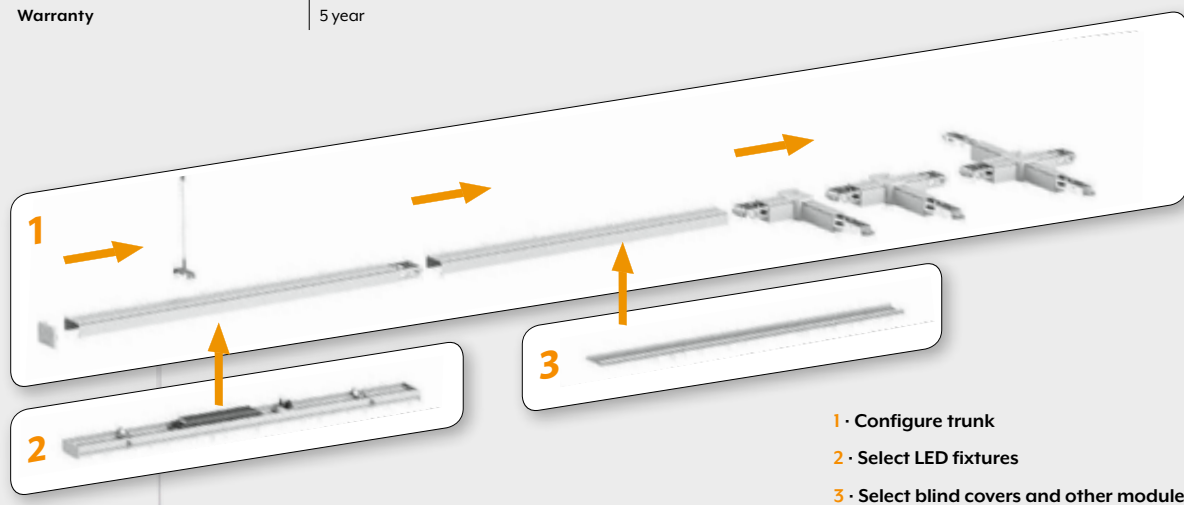
The lamps cannot be changed in the luminaire.

EU 874/2012

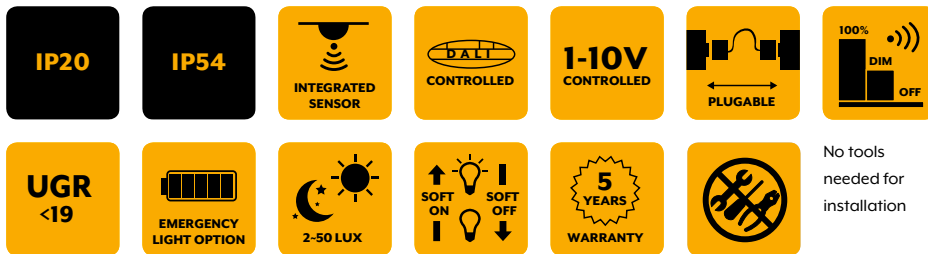
Emergency light option see page 186

Also available on request:

- LED in 3000K
- LED in 5000K
- DALI Sensor modules
- High Bay motion sensor (6*30 m)
- High Bay emergency 1h/3h
- Cable conduit above TITAN for extra cable way



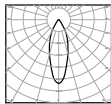
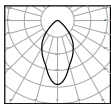
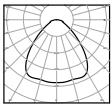
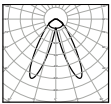
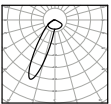
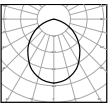
- 1 - Configure trunk
- 2 - Select LED fixtures
- 3 - Select blind covers and other modules



DRIVER DATASHEET

Product Specifications 1150mm

1	1150mm trunk	Item code
	Titan Trunk 1150mm 7x2,5mm ² white for 1150mm fixtures	400103000
	Titan Trunk 2300mm 7x2,5mm ² white for 1150mm fixtures	400103001

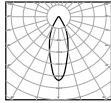
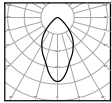
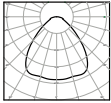
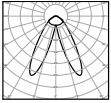
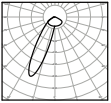
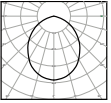
2	1150mm fixtures	Item code	Item code	Item code	Item code	Item code	Item code
	Titan LED fixture* 1150mm 4000K 1-10V dim max. 48W**	400103006	400103008	400103010	400103014	400103016	400103012
	Titan LED fixture* 1150mm 4000K DALI dim max. 48W**	400103007	400103009	400103011	400103015	400103017	400103013
	**Max.48W. SLM to 45W/42W/40W/38W/35W/32W/30W						
		30° beam	60° beam	90° beam	25° D beam	25° L-R beam	120° beam

3	1150mm modules	Item code
	Titan emergency 1h option to fixture	400103052
	Titan motion sensor on-off for 1150mm module	400103050
	Titan motion sensor 1-10V dim for 1150mm module	400103059

3	1150mm modules	Item code
	Titan blind cover PC 1150mm white	400103034
	Titan blind cover ALU 1150mm white	400103036
	Titan 3F track module 1150mm white	400103038

Product Specifications 1437mm

1	1437mm trunk	Item code
	Titan Trunk 1437mm 7x2,5mm ² white for 1437mm fixtures	400103003
	Titan Trunk 1437mm 7x2,5mm ² white for 1437mm fixtures IP54	400104000
	Titan Trunk 2874mm 7x2,5mm ² white for 1437mm fixtures	400103004
	Titan Trunk 2874mm 7x2,5mm ² white for 1437mm fixtures IP54	400104001

2	1437mm fixtures	Item code	Item code	Item code	Item code	Item code	Item code
	Titan LED fixture* 1437mm 4000K 1-10V dim max. 72W**	400103020	400103022	400103024	400103028	400103030	400103026
	Titan LED fixture* 1437mm 4000K DALI dim max. 72W**	400103021	400103023	400103025	400103029	400103031	400103027
	**Max.72W. SLM to 66W/62W/58W/54W/50W/46W/42W						
		30° beam	60° beam	90° beam	25° D beam	25° L-R beam	120° beam

3	1437mm modules	Item code
	Titan emergency 1h option to fixture	400103052
	Titan motion sensor on-off for 1437mm module	400103051
	Titan motion sensor 1-10V dim for 1437mm module	400103060
	Titan blind cover PC 1437mm white	400103035

3	1437mm modules	Item code
	Titan blind cover PC 1437mm white IP54	400104004
	Titan blind cover PC 2874mm white IP54	400104005
	Titan blind cover ALU 1437mm white	400103037
	Titan 3F track module 1437mm white	400103039

Accessoires and Connecting 1150 and 1437mm

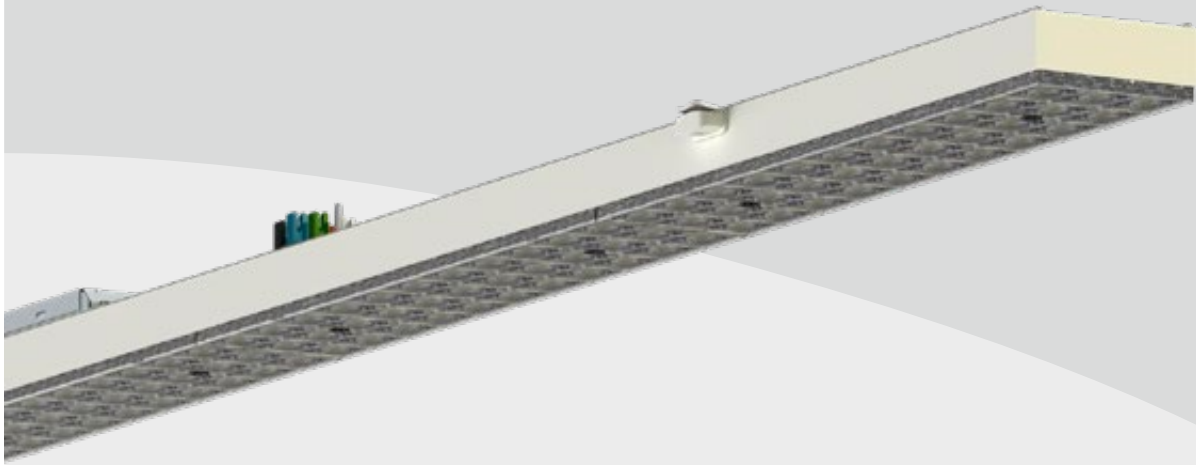
1	Accessoires and Connecting	Item code
	Titan L connectie incl 7x2,5mm ²	400103047
	Titan T connectie incl 7x2,5mm ²	400103048
	Titan X connectie incl 7x2,5mm ²	400103049
	Titan cable clamp PG13.5	400103040
	Titan 230Vac input cable connector (top cable entry)	400103041
	Titan 230Vac input box (start unit)	400103042
	Titan 230Vac input box (start unit) IP54	400104006
	Titan endcap	400103043
	Titan endcap IP54	400104007
	Titan mounting clip ceiling	400103044
	Titan mounting clip pendel steel wire 2m	400103045
	Titan mounting clip pendel steel chain 2m	400103046

OPTION

LUNA AS 3F (see page 126) and OXFORD XL (see page 124) trackspot can be used in the TITAN line system.



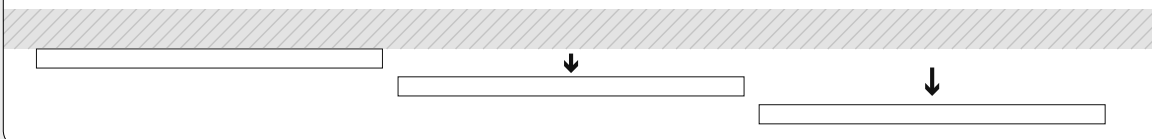
Refix (Replacement fixtures)



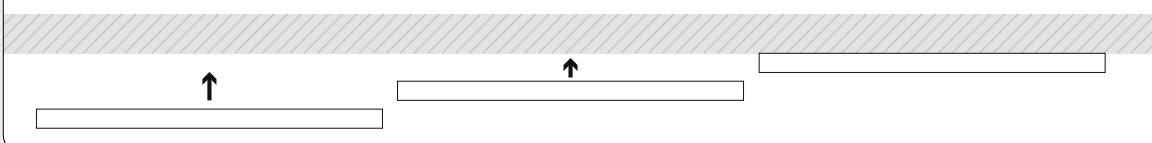
REFIX - SURFACE MOUNTED

INSTALLATION

STEP1: Remove old T8 (TLD) or T5 fixtures



STEP2: Install Refix LED Fixture (on existing lighting line)



STEP3: Start saving energy > 50%

Available for all common used lighting line brands.

OPTIONAL OPTIONS

Description	Item code
Emergency 1h option to fixture	400501101
Emergency 3h option to fixture	400501102

SPECIFICATIONS

Color	White RAL 9003
Input voltage	200-240V - 50/60 Hz
Color Rendering Index (CRI)	> 80
Material Base	Aluminium
Material Diffuser - Lenses	PMMA or Polycarbonate
Environment	Indoor
Protection against water	IP20
UGR	< 16 (except 120° beam angle)
lm/W	130 lm/W
Powerfactor (Pf)	> 0,9
Driver options	1-10V dim / DALI dim
Sensor module options	Integrated Microwave Sensor 2 step ON-OFF or 3 step HIGH-LOW-OFF
Emergency module options	yes on selected models, 1 hour / 3 hours
Operating temperature	-20°C / + 40°C
Safety norms	EN60598-1 / EN60598-2 / EN61347-1 / EN61347-2-13 / EN62471 / EN62493 / EN 62384
EMC norms	EN55015 / EN61547
Expected lifetime at 30°C (L80/B10)	50.000 hrs
Warranty	5 years
Energy Class	A

This luminaire contains built-in LED lamps.

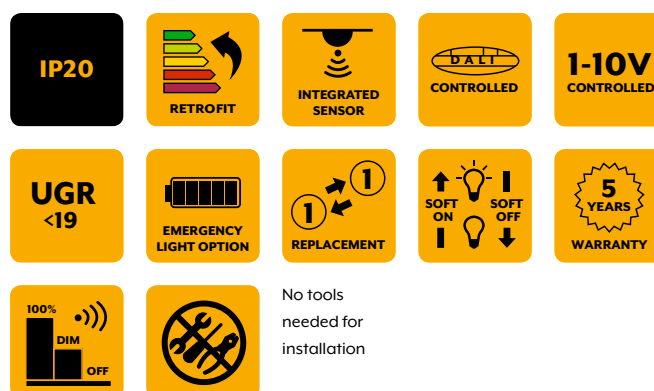
The lamps cannot be changed in the luminaire.

EU 874/2012

Emergency light option see page 186

Also available on request:

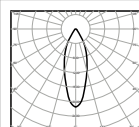
- LED in 3000K
- LED in 5000K
- LED in 6000K
- 25° D beam lens
- 25° L-R beam lens



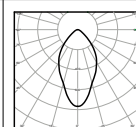
PRODUCT SPECIFICATION

Description Refix Fixtures	Item code	Item code	Item code	Item code
Trinka LED Refix 4000K 1-10V Dim max. 72W 8900 lm**	400500100	400500101	400500102	400500103
Vektor LED Refix 4000K 1-10V Dim max. 72W 8900 lm**	400500200	400500201	400500202	400500203
Regina LED Refix 4000K 1-10V Dim max. 72W 8900 lm**	400500300	400500301	400500302	400500303
Norine LED Refix 4000K 1-10V Dim max. 72W 8900 lm**	400500400	400500401	400500402	400500403
Philia LED Refix 4000K 1-10V Dim max. 72W 8900 lm**	400500500	400500501	400500502	400500503
Trinka LED Refix 4000K DALI Dim max. 72W 8900 lm**	400500600	400500601	400500602	400500603
Vektor LED Refix 4000K DALI Dim max. 72W 8900 lm**	400500700	400500701	400500702	400500703
Regina LED Refix 4000K DALI Dim max. 72W 8900 lm**	400500800	400500801	400500802	400500803
Norine LED Refix 4000K DALI Dim max. 72W 8900 lm**	400500900	400500901	400500902	400500903
Philia LED Refix 4000K DALI Dim max. 72W 8900 lm**	400501000	400501001	400501002	400501003

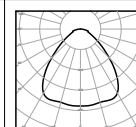
**Max.72W. SLM to 66W/62W/58W/54W/50W/46W/42W



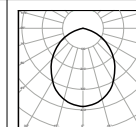
30° beam



60° beam



90° beam

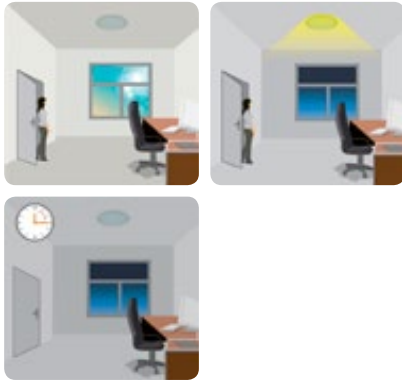


120° beam

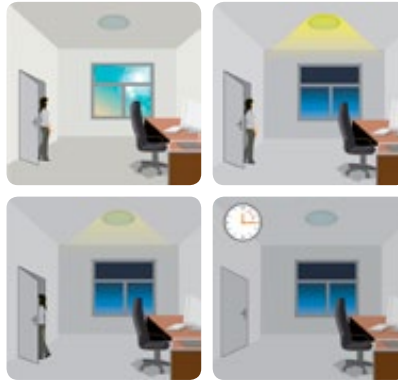
Motion sensor for Refix module	On-off	1-10V Dim	DALI Dim	Daglicht (1-10V)
	Item code	Item code	Item code	Item code
Trinka	400501105	400501106	400501107	400501108
Vektor	400501205	400501206	400501207	400501208
Regina	400501305	400501306	400501307	400501308
Norine	400501405	400501406	400501407	400501408
Philia	400501505	400501506	400501507	400501508

MICROWAVE SENSOR

on - off



high - low - off



SPECIFICATIONS

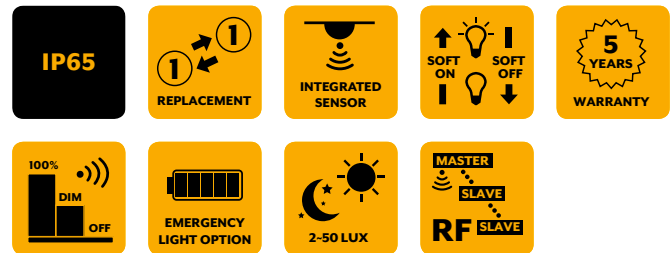
Color	White / Black / Grey
Input voltage	220-240V - 50/60 Hz
Wattage available	18W max. / 28W max. models Max. Setting adjustable
Color Rendering Index (CRI)	80
Material	PC
Environment	Indoor / Outdoor
Protection against water	PC-PC IP65
Protection against shock	IK10
Powerfactor (Pf)	> 0,9
Driver options	non-dim / 1-10V dim / DALI dim / ON-OFF sensor / 3step sensor dim
Emergency options	yes on selected models, 1hour / 3 hour
Operating temperature	-20°C / + 50°C
Safety norms	EN61347-1 / EN61347-2-13
EMC norms	EN55015 / EN61547
Quantity per carton	5 pcs
Expected lifetime at 25°C (L70)	50.000 hrs
Warranty	5 year
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012

Emergency light option see page 186



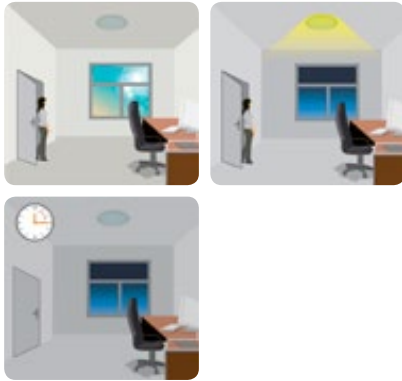
ITEM SPECIFICATIONS

Description	Item code			Type	W	Lm/W	Input	CRI(typ.)	Pf
	Matt white	Matt grey	Matt black						
NAPOLI 1 Ø290x103mm									
Napoli 1 1944lm 3000K No dim	20071324	20071200	20071220	Incl. PSU	18	108	220-240V	>80	>0.9
Napoli 1 1980lm 4000K No dim	20071325	20071201	20071221	Incl. PSU	18	110	220-240V	>80	>0.9
Napoli 1 1944lm 3000K 1-10V dim	20071327	20071202	20071222	Incl. PSU	18	108	220-240V	>80	>0.9
Napoli 1 1980lm 4000K 1-10V dim	20071328	20071203	20071223	Incl. PSU	18	110	220-240V	>80	>0.9
Napoli 1 1764lm 3000K DALI dim	20071311	20071204	20071224	Incl. PSU	18	98	220-240V	>80	>0.9
Napoli 1 1764lm 4000K DALI dim	20071312	20071205	20071225	Incl. PSU	18	98	220-240V	>80	>0.9
Napoli 1 1890lm 3000K Sensor On-Off	20071334	20071206	20071226	Incl. PSU	18	105	220-240V	>80	>0.9
Napoli 1 1944lm 4000K Sensor On-Off	20071310	20071207	20071227	Incl. PSU	18	108	220-240V	>80	>0.9
Napoli 1 1890lm 3000K Sensor High-Low-Off	20071333	20071208	20071228	Incl. PSU	18	105	220-240V	>80	>0.9
Napoli 1 1944lm 4000K Sensor High-Low-Off	20071330	20071209	20071229	Incl. PSU	18	108	220-240V	>80	>0.9
NAPOLI 2 Ø350x105mm									
Napoli 2 3024lm 3000K No dim	20071348	20071210	20071230	Incl. PSU	28	108	220-240V	>80	>0.9
Napoli 2 3080lm 4000K No dim	20071349	20071211	20071231	Incl. PSU	28	110	220-240V	>80	>0.9
Napoli 2 3024lm 3000K 1-10V dim	20071371	20071212	20071232	Incl. PSU	28	108	220-240V	>80	>0.9
Napoli 2 3080lm 4000K 1-10V dim	20071372	20071213	20071233	Incl. PSU	28	110	220-240V	>80	>0.9
Napoli 2 2744lm 3000K DALI dim	20071373	20071214	20071234	Incl. PSU	28	98	220-240V	>80	>0.9
Napoli 2 2744lm 4000K DALI dim	20071374	20071215	20071235	Incl. PSU	28	98	220-240V	>80	>0.9
Napoli 2 2940m 3000K Sensor On-Off	20071368	20071216	20071236	Incl. PSU	28	105	220-240V	>80	>0.9
Napoli 2 3024lm 4000K Sensor On-Off	20071369	20071217	20071237	Incl. PSU	28	108	220-240V	>80	>0.9
Napoli 2 2940lm 3000K Sensor High-Low-Off	20071630	20071218	20071238	Incl. PSU	28	105	220-240V	>80	>0.9
Napoli 2 3024lm 4000K Sensor High-Low-Off	20071350	20071219	20071239	Incl. PSU	28	106	220-240V	>80	>0.9

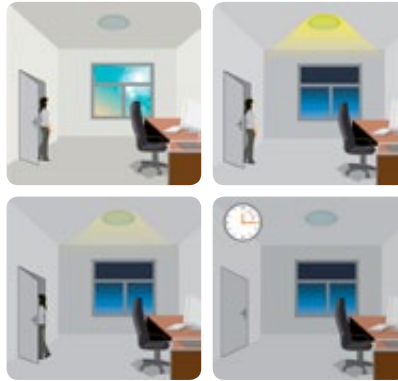
EMERGENCY	Item code
Emergency module for Napoli 1 or 2 (1 hour)	20071199

MICROWAVE SENSOR

on - off



high - low - off



SPECIFICATIONS

Color	White
Input voltage	220-240V ~ 50/60 Hz
Color Rendering Index (CRI)	80
Material Base	Metal
Material Diffuser	Acrylic
Environment	Indoor
Protection against water	IP20
Powerfactor (Pf)	> 0,9
Driver options	No Dim / 1-10V dim
Sensor options	Integrated Microwave Sensor ON-OFF or 3 step HIGH-LOW-OFF
Emergency options	yes on selected models, 1hour or 3hour
Operating temperature	-20°C / + 40°C
Safety norms	EN60598-2-1 / EN62471 / EN55015
Emergency	EN60598-2-2
Quantity per carton	4 pcs
Expected Lifetime at 25°C (L70, B10)	50.000 hrs
Warranty	5 years
Energy Class	A

This luminaire contains built-in LED lamps.

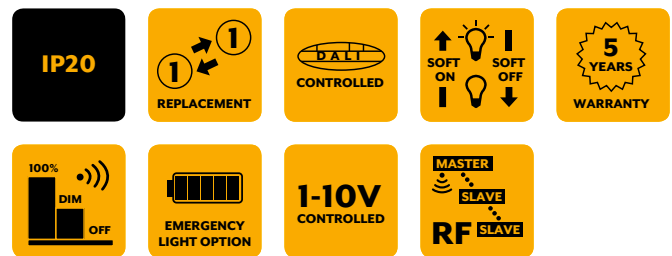
The lamps cannot be changed in the luminaire.

EU 874/2012

Emergency light option see page 186

Also available on request:

- LED in 3000K
- LED in 5700K
- DALI driver
- 1-10V driver
- RF Master-Slave
- WIFI controlled
- Emergency 1h / 3h



ITEM SPECIFICATIONS

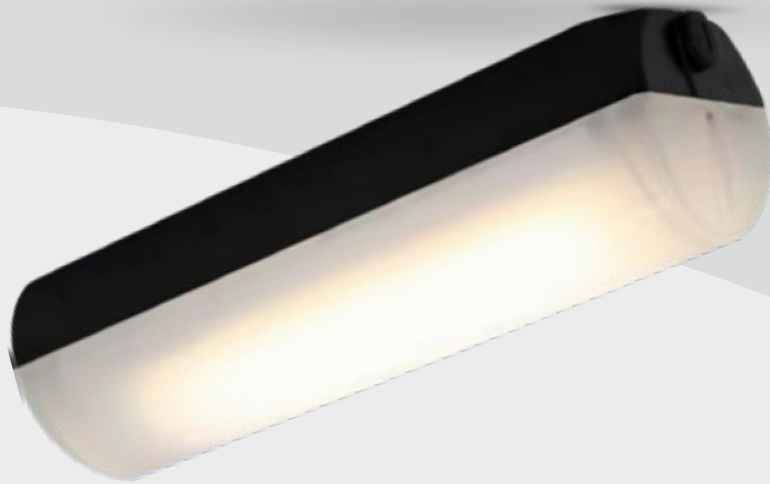
Description	Item code	Type	W	Lm/W	Input	CRI	Pf
Space Surface Mount Ø 355mm 900lm 3000K No Dim	20071651	Incl. PSU	12	75	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 960lm 4000K No Dim	20071654	Incl. PSU	12	80	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 900lm 3000K Sensor ON-OFF	20071653	Incl. PSU	12	75	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 960lm 4000K Sensor ON-OFF	20071656	Incl. PSU	12	80	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 1350lm 3000K No Dim	20071657	Incl. PSU	18	75	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 1440lm 4000K No Dim	20071662	Incl. PSU	18	80	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 1350lm 3000K Sensor ON-OFF	20071659	Incl. PSU	18	75	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 1440lm 4000K Sensor ON-OFF	20071664	Incl. PSU	18	80	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 1350lm 3000K Sensor HIGH-LOW-OFF	20071661	Incl. PSU	18	75	220-240V	>80	>0.9
Space Surface Mount Ø 355mm 1440lm 4000K Sensor HIGH-LOW-OFF	20071666	Incl. PSU	18	80	220-240V	>80	>0.9
Space Surface Mount Ø 400mm 1960lm 3000K No Dim	20071667	Incl. PSU	28	70	220-240V	>80	>0.9
Space Surface Mount Ø 400mm 2240lm 4000K No Dim	20071673	Incl. PSU	28	80	220-240V	>80	>0.9
Space Surface Mount Ø 400mm 1960m 3000K Sensor ON-OFF	20071669	Incl. PSU	28	70	220-240V	>80	>0.9
Space Surface Mount Ø 400mm 2240lm 4000K Sensor ON-OFF	20071675	Incl. PSU	28	80	220-240V	>80	>0.9
Space Surface Mount Ø 400mm 1960lm 3000K Sensor HIGH-LOW-OFF	20071671	Incl. PSU	28	70	220-240V	>80	>0.9
Space Surface Mount Ø 400mm 2240lm 4000K Sensor HIGH-LOW-OFF	20071677	Incl. PSU	28	80	220-240V	>80	>0.9
Space Surface Mount Ø 530mm 3500lm BioDynamisch 2800K-6000K incl.RC	100601232	Incl. PSU	38	92	220-240V	>80	>0.9
Space Surface Mount Ø 600mm 4800lm BioDynamisch 2800K-6000K incl.RC	100601222	Incl. PSU	56	86	220-240V	>80	>0.9

EMERGENCY	Item code
Emergency module for Napoli 1 or 2 (1 hour)	20071199

OPTIONAL ITEMS

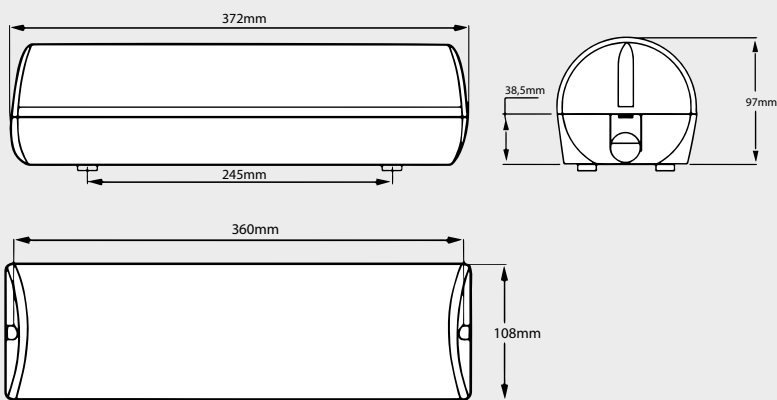
Description	Item code
Intergrated Microwave Motion Sensor 2 step ON-OFF	20071801
Intergrated Microwave Motion Sensor 3 step HIGH-LOW-OFF	20071802

Triax



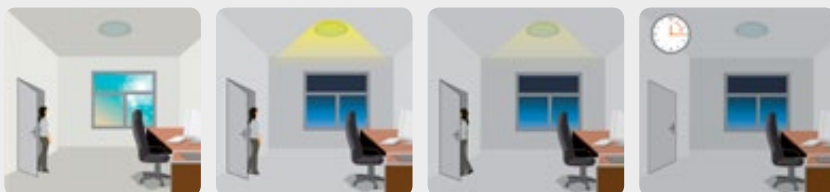
360 mm

DIMENSIONS



MICROWAVE SENSOR

high - low - off



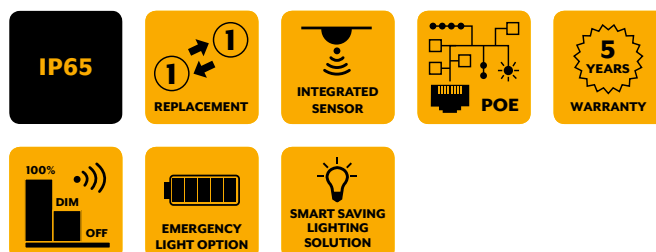
SPECIFICATIONS



Color	Black (Optional: White)
Input voltage	220-240V - 50/60 Hz
Wattage	10W max.
Color Rendering Index (CRI)	>80
Material	Aluminum-PC
Environment	Indoor / Outdoor
Protection against water	IP65
Protection against shock	IK10
Powerfactor (Pf)	> 0,9
Driver options	Output select switch 100-80-60-40-30% or motion sensor (high-low/off)
Emergency options	yes, on selected models: 1 hour
Operating temperature	-20°C / + 50°C
Safety norms	IEC60598-1/IEC60598-2-1/IEC60598-2-22/IEC62031/IEC61347-1/IEC62384
EMC norms	EN55015/IEC61000-3-2/IEC61000-3-3/EN61547
Quantity per carton	10 pcs
Expected Lifetime at 25°C (L70, B10)	50.000 hrs
Warranty	5 years
Energy Class	A

This luminaire contains built-in LED lamps.
The lamps cannot be changed in the luminaire.
EU 874/2012
Emergency light option see page 186

Also available:
· Higher wattage, 20W 1500 Lm
· Other housing mode



ITEM SPECIFICATIONS

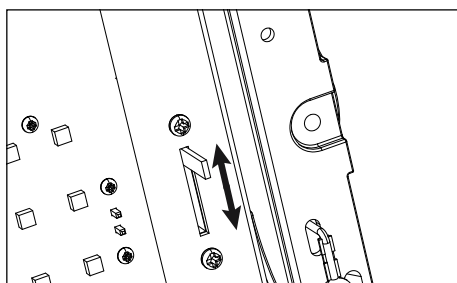
TRIAx	W (max.)	Lm (max.)	Output select Black 100-80-60-40-30%	Motion sensor high-low/off	Output select Black + 1h Emergency
Triax 4000K	10	750	20070902	20070911	20070921

TRIAx OUTPUT SELECT MODEL

Setting output select 100% - 80% - 60% - 40% - 30%

20070902

5 pos. output
Select switch

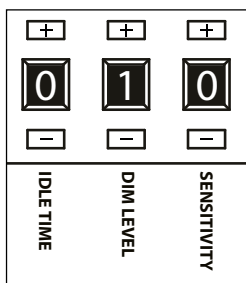


Setting	DIM LEVEL
1	100%
2	80%
3	60%
4	40%
5	30%

TRIAx MOTION SENSOR MODEL

20070911

Motion sensor
High-Low/Off



Setting	IDLE TIME	DIM LEVEL	SENSITIVITY	Approx. Diameter (m), applicable to ceiling height of 3 meters
0	15 secs	100%	Demo mode	
1	1 min	OFF	10%	1.50m
2	2 mins	N/A	25%	3.75m
3	3 mins	N/A	50%	7.50m
4	5 mins	35%	75%	11.25m
5	10 mins	50%	100%	15.00m
6	15 mins	60%	N/A	N/A
7	N/A	70%	N/A	N/A
8	N/A	80%	N/A	N/A
9	N/A	90%	Bypass motion sensing mode. Brightness stays at the DIM LEVEL setting.	

TRIAx MOTION SENSOR MODEL



	exit straight or up also final exit	exit right	exit left	exit down	exit right stair down	exit right stair up	exit left stair down	exit left stair up
Sticker = wall mounted	20080040	20080039	20080038	20080027	20080041	20080042	20080043	20080044
Picto plate = ceiling mounted	20080050	20080036	20080035	20080037	20080051	20080052	20080053	20080054

Argos



665 / 1275 / 1575 mm

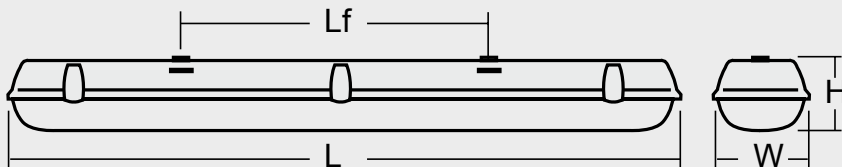
DIMENSIONS



Argos
L = 665 mm

Argos
L = 1275 mm

Argos
L = 1575 mm



Argos 1

L	W	H	Lf	Clips	Kg
665 mm	84 mm	98,5 mm	400 mm	6	1,5
1275 mm	84 mm	98,5 mm	800 mm	8	1,8
1575 mm	84 mm	98,5 mm	1100 mm	10	2,2

Argos 2

L	W	H	Lf	Clips	Kg
665 mm	134 mm	98,5 mm	400 mm	6	2,0
1275 mm	134 mm	98,5 mm	800 mm	8	2,9
1575 mm	134 mm	98,5 mm	1100 mm	10	3,8



Polycarbonate clip (optional)



Stainless steel clip



IP65 Wieland connector (optional)



Stainless steel suspension bracket (optional)

SPECIFICATIONS



Color	Grey / Frosted-Clear
Input voltage	220-240V - 50/60 Hz
Color Rendering Index (CRI)	80
Material Base	Glass Reinforced Polyester, compression moulded (GRP)
Material Diffuser	Polycarbonate (frosted or clear)
Environment	Indoor / Outdoor
Protection against water	IP65 /IP66
Protection against shock	IK08
Powerfactor (Pf)	> 0,9
Driver options	No Dim / 1-10V dim / DALI dim
Sensor options	Integrated Microwave Sensor 2 step ON-OFF or 3 step HIGH-LOW-OFF
Emergency options	yes on selected models, 1hour
Operating temperature	-20°C / + 40°C
Safety norms	EN61347-1 / EN61347-2-13
EMC norms	EN55015 / EN61547
Quantity per carton	1 pcs
Expected Lifetime at 25°C (L70, B10)	50.000 hrs
Warranty	5 years
Safety Class	I
Energy Class	A+

This luminaire contains built-in LED lamps.

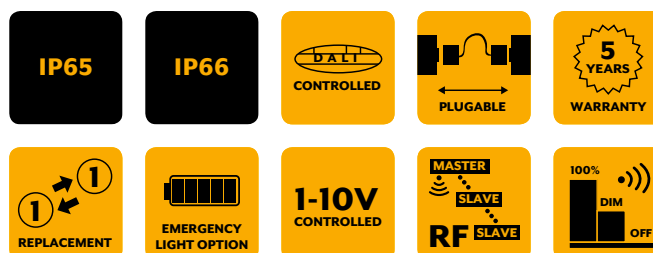
The lamps cannot be changed in the luminaire.

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Emergency light option see page 186

Also available on request:

- LED in 3000K
- LED in 5000K
- 1-10V dimmable driver
- RF Master (with sensor) - RF Slave



ITEM SPECIFICATIONS

Argis 1 - Description	Item Code	Type	Input	W	Lm/W	CRI	Pf
Argos 1 Surface Mount L= 665mm 2130lm 4000K No Dim	20071820	Incl. PSU	220-240V	16	133	80	0.95
Argos 1 Surface Mount L= 665mm 2130lm 4000K DALI	20071821	Incl. PSU	220-240V	16	133	80	0.95
Argos 1 Surface Mount L= 1275mm 2490lm 4000K No Dim	20071822	Incl. PSU	220-240V	19	131	80	0.95
Argos 1 Surface Mount L= 1275mm 4490lm 4000K No Dim	20071823	Incl. PSU	220-240V	32	140	80	0.95
Argos 1 Surface Mount L= 1275mm 2490lm 4000K DALI	20071824	Incl. PSU	220-240V	19	131	80	0.95
Argos 1 Surface Mount L= 1275mm 4490lm 4000K DALI	20071825	Incl. PSU	220-240V	32	140	80	0.95
Argos 1 Surface Mount L= 1575mm 3120lm 4000K No Dim	20071826	Incl. PSU	220-240V	23	136	80	0.95
Argos 1 Surface Mount L= 1575mm 5610lm 4000K No Dim	20071827	Incl. PSU	220-240V	41	137	80	0.95
Argos 1 Surface Mount L= 1575mm 3120lm 4000K DALI	20071828	Incl. PSU	220-240V	23	136	80	0.95
Argos 1 Surface Mount L= 1575mm 5610lm 4000K DALI	20071829	Incl. PSU	220-240V	41	137	80	0.95

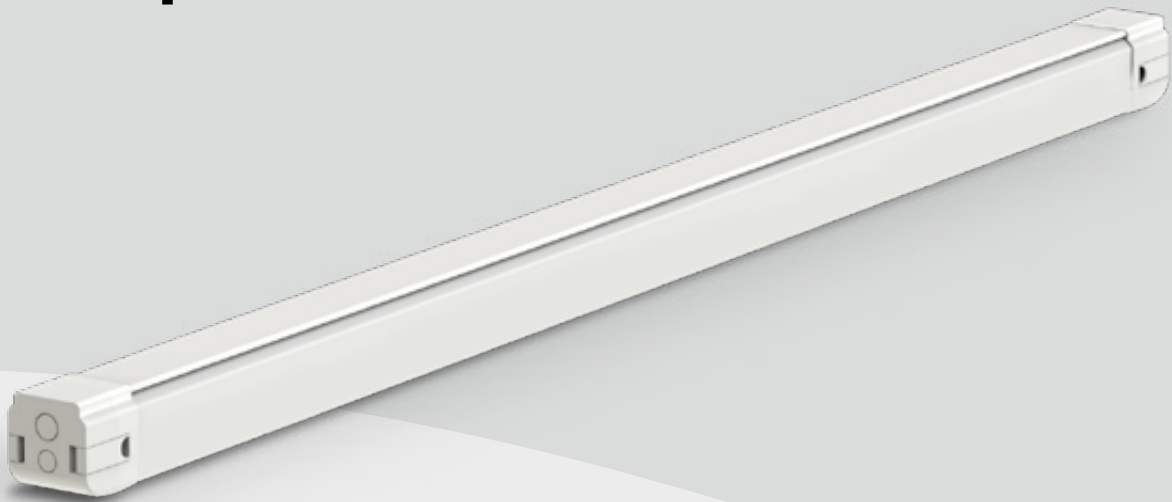
Argis 2 - Description	Item Code	Type	Input	W	Lm/W	CRI	Pf
Argos 2 Surface Mount L= 665mm 2210lm 4000K No Dim	20071750	Incl. PSU	220-240V	17	130	80	0.95
Argos 2 Surface Mount L= 665mm 3100lm 4000K No Dim	20071751	Incl. PSU	220-240V	23	135	80	0.95
Argos 2 Surface Mount L= 665mm 2210lm 4000K DALI	20071830	Incl. PSU	220-240V	17	130	80	0.95
Argos 2 Surface Mount L= 665mm 3100lm 4000K DALI	20071831	Incl. PSU	220-240V	23	135	80	0.95
Argos 2 Surface Mount L= 1275mm 4420lm 4000K No Dim	20071753	Incl. PSU	220-240V	30	147	80	0.95
Argos 2 Surface Mount L= 1275mm 6210lm 4000K No Dim	20071754	Incl. PSU	220-240V	45	138	80	0.95
Argos 2 Surface Mount L= 1275mm 4420lm 4000K DALI	20071756	Incl. PSU	220-240V	30	147	80	0.95
Argos 2 Surface Mount L= 1275mm 6210lm 4000K DALI	20071757	Incl. PSU	220-240V	45	138	80	0.95
Argos 2 Surface Mount L= 1575mm 5530lm 4000K No Dim	20071759	Incl. PSU	220-240V	37	149	80	0.95
Argos 2 Surface Mount L= 1575mm 7760lm 4000K No Dim	20071760	Incl. PSU	220-240V	56	139	80	0.95
Argos 2 Surface Mount L= 1575mm 9030lm 4000K No Dim	20071832	Incl. PSU	220-240V	66	137	80	0.95
Argos 2 Surface Mount L= 1575mm 5530lm 4000K DALI	20071762	Incl. PSU	220-240V	37	149	80	0.95
Argos 2 Surface Mount L= 1575mm 7760lm 4000K DALI	20071763	Incl. PSU	220-240V	56	139	80	0.95
Argos 2 Surface Mount L= 1575mm 9030lm 4000K DALI	20071833	Incl. PSU	220-240V	66	137	80	0.95

Total power consumption of LED's and driver.
Luminous flux of fitting @ 25°C for 4000K and 5000K
(correction factor 0.95 for 3000K)

OPTIONAL ITEMS

Description	Item code
Intergrated Microwave Motion Sensor 2 step ON-OFF	20071801
Intergrated Microwave Motion Sensor 3 step HIGH-LOW-OFF	20071802
Trough Wiring 1 fase 3x2.5mm² Incl. Push-Fit conn.	20071803
Trough Wiring 3 fase 5x2.5mm² Incl. Push-Fit conn.	20071804
Emergency Battery kit 1hr	20071805
Stainless Steel Suspension Bracket	20071806
Polycarbonate Clip (instead of default Stainless Steel)	20071807
IP65 Wieland connector	20071808

Scorpio



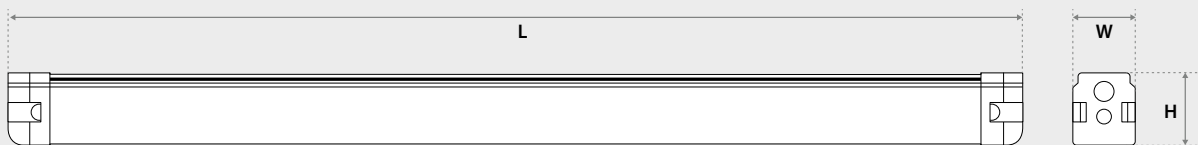
1266 / 1553 mm



SCORPIO - SURFACE MOUNTED

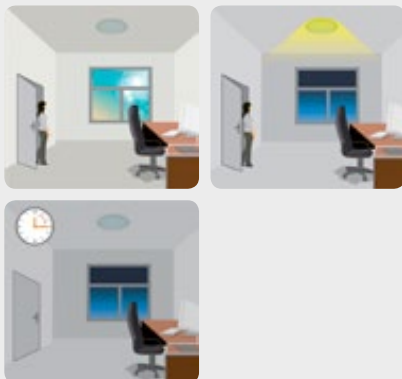
DIMENSIONS

L	W	H
1266 mm	72 mm	76 mm
1553 mm	72 mm	76 mm

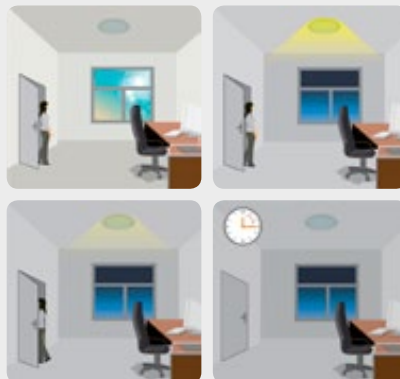


MICROWAVE SENSOR

on - off



high - low - off



SPECIFICATIONS

Color	White RAL 9003
Input voltage	200-240V - 50/60 Hz
Color Rendering Index (CRI)	> 80
Material Base	Alumium
Material Diffuser - Lenses	PMMA or Polycarbonate
Enviornment	Indoor
Protection against water	IP65
UGR	< 16 (except 120° beam angle)
lm/W	130 Lm/W
Powerfactor (Pf)	> 0,9
Driver options	1-10V dim / DALI dim
Sensor module options	Integrated Microwave Sensor 2 step ON-OFF or 3 step HIGH-LOW-OFF
Emergency module options	yes on selected models, 1hour
Operating temperature	-20°C / + 40°C
Safety norms	EN60598-1 / EN60598-2 / EN61347-1 / EN61347-2-13 / EN62471 / EN62493
EMC norms	EN55015 / EN61547
Expected lifetime at 30°C (L80/B10)	50.000 hrs
Warranty	5 years
Energy Class	A

This luminaire contains built-in LED lamps.

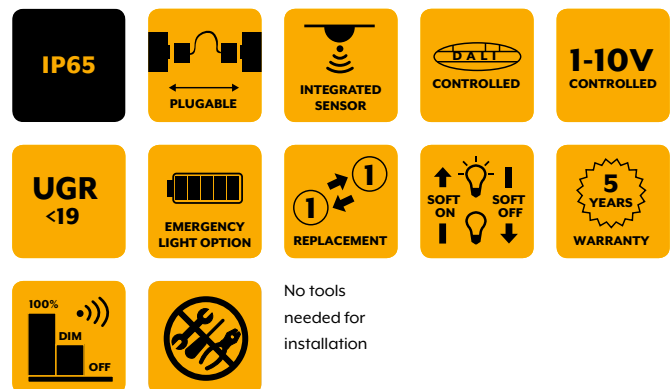
The lamps cannot be changed in the luminaire.

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Emergency light option see page 186

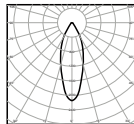
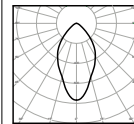
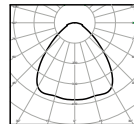
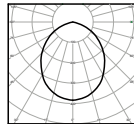
Also available on request:

- LED in 3000K
- LED in 5000K
- LED in 6000K
- 25° D beam lens
- 25° L-R beam lens

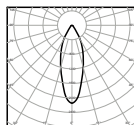
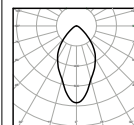
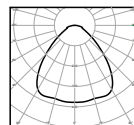
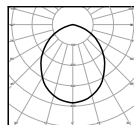


No tools needed for installation

PRODUCT SPECIFICATION

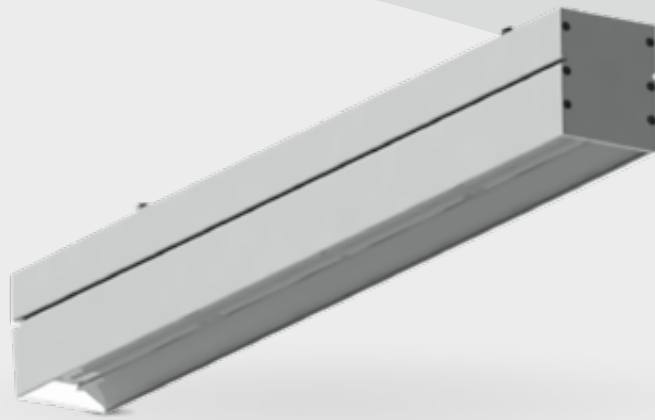
Description Scorpio 1266mm	Item code	Item code	Item code	Item code
Scorpio IP65 LED Fixture 1266mm 4000K Non-dim max. 40W 4800Lm**	400200101	400200102	400200103	400200104
Scorpio IP65 LED Fixture 1266mm 4000K 1-10V dim max. 40W 4800Lm**	400200105	400200106	400200107	400200108
Scorpio IP65 LED Fixture 1266mm 4000K DALI dim max. 40W 4800Lm**	400200109	400200110	400200111	400200112
**Max.40W. SLM to 40W/38W/35W/32W/30W				
	30° beam	60° beam	90° beam	120° beam

	Item code
Scorpio emergency 1h option to fixture	On request
Scorpio motion sensor for 1266mm	400201101
Titan mounting clip ceiling	400103044
Titan mounting clip pendel steel wire 2m	400103045
Titan mounting clip pendel steel chain 2m	400103046

Description Scorpio 1553mm	Item code	Item code	Item code	Item code
Scorpio IP65 LED Fixture 1553mm 4000K Non-dim max. 65W 7800Lm**	400200121	400200122	400200123	400200124
Scorpio IP65 LED Fixture 1553mm 4000K 1-10V dim max. 65W 7800Lm**	400200125	400200126	400200127	400200128
Scorpio IP65 LED Fixture 1553mm 4000K DALI dim max. 65W 7800Lm**	400200129	400200130	400200131	400200132
**Max.65W. SLM to 62W/58W/54W/50W/46W/42W				
	30° beam	60° beam	90° beam	120° beam

	Item code
Scorpio emergency 1h option to fixture	On request
Scorpio motion sensor for 1553mm	400201101
Titan mounting clip ceiling	400103044
Titan mounting clip pendel steel wire 2m	400103045
Titan mounting clip pendel steel chain 2m	400103046

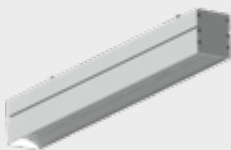
Eva Moduflex (Line system or single fixture)



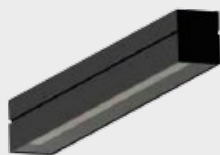
665 / 1275 / 1575 mm

EVA MODUFLEX - SURFACE MOUNTED

COLOURS



Natural Anodised



Black Anodised



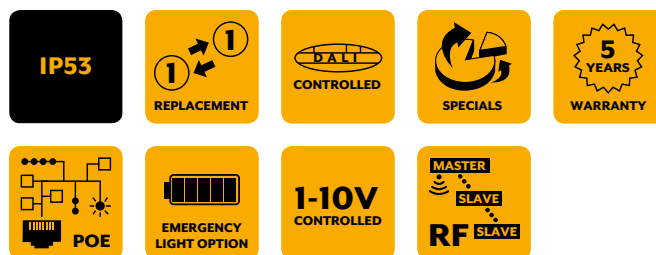
SPECIFICATIONS

Color	Natural Anodised / Black Anodised
Size	H: 80mm x B: 70mm, diferent length or line system
Input voltage	100-264V ~ 50/60 Hz
Color Rendering Index (CRI)	> 84
UGR	<19 Microprisma afscherming
Material	Aluminum
Enviornment	Indoor / Outdoor
Protection against water	IP53
Powerfactor (Pf)	> 0.94
THD	< 8%
ATS (auto temperature system)	Yes
Driver options	non-dim / 1-10V dim / DALI dim LED ModuFlex
Emergency options	yes on selected models, 1hour / 3 hour
Safety norms	EN61347-1 / EN61347-2-13
EMC norms	EN55015 / EN61547
Expected lifetime at 25°C (L80)	100.000 hrs

Emergency light option see page 186

Optional:

- 3000K / 4000K / 5000K for all LED modules



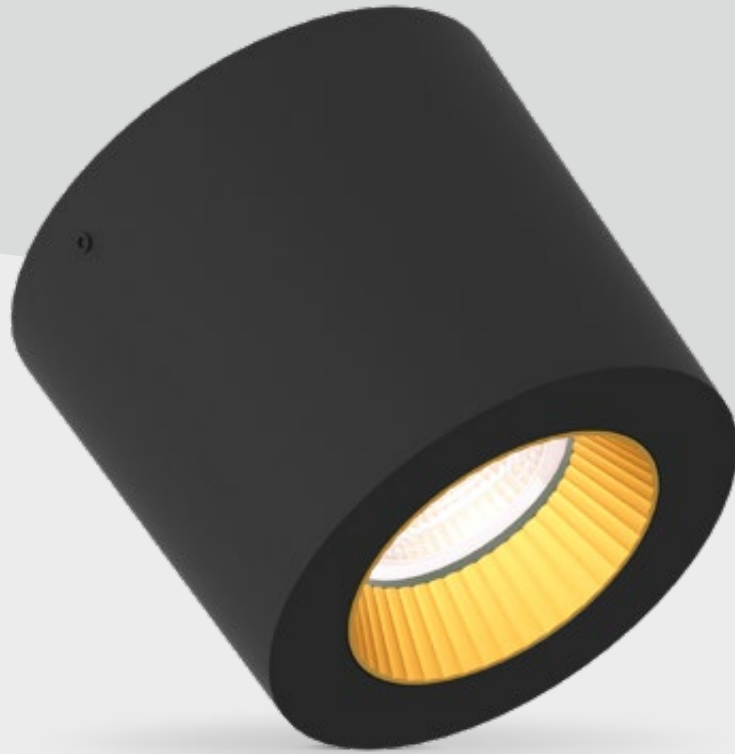
	Basic	Sport	Aqua
Fixture module length	880 mm	880 mm	1170 mm
Wattage per fixture	60W	60W	60W
Chlorine resistant	No	No	Yes
Shock resistant (ballproof)	No	Yes	No
Fixture optics	PMMA prisma	PC prisma	PMMA Prisma
Max. Ta °C	35°C	35°C	45°C
LED Lumen fixture	130 Lm/W (5000K)	130 Lm/W (5000K)	130 Lm/W (5000K)
Warranty	5 years	5 years	5 years

PRODUCT VARIATIONS

Product variations	Natural Anodised - Item code	Black Anodised - Item code
Core Rail Module	400102001	400103101
Light module Office	400102022	400103122
Light module Industry	400102006	400103106
Light module Sport	400102023	400103123
Light module Aqua HE	400102024	400103124
Cover Module	400102007	400103107

Tygo 100

NEW



↔
ø 103 mm

TYGO 100 - SURFACE MOUNTED

COLOURS



Matt black
RAL 9005



Matt white
RAL 9016



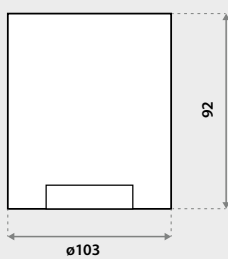
Gold

Silver

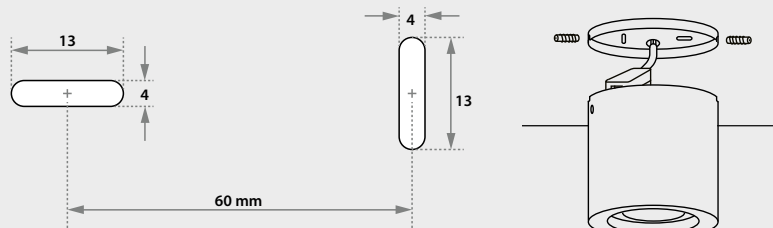
Copper

Black

DIMENSIONS



FIXATION DIMENSIONS



SPECIFICATIONS

Colour(s)	Housing / Reflector ring
	Matt white RAL9016 / Gold Matt white RAL9016 / Silver Matt white RAL9016 / Copper Matt white RAL9016 / Black Matt black RAL9005 / Gold Matt black RAL9005 / Silver Matt black RAL9005 / Copper Matt black RAL9005 / Black
Beam angle (FWHM)	24° / 60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



SEKUL SEMICONDUCTOR

ITEM SPECIFICATIONS

Description	Item code							
	White/Gold	White/Silver	White/Copper	White/Black	Black/Gold	Black/Silver	Black/Copper	Black/Black
Tygo 100 HV-IC 24° 700 Lm 2700K Triac dim	100610951	100610955	100610947	100610943	100610935	100610939	100610931	100610927
Tygo 100 HV-IC 24° 750 Lm 3000 Triac dim	100610952	100610956	100610948	100610944	100610936	100610940	100610932	100610928
Tygo 100 HV-IC 60° 700 Lm 2700K Triac dim	100610953	100610957	100610949	100610945	100610937	100610941	100610933	100610929
Tygo 100 HV-IC 60° 750 Lm 3000K Triac dim	100610954	100610958	100610950	100610946	100610938	100610942	100610934	100610930


Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Tygo 100 HV-IC 24° 700 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	9,0	78	93	17,3	0,98	II
Tygo 100 HV-IC 24° 750 Lm 3000 Triac dim	Incl. Conn.Box	220-240V	9,0	83	93	17,8	0,98	II
Tygo 100 HV-IC 60° 700 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	9,0	78	93	18,2	0,98	II
Tygo 100 HV-IC 60° 750 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	9,0	83	93	18,8	0,98	II

All values are measured at 230V (+/- 7%).

SURFACE MOUNTED

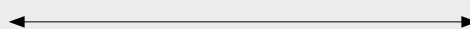
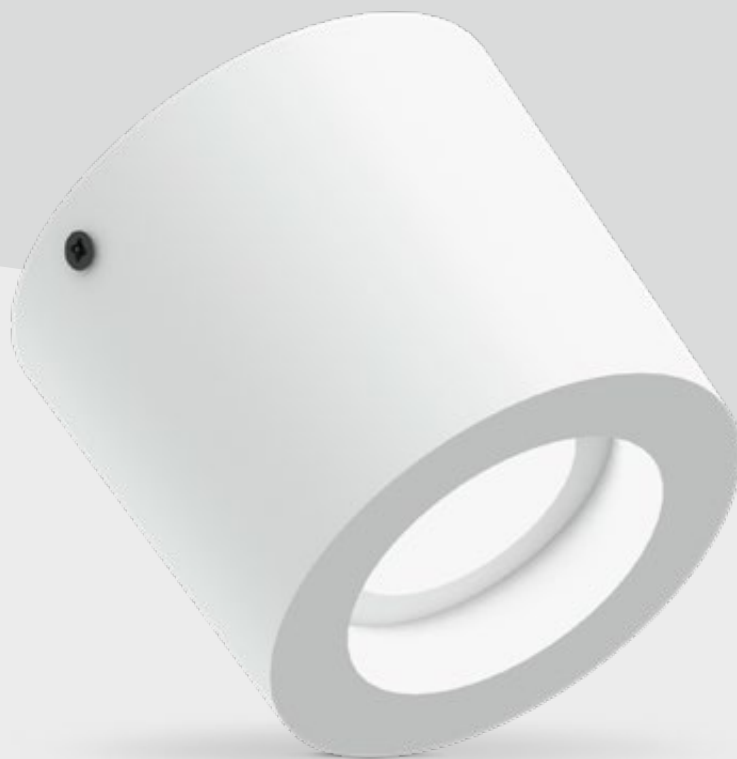
TYGO 100





Surface mounted
-
Tygo 100

Radius 100



ø 103 mm

RADIUS 100 - SURFACE MOUNTED

COLOURS



Matt white
RAL 9016

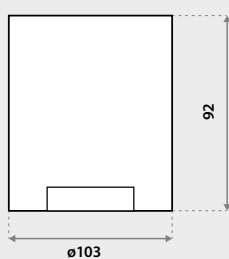


Matt grey
RAL 9006

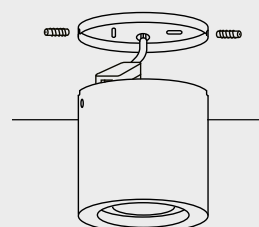
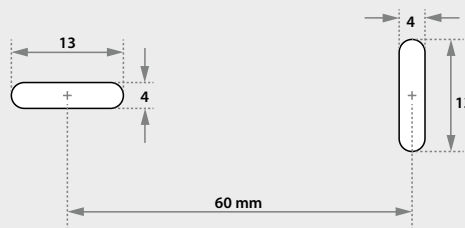


Matt black
RAL 9005

DIMENSIONS



FIXATION DIMENSIONS



SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



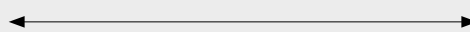
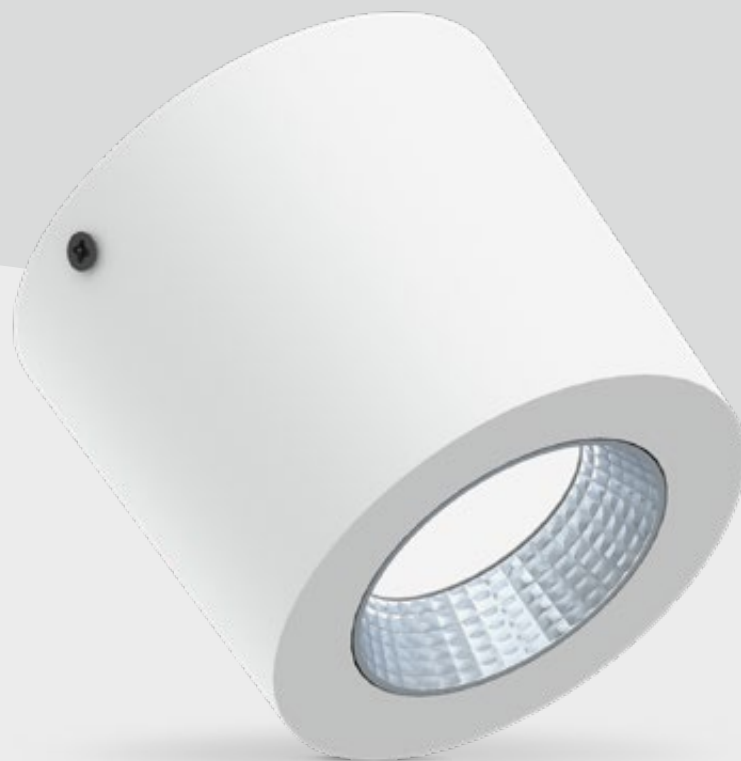
ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Radius 100 HV 400 Lm 3000K Triac dim*	100603090	100604131	100609785
Radius 100 HV-IC 600 Lm 2700K Triac dim	100604136	100604133	100609786
Radius 100 HV-IC 600 Lm 3000K Triac dim	100604137	100604134	100609787
Radius 100 HV-IC 600 Lm 4000K Triac dim	100604138	100604135	100609788
Radius 100 HV-IC 900 Lm 2700K Triac dim	100605518	100605515	100609782
Radius 100 HV-IC 900 Lm 3000K Triac dim	100605519	100605516	100609783
Radius 100 HV-IC 900 Lm 4000K Triac dim	100605520	100605517	100609784
Radius 100 HV-WD 900Lm 3000-2200K	100607552	100607551	100609781

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Radius 100 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23.1	0.91	II
Radius 100 HV-IC 600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23.3	0.98	II
Radius 100 HV-IC 600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23.3	0.98	II
Radius 100 HV-IC 600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23.3	0.98	II
Radius 100 HV-IC 900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23.5	0.99	II
Radius 100 HV-IC 900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23.5	0.99	II
Radius 100 HV-IC 900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23.5	0.99	II
Radius 100 HV-WD 900Lm 3000-2200K	Incl. Conn.Box	220-240V	11,2	80	88	23.5	0.99	II

All values are measured at 230V (+/- 7%). This luminaire contains built-in LED lamps. 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).

Tucano 100



ø 103 mm

TUCANO 100 - SURFACE MOUNTED

COLOURS



Matt white
RAL 9016

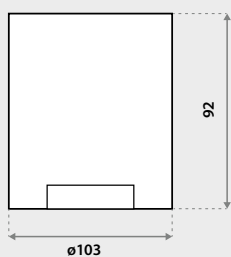


Matt grey
RAL 9006

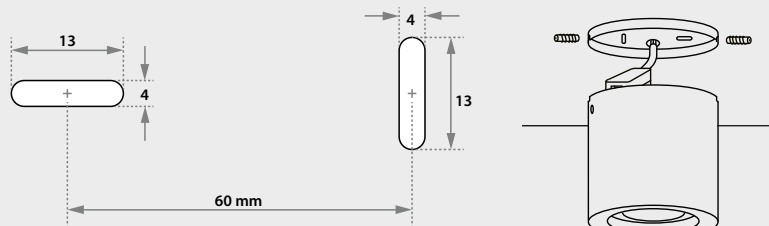


Matt black
RAL 9005

DIMENSIONS



FIXATION DIMENSIONS



SURFACE MOUNTED

SPECIFICATIONS

Colour white	Matt white RAL 9016
Colour grey	Matt grey RAL 9006
Colour black	Matt black RAL 9005
Beam angle (FWHM)	60°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



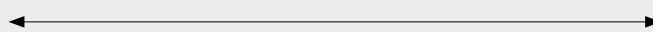
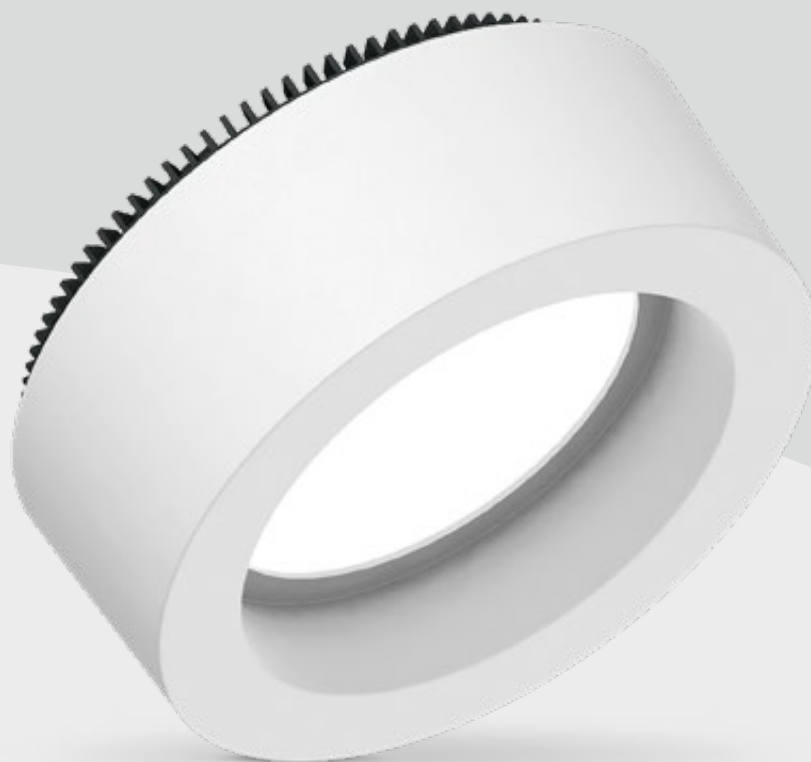
ITEM SPECIFICATIONS

Description	Item code		
	Matt white	Matt grey	Matt black
Tucano 100 HV 400 Lm 3000K Triac dim*	100603103	100604140	100609793
Tucano 100 HV-IC-600 Lm 2700K Triac dim	100604145	100604142	100609796
Tucano 100 HV-IC-600 Lm 3000K Triac dim	100604146	100604143	100609797
Tucano 100 HV-IC-600 Lm 4000K Triac dim	100604147	100604144	100609798
Tucano 100 HV-IC-900 Lm 2700K Triac dim	100605527	100605524	100609790
Tucano 100 HV-IC-900 Lm 3000K Triac dim	100605528	100605525	100609791
Tucano 100 HV-IC-900 Lm 4000K Triac dim	100605529	100605526	100609792
Tucano 100 HV-WD 900Lm 3000-2200K	100607554	100607553	100609789

Description	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Tucano 100 HV 400 Lm 3000K Triac dim*	Incl. Conn.Box	220-240V	9,0	45	83	23.1	0.91	II
Tucano 100 HV-IC-600 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	8,2	73	83	23.3	0.98	II
Tucano 100 HV-IC-600 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	8,0	75	83	23.3	0.98	II
Tucano 100 HV-IC-600 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	7,5	80	83	23.3	0.98	II
Tucano 100 HV-IC-900 Lm 2700K Triac dim	Incl. Conn.Box	220-240V	12,9	70	83	23.5	0.99	II
Tucano 100 HV-IC-900 Lm 3000K Triac dim	Incl. Conn.Box	220-240V	12,6	71	83	23.5	0.99	II
Tucano 100 HV-IC-900 Lm 4000K Triac dim	Incl. Conn.Box	220-240V	11,8	76	83	23.5	0.99	II
Tucano 100 HV-WD 900Lm 3000-2200K	Incl. Conn.Box	220-240V	11,2	80	88	23.5	0.99	II

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist. *Less suitable for work or living spaces (see page 36).

Radius 235



ø 235 mm

RADIUS 235 - SURFACE MOUNTED

COLOURS



Matt white
RAL 9016



Matt white
RAL 9016
+ Integrated Emergency Pack

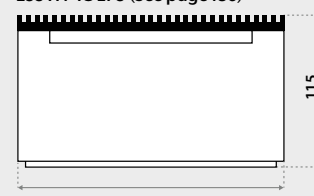
DIMENSIONS

235 HV-IC



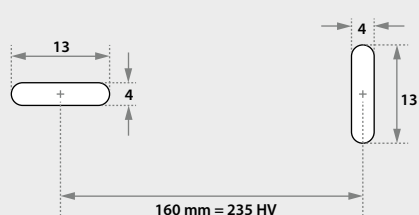
ø235

235 HV-IC EP3 (See page 186)

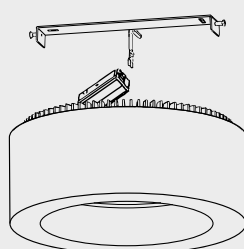


ø235

FIXATION DIMENSIONS



160 mm = 235 HV



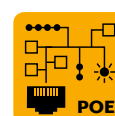
SPECIFICATIONS

Colour white	Matt white RAL 9016
Beam angle (FWHM)	80°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years (Emergency pack 4 years)
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Emergency light option see page 186

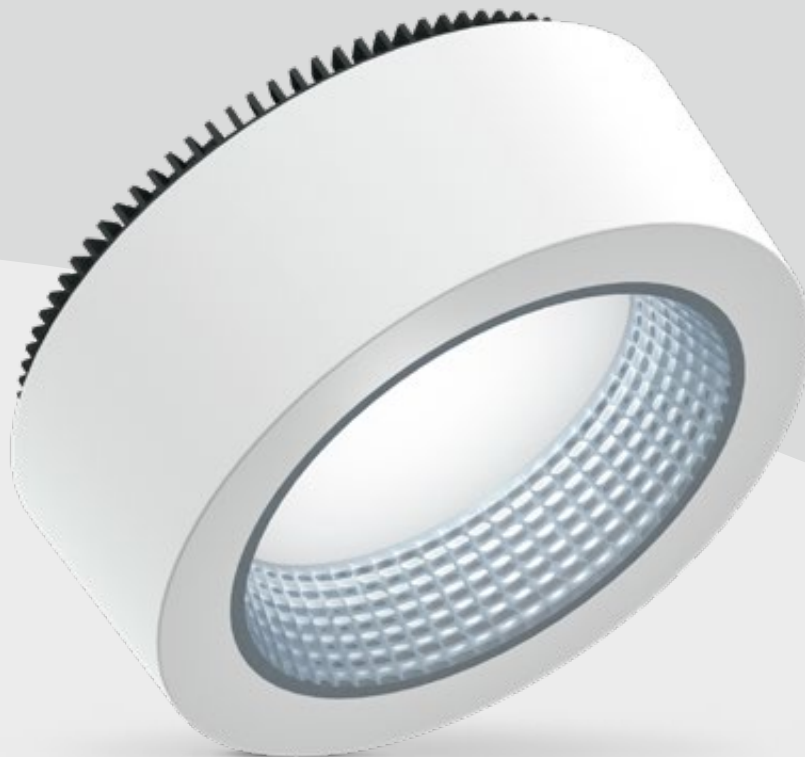


Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Radius 235 HV-IC 1250 Lm 2700K	100604148	Incl. Conn.Box	220-240V	12,4	101	93	24.4	0.98	II
Radius 235 HV-IC 1250 Lm 3000K	100603089	Incl. Conn.Box	220-240V	11,5	109	83	24.4	0.98	II
Radius 235 HV-IC 1250 Lm 4000K	100604150	Incl. Conn.Box	220-240V	10,6	118	83	24.4	0.98	II
Radius 235 HV-IC 2000 Lm 2700K	100604151	Incl. Conn.Box	220-240V	20,8	96	93	26.1	0.98	II
Radius 235 HV-IC 2000 Lm 3000K	100604152	Incl. Conn.Box	220-240V	19,2	104	83	26.1	0.98	II
Radius 235 HV-IC 2000 Lm 4000K	100604153	Incl. Conn.Box	220-240V	17,7	113	83	26.1	0.98	II
Radius 235 HV-IC 1250 Lm 2700K EP3 4-P	100605541	Incl. Em.Pack	220-240V	12,4	101	93	24.4	0.98	I
Radius 235 HV-IC 1250 Lm 3000K EP3 4-P	100605545	Incl. Em.Pack	220-240V	11,5	109	83	24.4	0.98	I
Radius 235 HV-IC 1250 Lm 4000K EP3 4-P	100605549	Incl. Em.Pack	220-240V	10,6	118	83	24.4	0.98	I
Radius 235 HV-IC 2000 Lm 2700K EP3 4-P	100605553	Incl. Em.Pack	220-240V	20,8	96	93	26.1	0.98	I
Radius 235 HV-IC 2000 Lm 3000K EP3 4-P	100605557	Incl. Em.Pack	220-240V	19,2	104	83	26.1	0.98	I
Radius 235 HV-IC 2000 Lm 4000K EP3 4-P	100605561	Incl. Em.Pack	220-240V	17,7	113	83	26.1	0.98	I

All values are measured at 230V (+/- 7%). See page 190-191 for the dimmerlist.

Tucano 235

TUCANO 235 - SURFACE MOUNTED



ø 235 mm

COLOURS



Matt white
RAL 9016



Matt white
RAL 9016
+ Integrated Emergency Pack

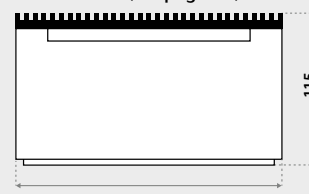
DIMENSIONS

235 HV-IC



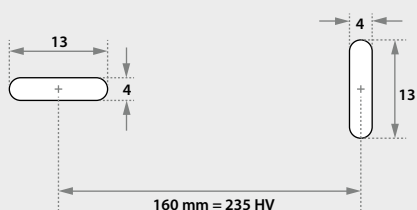
ø235

235 HV-IC EP3 (See page 186)

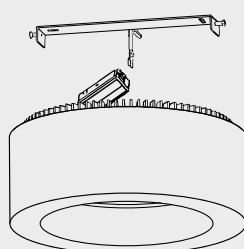


ø235

FIXATION DIMENSIONS



160 mm = 235 HV



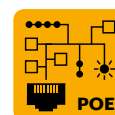
SPECIFICATIONS

Colour white	Matt white RAL 9016
Beam angle (FWHM)	80°
Fixture material	Die cast aluminium
Environment	Indoor
IP rate	IP20
IK rate	IK03
Operating temperature (Ta)	-20°C / +45°C
Safety marks	EN60598 / EN62031 / EN62471
EMC compliance	EN55015
Colour consistency (SDCM)	MacAdam step 3
Warranty	7 years (Emergency pack 4 years)
Energy Class	A

This luminaire contains built-in LED lamps.

The lamps cannot be changed in the luminaire.

EU 874/2012



Emergency light option see page 186



ITEM SPECIFICATIONS

Description	Item code	Type	Input	W	Lm/W	CRI (typ.)	UGR	Pf	Safety class
Tucano 235 HV-IC 1250 Lm 2700K	100604420	Incl. Conn.Box	220-240V	12,4	101	93	21.7	0.98	II
Tucano 235 HV-IC 1250 Lm 3000K	100603091	Incl. Conn.Box	220-240V	11,5	109	83	21.7	0.98	II
Tucano 235 HV-IC 1250 Lm 4000K	100604422	Incl. Conn.Box	220-240V	10,6	118	83	21.7	0.98	II
Tucano 235 HV-IC 2000 Lm 2700K	100604423	Incl. Conn.Box	220-240V	20,8	96	93	23.4	0.98	II
Tucano 235 HV-IC 2000 Lm 3000K	100604424	Incl. Conn.Box	220-240V	19,2	104	83	23.4	0.98	II
Tucano 235 HV-IC 2000 Lm 4000K	100603127	Incl. Conn.Box	220-240V	17,7	113	83	23.4	0.98	II
Tucano 235 HV-IC 1250 Lm 2700K EP3 4-P	100605947	Incl. Em.Pack	220-240V	12,4	101	93	21.7	0.98	I
Tucano 235 HV-IC 1250 Lm 3000K EP3 4-P	100605951	Incl. Em.Pack	220-240V	11,5	109	83	21.7	0.98	I
Tucano 235 HV-IC 1250 Lm 4000K EP3 4-P	100605955	Incl. Em.Pack	220-240V	10,6	118	83	21.7	0.98	I
Tucano 235 HV-IC 2000 Lm 2700K EP3 4-P	100605971	Incl. Em.Pack	220-240V	20,8	96	93	23.4	0.98	I
Tucano 235 HV-IC 2000 Lm 3000K EP3 4-P	100605975	Incl. Em.Pack	220-240V	19,2	104	83	23.4	0.98	I
Tucano 235 HV-IC 2000 Lm 4000K EP3 4-P	100605979	Incl. Em.Pack	220-240V	17,7	113	83	23.4	0.98	I

All values are measured at 230V (+/- 7%). Ask our sales department for the dimmerlist.



TUCANO 235 - SURFACE MOUNTED

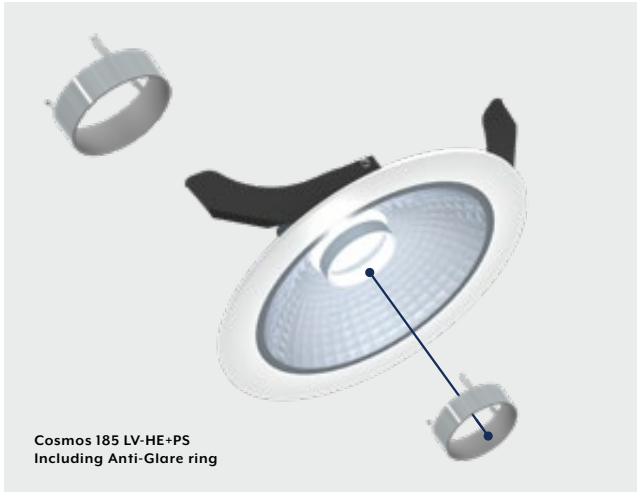


Surface mounted

-

Tucano 235

Downlights



ANTI-GLARE RING

The Anti-Glare ring eliminates direct blinding of the eyes. It can be easily mounted (without prior production). For use with Cosmos 185 only.

Item code	100603061
Colour	Chrome
Type of material	Polycarbonate

CORRECTION RING

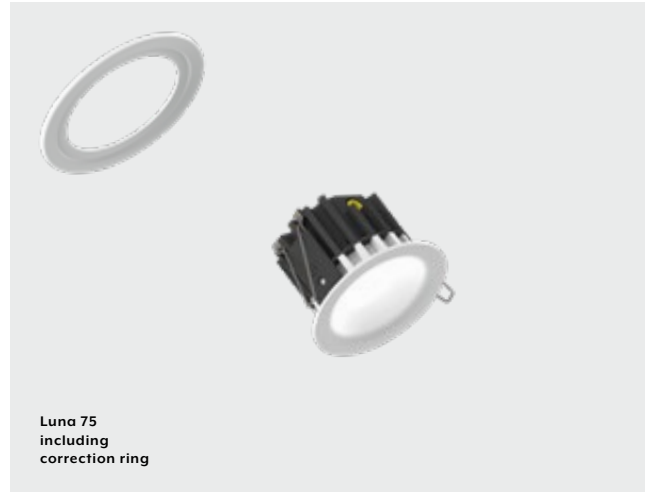
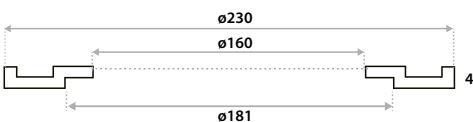
The LED luminaire fits flush in the correction ring, creating a natural and elegant look. The correction ring can also be placed inside the ceiling to prevent the springs from damaging the ceiling panel.



CORRECTION RING 150-230 MM

The correction ring is used in (retrofit) installations with existing cutouts measuring 150-210 mm. For use with Luna 120 and Luna DS-F 150.

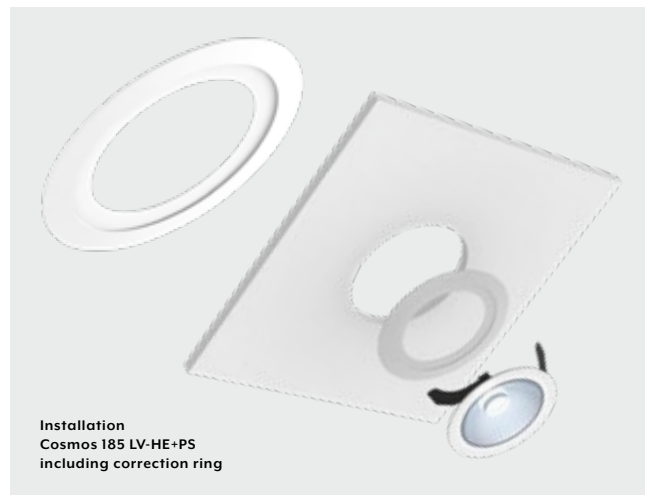
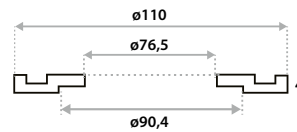
Item code	100603152
Colour	Matt White RAL 9016
Type of material	Steel



CORRECTION RING 75-110 MM

The correction ring is used in (retrofit) installations with existing cutouts measuring 75-100 mm. For use with Fino 75, Luna 75 and Cosmos 75.

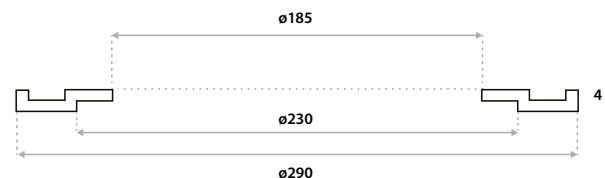
Item code	200600507
Colour	Matt White RAL 9016
Type of material	Steel



CORRECTION RING 185-290 MM

The correction ring is used in (retrofit) installations with existing cutouts measuring 215-250 mm. For use with Luna 185 and Cosmos 185.

Item code	100603063
Colour	Matt White RAL 9016
Type of material	Steel



Panels



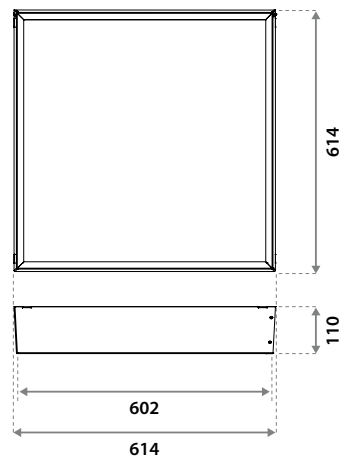
NEW



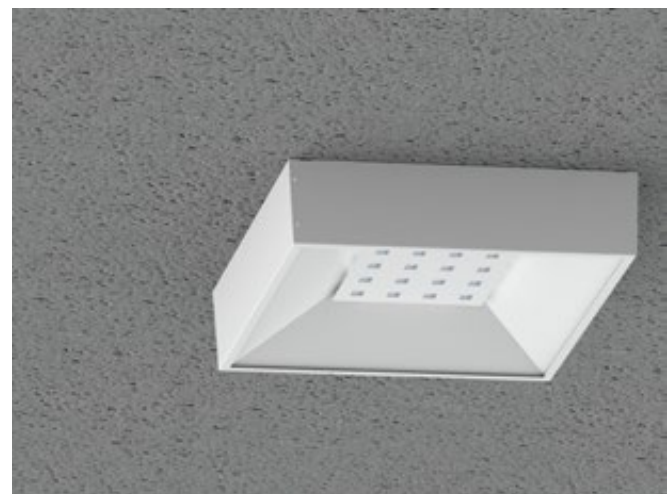
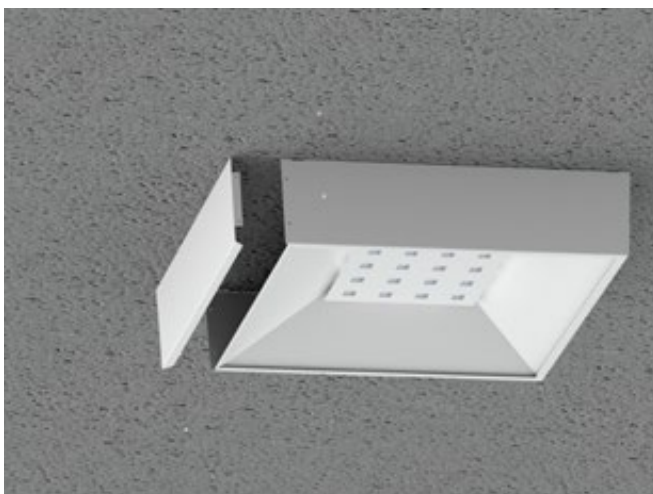
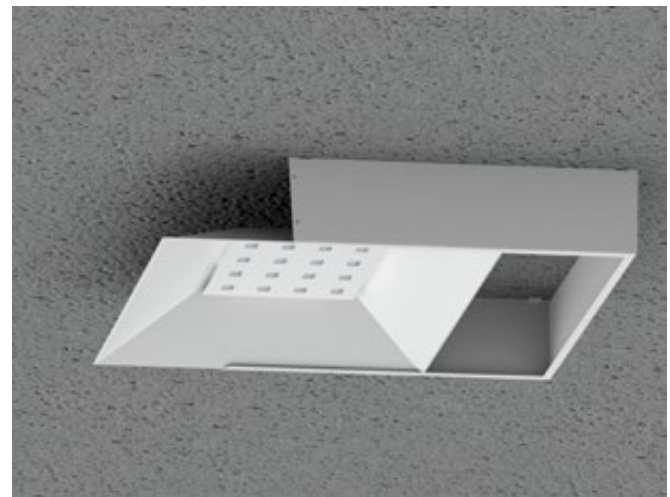
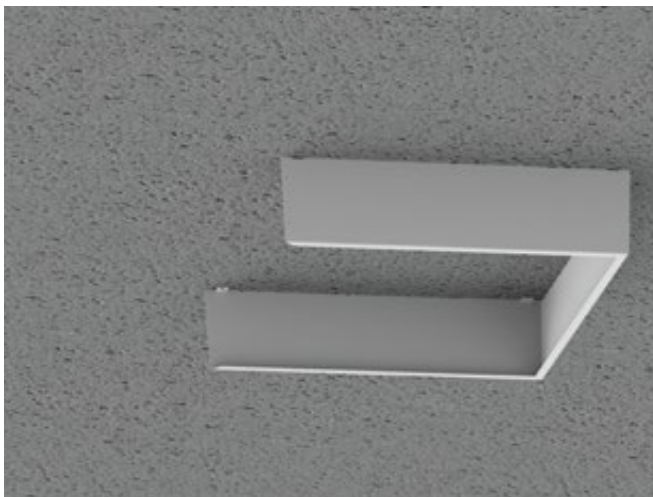
SM NEOS LEDPANEL FRAME

Surface mounting panel frame for 595x595 Neos LEDpanels.

Item code	100607527
Colour	Matt White RAL 9016
Type of material	Metal

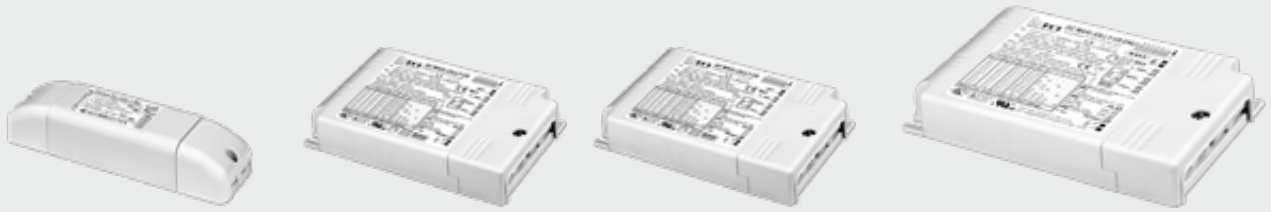


INSTALLATION



Dimmable central PSU

350 / 500 / 700 mA



1

05CG / 05GG / 05MG TRIAC
- Max. 3 downlights (47Vf)

1

05CJ / 05GJ / 05MJ DALI
- Max. 4 downlights (48Vf)

1

05CH / 05GH / 05MH 1-10V & Push
- Max. 4 downlights (53Vf)

1

05CM / 05GM / 05MM Dali / 1-10V & Push
- Max. 6 downlights (74Vf)

DIMMABLE CENTRAL POWER SUPPLIES

350mA - 05CG03SLMD00 / 05CJ03SLMD00 / 05CH03SLMD00 / 05CM03SLMD00

500mA - 05GG03SLME00 / 05GJ03SLME00 / 05GH03SLME00 / 05GM03SLME00

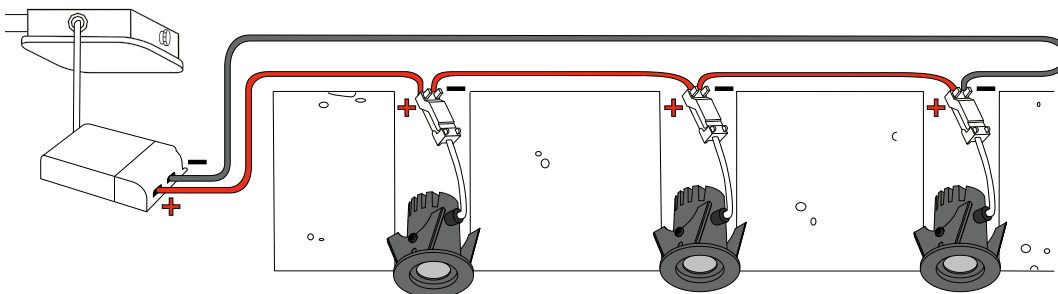
700mA - 05MG03SLMF00 / 05MJ03SLMF00 / 05MH03SLMF00 / 05MM03SLMF00

POWER SUPPLY UNITS CONSTANT CURRENT (mA)

Description	Item code	Watt	Current	Efficiency	Pf	Ripple	Input	Dimensions	Inrush current	B-16A Fuse
PSU 32W 350mA Triac	200600524	32W (47Vf)	350mA	85%	0.97	<3%	220-240V	166x46x34 mm	5A 50μS	50 pcs
PSU 32W 350mA Dali	200600525	32W (48Vf)	350mA	87%	0.98	<3%	220-240V	103x67x21 mm	5A 50μS	50 pcs
PSU 32W 350mA 1-10V & Push	200600526	32W (53Vf)	350mA	90%	0.95	<3%	220-240V	103x67x21 mm	5A 50μS	50 pcs
PSU 50W 350mA Dali / 1-10V & Push	200600527	50W (74Vf)	350mA	89%	0.95	<3%	220-240V	124x79x22 mm	20A 400μS	15 pcs
PSU 32W 500mA Triac	200600528	32W (47Vf)	500mA	85%	0.97	<3%	220-240V	166x46x34 mm	5A 50μS	50 pcs
PSU 32W 500mA Dali	200600529	32W (48Vf)	500mA	87%	0.98	<3%	220-240V	103x67x21 mm	5A 50μS	50 pcs
PSU 32W 500mA 1-10V & Push	200600530	32W (53Vf)	500mA	90%	0.95	<3%	220-240V	103x67x21 mm	5A 50μS	50 pcs
PSU 50W 500mA Dali / 1-10V & Push	200600531	50W (74Vf)	500mA	89%	0.95	<3%	220-240V	124x79x22 mm	20A 400μS	15 pcs
PSU 32W 700mA Triac	200600532	32W (47Vf)	700mA	85%	0.97	<3%	220-240V	166x46x34 mm	5A 50μS	50 pcs
PSU 32W 700mA Dali	200600533	32W (48Vf)	700mA	87%	0.98	<3%	220-240V	103x67x21 mm	5A 50μS	50 pcs
PSU 32W 700mA 1-10V & Push	200600534	32W (53Vf)	700mA	90%	0.95	<3%	220-240V	103x67x21 mm	5A 50μS	50 pcs
PSU 50W 700mA Dali / 1-10V & Push	200600535	50W (74Vf)	700mA	89%	0.95	<3%	220-240V	124x79x22 mm	20A 400μS	15 pcs

INSTALLATION DIMMABLE CENTRAL POWER SUPPLY

Downlight including Phoenix to connection box.



⚠ All spots should be connected in series!

Non dimmable central PSU



24VDC



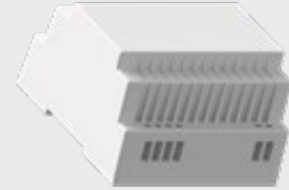
6

Central power supply
- 05BW03SLMC00



6

Central power supply
- 703805000002
- 703905000002



11

Central DIN rail power supply
- 704005000002
- 704105000002

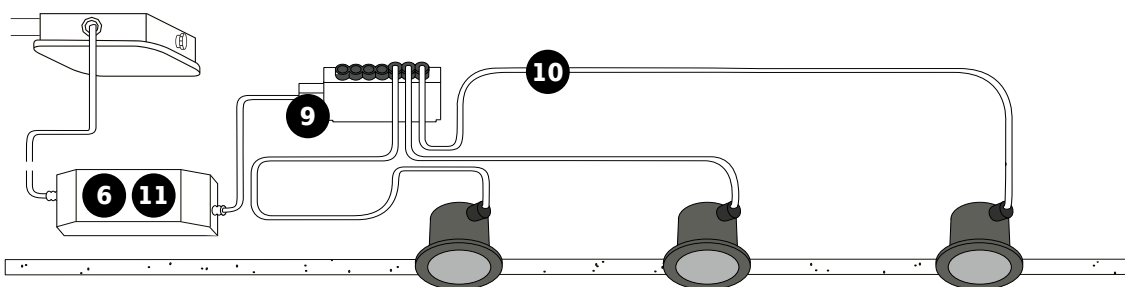
POWER SUPPLY UNITS CONSTANT VOLTAGE (Vdc)

	Description	Item code	Watt	Voltage	Efficiency	Pf	Ripple	Input	Dimensions	Inrush current	B-16A Fuse
6	PSU 05BW	200600536	20W	24Vdc	87%	0.93	<3%	220-240V	111x52x22 mm	5A 50µS	50 pcs
6	PSU 7038	200600537	70W	24Vdc	91%	0.97	<3%	220-240V	225x60x36 mm	15A 600µS	15 pcs
6	PSU 7039	200600538	150W	24Vdc	94%	0.98	<3%	220-240V	240x60x49 mm	35A 1000µS	8 pcs
11	PSU MW DR60	200600539	60W	24Vdc	84%	0.92	<3%	100-240V	93x78x56 mm	35A	
11	PSU MW DR100	200600540	100W	24Vdc	89%	0.92	<3%	100-240V	100x93x56 mm	45A	

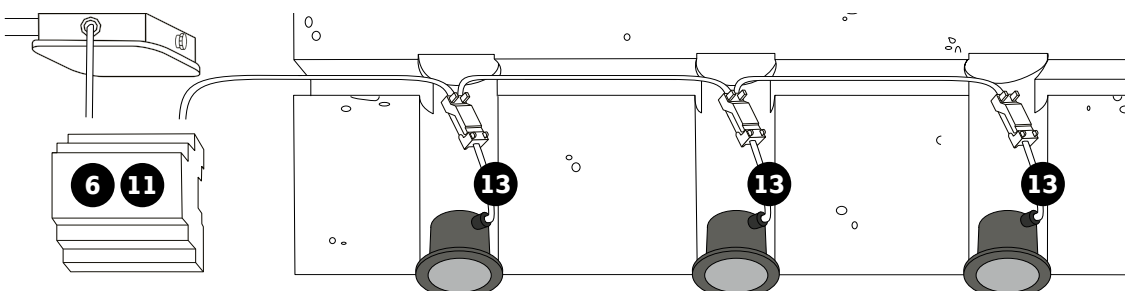
PLUG & PLAY CABLES

	Description	Item code	Voltage	Weight
9	LV cable 6 way distributor 1,0 m	200600541	24Vdc	60 gr
10	LV plug to outlet 2,0 m (extension cable)	200600542	24Vdc	40 gr
13	LV plug to connection box 0,2 m	200600543	24Vdc	32 gr

INSTALLATION NON DIMMABLE CENTRAL POWER SUPPLY



INSTALLATION NON DIMMABLE CENTRAL DIN RAIL POWER SUPPLY



⚠ All spots should be parallel connected!



Emergency LED System

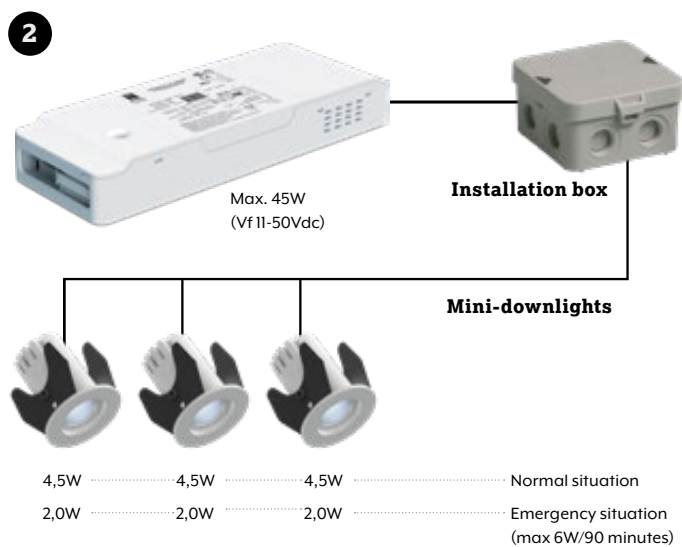
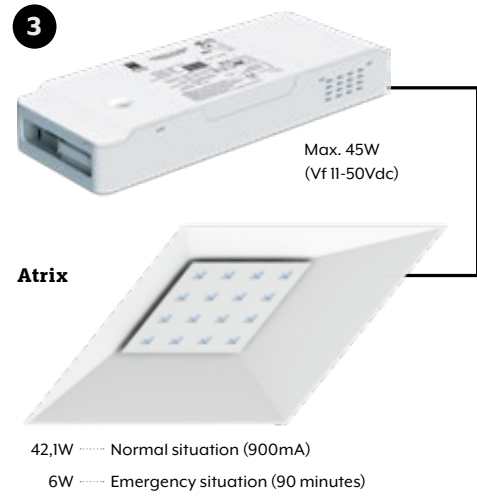
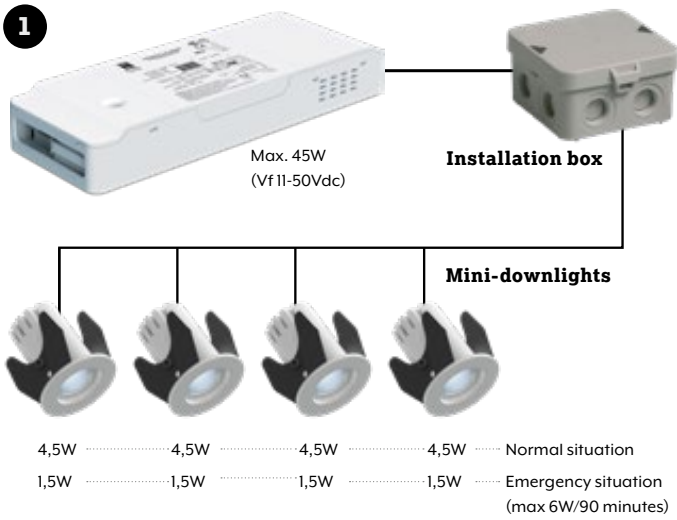
NEW



FEATURES

- All-in-one unit combines 0-10V dimmable LED driver, emergency LED driver, and replaceable backup battery
- Autotest
- Expected lifetime battery: 10 years

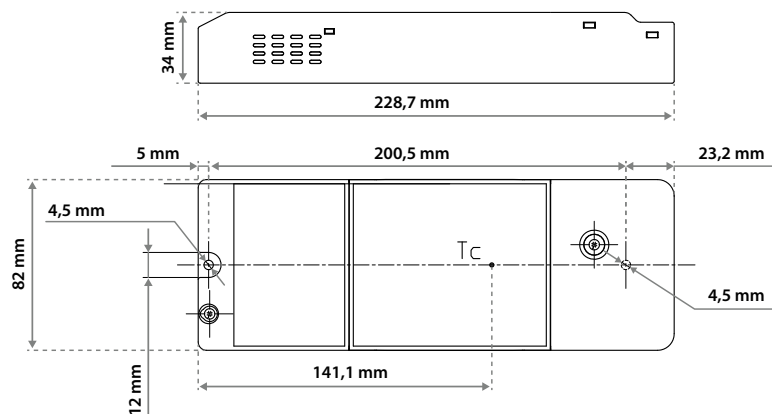
INSTALLATION EXAMPLES



SPECIFICATIONS

Item code	1-10V	200600544
	DALI (Q3 2018)	200600545
Input Voltage	220-240VAC, 50/60Hz	
Input Current	0.27A Max.	
Input Power	58W	
Power Factor	>0.9	
THD	<20%	
Standby Power	<0.5W	
Output Type	SELV	
Output Current	250-1400mA	
Output Voltage Range	11-50VDC	
Output Power	45W (1W to 6W @ Emergency)	
Output runtime	Minimum 90min at 6W, Minimum 180 Minutes at 3W (Factory set for 6W / 90min)	
RFI/EMI	EN55015	
Battery type	LiFePO4	
Recharge time	12 hours	
Warranty	7 years	

DIMENSIONS



AUTOTEST EXPLANATION

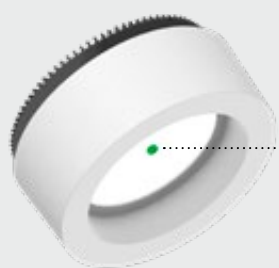
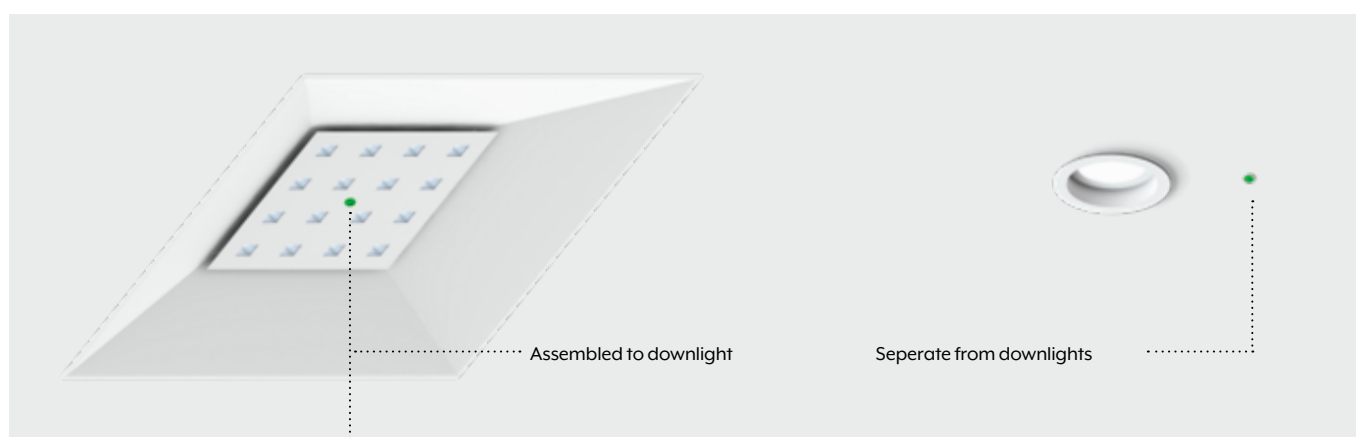
Every 30 days the unit will perform an automatic test to see if the battery is still ok. This test will take a couple of minutes. Every year the unit will perform an automatic test which will take 60 minutes.

Red colour:
Battery need to be replaced"

Green colour:
Battery is still ok



Emergency packs HV



Atrix 595x595
Atrix 620x620
Fino 185
Cosmos 185
Radius 235
Tucano 235

SPECIFICATIONS

LED	1 x 3W LED
Light Output (Emergency)	110 Lm
Discharge duration	3 hours
Life time of battery	4 years
Spec of battery	4,8V NiCD Battery
LED protection	Overcharge and discharge protection

EMERGENCY PACK 185 HV 3HRS

GST18 4-P male

Version	Assembled to downlight
Item code	100604024



EMERGENCY PACK 32-HV 3HR

GST18 4-P male

Version	Seperate from downlights
Item code	100607444



EMERGENCY PACK 32-HV 3HR

Specification to mains 1,5 mm²

Version	4-pole
Item code	100603144



Plug & play cables

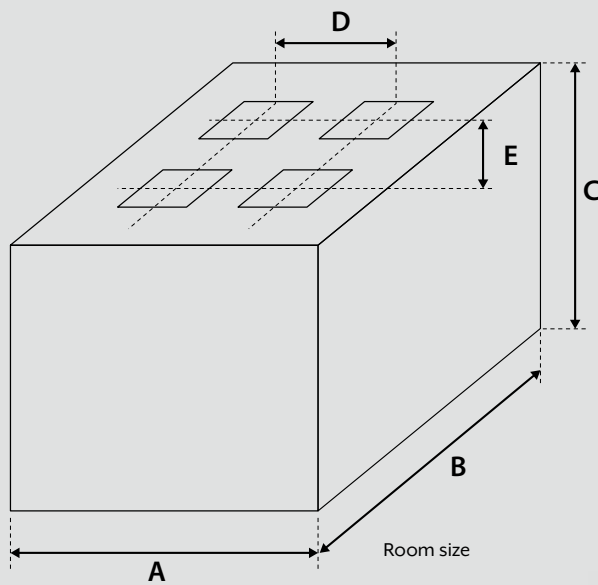
ACCESSORIES - PLUG & PLAY CABLES



PLUG & PLAY SOLUTIONS PREFAB:

	Description	Length	Item code	Length	Item code	Length	Item code
A	EURO PLUG (C7) incl. cable	0,3 m	x	2,0 m	200600547	3,0 m	x
B	GST18-3 MALE incl. cable	0,3 m	20050448	2,0 m	x	3,0 m	20050450
C	1-10V/DALI GST18-5 MALE incl. cable	0,3 m	200600510	2,0 m	x	3,0 m	20050460
D	1-10V/DALI BST14i MALE incl. cable	0,3 m	200600546	2,0 m	x	3,0 m	200600548

Application table



Atrix 595x595

Room size A x B	Ceiling height C	Lamp spacing D-E	Atrix							Neos LEDpanel					
			Amount of lamps	75°			85°			System power	Amount of lamps	Eav 75cm	Es/Eav 75cm	UGR	System power
				Eav 75cm	Es/Eav 75cm	UGR	Eav 75cm	Es/Eav 75cm	UGR						
3.6x5.4m 20 m ²	2.60m	1.8-2.4	2 x 4350 Lm				512	0,75	17	74,6	2 x 5950 Lm	588	0,55	20,1	82
			4 x 2500 Lm	505	0,69	14,2				78					
			4 x 3400 Lm				602	0,72	16,2	106,4					
	2.80m	1.8-2.4	2 x 5300 Lm				566	0,72	17,7	95	2 x 5950 Lm	539	0,59	20,1	82
			4 x 2500 Lm	481	0,70	14,2				78					
			4 x 3400 Lm	577	0,70		573	0,68	16,2	106,4					
	3.00m	1.8-2.4	2 x 5300 Lm				513	0,75	17,7	95	2 x 5950 Lm	497	0,63	20,1	82
			4 x 3400 Lm	624	0,70	15,3	546	0,66	16,2	106,4					
3.20m	1.8-2.4	2 x 5300 Lm	561	0,66	16,8				95	2 x 6850 Lm	529	0,66	20,6	97,6	
		2 x 5300 Lm	520	0,70	16,8				95	2 x 6850 Lm	492	0,69	20,6	97,6	
5.4x5.4m 26 m ²	2.60m	2.4-2.4	4 x 3750 Lm				507	0,80	16,5	117,2	4 x 4700 Lm	590	0,61	19,3	124,8
			6 x 2500 Lm	497	0,69	14,2				117	6 x 3750 Lm	494	0,59	18,5	143,4
	2.80m	1.8-2.4	6 x 2500 Lm	497	0,69	14,2				117	6 x 3750 Lm	494	0,59	18,5	143,4
			4 x 4350 Lm				549	0,80	17	149,2	4 x 4700 Lm	556	0,63	19,3	124,8
	3.00m	2.4-2.4	4 x 3750 Lm	510	0,71	15,6				117,2	4 x 4700 Lm	527	0,64	19,3	124,8
			4 x 4350 Lm				518	0,74	17	149,2					
	3.20m	2.4-2.4	4 x 3750 Lm	492	0,70	15,6				117,2	4 x 4700 Lm	499	0,66	19,3	124,8
			4 x 4350 Lm				491	0,68	17	149,2					
3.40m	2.4-2.4	4 x 4350 Lm	545	0,68	16,2				149,2	4 x 5950 Lm	601	0,68	20,1	164	
		4 x 5300 Lm				574	0,64	17,7	190						
7.8x7.8m 50 m ²	2.60m	2.4-2.4	9 x 3750 Lm				529	0,80	16,5	263,7	9 x 3750 Lm	518	0,57	18,5	215,1
			9 x 3750 Lm	567	0,68	15,6	506	0,75	16,5	263,7	9 x 3750 Lm	499	0,61	18,5	215,1
	3.00m	2.4-2.4	9 x 3750 Lm	549	0,66	15,6				263,7	9 x 3750 Lm	482	0,61	18,5	215,1
			9 x 4350 Lm				567	0,69	17	335,7					
	3.20m	2.4-2.4	9 x 3750 Lm	536	0,65	15,6				263,7	9 x 4700 Lm	582	0,61	19,3	280,8
			9 x 4350 Lm				549	0,62	17	335,7					
	3.40m	2.4-2.4	9 x 3750 Lm	521	0,62	15,6				263,7	9 x 4700 Lm	563	0,61	19,3	280,8
9 x 4350 Lm						535	0,57	17	335,7						
9.0x9.0m 81 m ²	2.60m	2.4-2.4	16 x 3400 Lm				522	0,91	16,2	425,6	16 x 3450 Lm	554	0,90	18,2	345,6
			12 x 4700 Lm								12 x 4700 Lm	598	0,79	19,3	374,4
	2.80m	2.4-2.4	16 x 3450 Lm								16 x 3450 Lm	543	0,91	18,2	345,6
			9 x 5300 Lm				517	0,72	17,7	427,5	12 x 4700 Lm	583	0,82	19,3	374,4
	3.00m	2.4-2.4	16 x 3450 Lm								16 x 3450 Lm	531	0,87	18,2	345,6
			12 x 4350 Lm				519	0,79	17	447,6	12 x 4700 Lm	567	0,80	19,3	374,4
			9 x 5300 Lm				499	0,92	17,7	427,5					
	3.20m	2.4-2.4	12 x 3750 Lm	498	0,75	15,6				351,6					
			16 x 3450 Lm								16 x 3450 Lm	520	0,84	18,2	345,6
	3.40m	2.4-2.4	12 x 4350 Lm	567	0,83	16,2	509	0,72	17	447,6	12 x 4700 Lm	553	0,78	19,3	374,4
			16 x 3450 Lm								16 x 3450 Lm	509	0,80	18,2	345,6
3.40m	2.4-3.0	12 x 4350 Lm	556	0,77	16,2	501	0,67	17	447,6	12 x 4700 Lm	539	0,76	19,3	374,4	
		9 x 5300 Lm	534	0,83	17,1				427,5	9 x 5950 Lm	531	0,71	20	369,0	

HV dimmer recommendation list

DIMMING LESS ENERGY LIGHTING

Over the past years, Less Energy has tested a great number of dimmers with all its high-voltage luminaires, resulting in our dimmer recommendation list. A dimmer's inclusion in this list does not guarantee 100% that it will always function well. Manufacturers sometimes change dimmer specifications without notifying us.

We do however continue testing different possible combinations, and report the latest developments in our newsletter and on our website. The dimmer recommendation list on the next page is the situation as of early 2017. We will be conducting a new round of tests to update the list in spring 2018. In case of dimmer problems with Less Energy fixtures, please contact our back office.

Possible reasons as to why a dimmer may not work well with our luminaires:

1. The dimmer requires a minimum load of 50 VA, for example, and it only has one 10 Watt spotlight connected to it.
2. The power line carries so-called TF/CAB signals that interfere with the dimmer's functioning. There are dimmers on the market with in-built TF/CAB filters.
3. Other network interference caused, for example, by electric-car charging equipment. Often the only solution is to "filter" the light group. There are specialised companies that can do this for you.

Manufacturer	Product ID	Type	Min-max load	HV-75/90 400 Lm	HV-75/90 400 Lm + dimming cable	All HV-IC luminaires	HV-WD luminaires*
ABB Busch Jaeger	6513	RC	40-420 VA	✗ Blinks	✓ 40-100%	✓ 40-100%	✗
Berker	2830 10	R	60-400 W	✗	✓ 10-100%	✓ 20-100%	✗
Berker	2867 10	RC	20-360 W	✗	✓ 10-100%	✓ 40-100%	✗
Berker	2873	RL	20-500 W	✗ 40-90%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Busch Jaeger	2247U	RL	20-500 W	✓ 20-100%	✓ 0-100%	✓ 5-100%	✓ 5-100%
Busch Jaeger	6523U	RL	10-250 W	✓ 10-100%	✓ 0-100%	✓ 5-100%	✓ 5-100%
Busch Jaeger	6523UR	RL	10-400 W	Not tested	Not tested	✓ 5-100%	✓ 5-100%
Busch Jaeger	6526U	PUSH	10-250 W	Not tested	Not tested	✗	✗
Busch Jaeger	6586-500	DIN-RAIL	10-250 W	Not tested	Not tested	✗	✗
Busch Jaeger	6197/xx-101	KNX	Var.	Not tested	Not tested	✓ 10-100%	✓ 10-100%
Busch Jaeger	UD/2S.300.2	KNX	Var.	Not tested	Not tested	✓ 0-100%	✓ 0-100%
Busch Jaeger	6252/0.4-101	F&H	Var.	Not tested	Not tested	✓ 10-100%	✓ 10-100%
DIMMAX	420SL	R	420 W	Not tested	Not tested	✓ 3-100%	✓ 3-100%
Elko	315GLE	RC	20-315 VA	✓ 40-80%	✗	✓ 40-80%	✓ 40-80%
Elko	400GLI	RL	40-300VA	✓ 40-80%	✓ 20-100%	✓ 20-100%	✓ 20-100%
Eltako	EUD6INPN-UC	RLC	0-400 W	✓ 0-100%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Feller	40600.RL	RL	40-600 W	✗ 20-80%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Feller	40300.RC	RC	20-300 W	✓ 10-100%	✗	✓ 40-100%	✓ 40-100%
Gira	1184-00	R	60-400 W	✗	✓ 10-100%	✓ 20-100%	✗
Gira	1182-00	RC	20-360 W	✗	✓ 10-100%	✓ 40-100%	✗
Gira	2262-00	RL	3-100 W	✗ 40-90%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Ipas	HD300	RC	10-300 W	✓ 40-80%	✓ 20-100%	✓ 40-100%	✗
Ipas	KED-400	RL	35-400 VA	✗ Blinks at 30%	✓ 30-100%	✓ 30-100%	✗
Jung	244 EX	R	60-400 W	✗	✓ 10-100%	✓ 20-100%	✗
Jung	243 EX	RC	20-360 W	✗	✓ 10-100%	✓ 40-100%	✗
Jung	225 NV DE	RL	3-100 W	✗ 40-90%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Legrand	078406	RLC	8-300 W	✓ 10-100%	✓ 10-100%	✓ 10-100%	✓ 10-100%
Legrand	067085	RLC	8-300 W	✓ 10-100%	✓ 10-100%	✓ 10-100%	✓ 10-100%
Niko	310-028X	RLC	2-100 W	✓ 5-100%	Not tested	✓ 10-100%	✓ 10-100%
Niko	310-029X	RLC	3-200 W	✗	Not tested	✓ 10-100%	✓ 10-100%
Niko	310-039X	RLC	3-200 W	✗	Not tested	✓ 10-100%	✓ 10-100%
Niko	310-0190X	RLC	5-325 W	✗ 4-100%	✓ 10-100%	✓ 20-100%	✓ 20-100%
Niko	330-00700	RLC	5-350W	✗ 4-100%	✓ 10-100%	✓ 30-100%	✓ 30-100%
Niko	330-00701	RLC	5-350W	✗ 4-100%	✓ 10-100%	✓ 10-100%	✓ 10-100%
Niko	410-004x0	RLC	3-200 W	✗	✓ 10-100%	✓ 10-100%	✓ 10-100%
Niko	550-00340	RLC	5-400 VA	✗ 4-100%	✓ 10-100%	✓ 10-100%	✓ 10-100%
Norwegian	KED400	R	35-400 W	✓ 10-100%	✓ 10-100%	✓ 10-100%	✗
Norwegian	KED600	R	35-600 W	✓ 10-100%	✓ 10-100%	✓ 10-100%	✗
Peha	433 HAB	RC	20-315 W	✗ 40-90%	✓ 10-100%	✗	✗
Peha	434 0A	R	60-400 W	✗ 60-80%	✓ 10-100%	✗	✗
Schneider (Merten)	MTN5131	R	40-400 W	✗ 20-80%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Schneider (Merten)	MTN5133	RL	40-600 W	✗ 20-80%	✓ 0-100%	✓ 20-100%	✓ 20-100%
Schneider (Merten)	MTN5136	RC	20-315 W	✗	✗	✓ 40-100%	✓ 40-100%
Schneider (Merten)	MTN5139	RLC	20-600 W	✗ 20-80%	✗	✓ 30-100%	✓ 30-100%
Schneider (Merten)	MTN577899	RC	20-315 W	✗	✓ 20-100%	✓ 40-100%	✗
Schneider (Merten)	MEG5170	RLC	10-200 W	✗	✗ 40-80%	✗ 40-80%	✗

✓ = OK ✗ = Not recommended Please check our website for the latest information.

2) The dimming performance of the HV-WD technology is identically to the HV-IC only visually with some dimmer types it gives an asymmetric appearance and therefore we do not recommend this.

1) Not more than 90% of the max. wattage.

Definitions and abbreviations

HV	High Voltage
HV-IC	High Voltage Integrated Chip
HV-WD	High Voltage Warm Dim
LV	Low Voltage
LV(-HE)+PS	Low Voltage (-High Efficiency) + Power Supply
SLM	Multiple Lumen (incl. DIP-switch)
COB	Chip On Board
UGR	Unified Glare Rating
CRI	Colour Rendering Index
PIR sensor	Motion sensor
AC LED	High Voltage LEDs (230 V products)
CT technology	Colour Tune technology
DIP-switch	Manual adjustable switch (Dual in Line)
IP rate	Ingress Protection rating (water and dust protection)
IK rate	Impact protection rating
Efficacy	The actual lumen output in relation to the incorporated power system
Pf	Power Factor
W	Watt
K	Kelvin
EMC	Electromagnetic Compatibility
Tj	Junction Temperature
Ta	Ambient Temperature
Tc	Contact Temperature
Lm	Lumen

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