

KNIHA SVÍTIDEL

ČZU Restaurace Farma

(aktualizované)



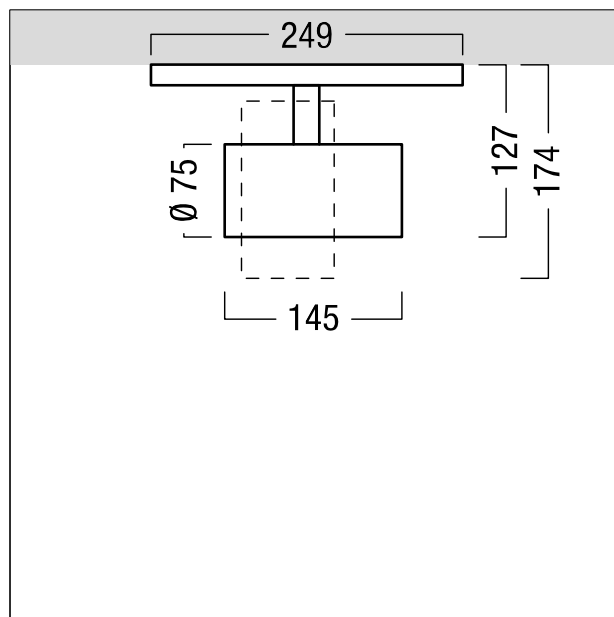
LED spotlight

LED spotlight with stabilised colour temperature; optimised for efficient and high-output accent lighting in retail and automotive applications as well as architectural lighting; Luminaire with TECTON GP (grand profile) adapter for simple, rapid mounting of luminaire to TECTON continuous-row systems, Slave luminaire for DALI control (DALI only); Colour rendering Ra > 90, colour temperature 3000 K (warm white); Luminaire with WIDE FLOOD light distribution 43 °; Chromaticity tolerance (initial MacAdam): 2; Luminaire luminous flux: 2200 lm, Luminaire efficacy: 76 lm/W; service life: 50000 h for luminous flux at 80%; Luminaire input power: 29 W; mains voltage: 220-240V/ 50/60Hz; Spotlight rotatable through 360° and tiltable through 90°; spotlight housing made of die-cast aluminium, surface finish: black Micro-textured paint; excellent glare control via front ring made of polycarbonate black; front ring serves to accommodate the accessories (optical, protective glass, honeycomb louvre); specular reflector made of polycarbonate highly reflective aluminized finish, iridescence-free; specular reflector designed to be interchangeable and retrofitted; dimensions: 249x75x168 mm; weight: 0.79 kg;

Spotlight cannot be fitted over incoming feeder, central feeder or outgoing feeder



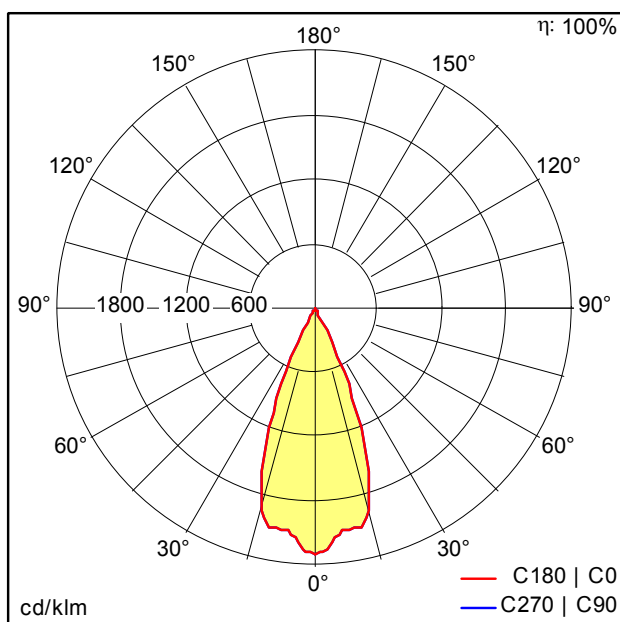
ZS_VI2_F_Strahler_M_TECGP249_blm.jpg



ZS_VI2_M_S_TEC-GP249.wmf

Light Distribution

STD - standard



- Light Source: LED
- Luminaire luminous flux*: 2200 lm
- Luminaire efficacy*: 76 lm/W
- Colour Rendering Index min.: 90
- Correlated colour temperature: 3000 Kelvin
- Chromaticity tolerance (initial MacAdam): 2
- Rated median useful life*: L80 50000h at 25°C
- Ballast: LED Driver, dimmable
- Luminaire input power*: 29 W Power factor = 0.98
- Dimming: DALI only control
- Maintenance category: C - Closed Top Reflector

This product contains a light source of energy efficiency class F.

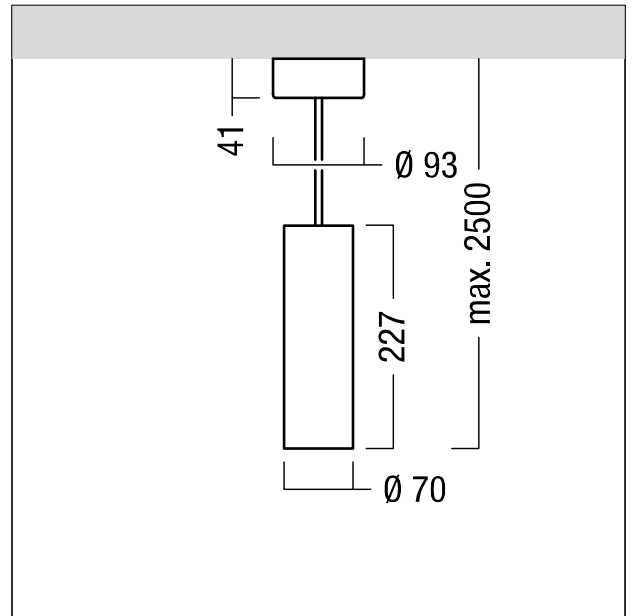


LED pendant luminaire

LED pendant luminaire (pre-assembled luminaire), "Stable White"; maximum light quality thanks to specially designed reflector, lamp (s): LED900-930, (32 °) FLOOD distribution characteristic; reflector: smooth, aluminium colour coated, matt; Colour rendering Ra > 90, colour temperature 3000 K (warm white); Chromaticity tolerance (initial MacAdam): 3; Luminaire input power: 12 W; Luminaire luminous flux: 883 lm, Luminaire efficacy: 74 lm/W; service life: 50000h at 85% luminous flux; includes control unit Slave luminaire for DALI control (DALI only); modular, high quality optical unit consisting of reflector and LED light chamber integrated in optimised thermal management of die-cast aluminium; reflector made of high-quality, UV-resistant polycarbonate; luminaire housing (2-part) die-cast aluminium, black painted; Pendant suspension with black cable, black ceiling rose; pendant cable can be shortened to length on-site in the ceiling rose; luminaire wired with halogen-free leads; power connection: 5-pole connector terminal; mains voltage: 220-240V / 0/50/60Hz; Dimensions: Ø70 x 227 mm; total length of luminaire including pendant cable max. 2500mm; weight: 1.49 kg; Note: UGR<19 for office applications compliant with EN12464 (depending on luminaire type)



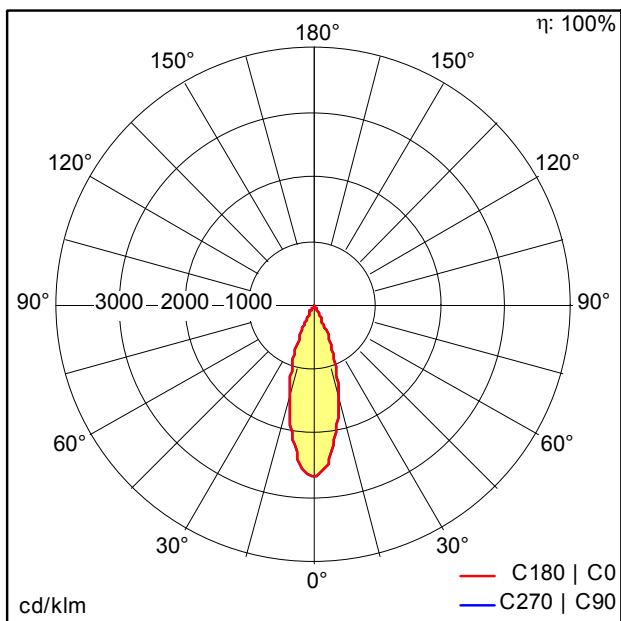
ZS_PA1_F_70_BK_BLM_SLM.jpg



ZS_PA1_M_PEND_R70_LED.wmf

Light Distribution

STD - standard



ST9361.Idt

- Light Source: LED
- Luminaire luminous flux*: 883 lm
- Luminaire efficacy*: 74 lm/W
- Colour Rendering Index min.: 90
- Ballast: 1 x 06826438 DRV TC PROF 38W 1.05A 54V D #DALI BI
- Correlated colour temperature: 3000 Kelvin
- Chromaticity tolerance (initial MacAdam): 3
- Rated median useful life*: L85 50000h at 25°C
- Luminaire input power*: 12 W Power factor = 0.9
- Dimming: LDO dimmable to 1% over DALI
- Maintenance category: C - Closed Top Reflector

This product contains a light source of energy efficiency class F.

All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.



PENDANT LUMINAIRE

Spherical pendant luminaire; lamp(s): 1/LED lamp (retrofit); lampholder: E27; sphere of polycarbonate with semi-transparent, reflective bronze-plated finish; lighting impact: semi-transparent reflection of light creates sense of plasticity and depth; chrome-matt ceiling rose; transparent pendant cord; power connection: 3-pole terminal strip; mains voltage: 230V/50Hz; Class of protection: I; opal internal sphere as design element to enhance room depth and reduce glare (please order separately, see Accessories); recommendation: use LED lamps (retrofit), also suitable for use with general purpose lamps A60 up to 60W max.; Dimensions: Ø500 mm, total length approx. 4000 mm; weight: 2.8 kg;

Note: Product image and dimensional drawing show luminaire fitted with internal sphere

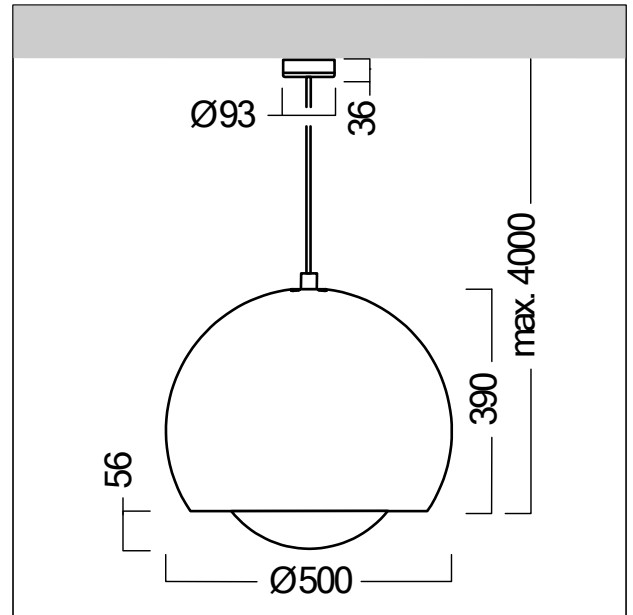
Attachment: SCON-S 500 INNENKUGEL TCG-SE OPAL

60500002

Opal internal sphere for SCONFINE SFERA 500 E27 made of glass; ensures optimum glare control and combined with the reflective coating on the pendant luminaire also intensifies the sense depth and plasticity; weight: 2.4 kg



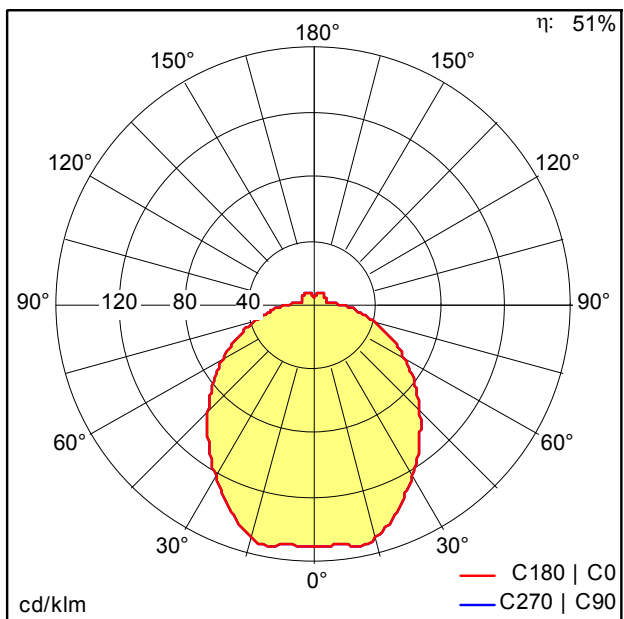
ZS_SCO_F_Sfera500_E27_bronze.jpg



ZS_SCO_M_SFERA_500_Kugel.wmf

Light Distribution

STD - standard



ST6110.Idt

- Light Source: 1 x TCG-SE / 21W
- Luminaire luminous flux*: 544 lm
- Lamp luminous flux: 1 x 1060 lm
- Luminaire efficacy*: 26 lm/W
- Colour Rendering Index min.: 80
- Luminaire input power*: 21 W
- Maintenance category: C - Closed Top Reflector

All values marked with an * are rated values. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

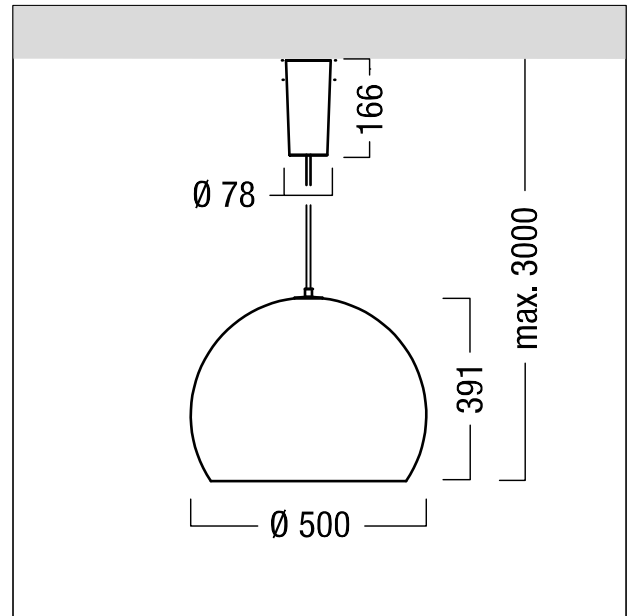


Pendant luminaire

Spherical pendant luminaire; sphere of polycarbonate with semi-transparent, reflective bronze-plated finish; lighting impact: semi-transparent reflection of light creates sense of plasticity and depth; lamp(s): LED750-930, Luminaire or spotlight with FLOOD light distribution (27 °); Colour rendering Ra > 90, colour temperature 3000 K (warm white); Chromaticity tolerance (initial MacAdam): 3; Luminaire luminous flux: 750 lm, Luminaire efficacy: 83 lm/W; service life: 50000h for luminous flux at 80% of initial value; UV-free and IR-free light; modular, high quality optical unit consisting of reflector and LED light chamber; passive thermal management achieved by optimised design of luminaire housing; reflector made of high-quality, UV-resistant polycarbonate, highly reflective aluminized finish, iridescence-free; electronic control gear, integrated in ceiling rose; ceiling rose of polycarbonate, chrome matt; transparent pendant cord; electrical connection: 3-pole connector terminal; Luminaire input power: 9 W; mains voltage: 220-240V/ 50/60Hz ; class of protection: I; Dimensions: Ø500 mm, total length approx. 3000mm; weight: 2.6 kg



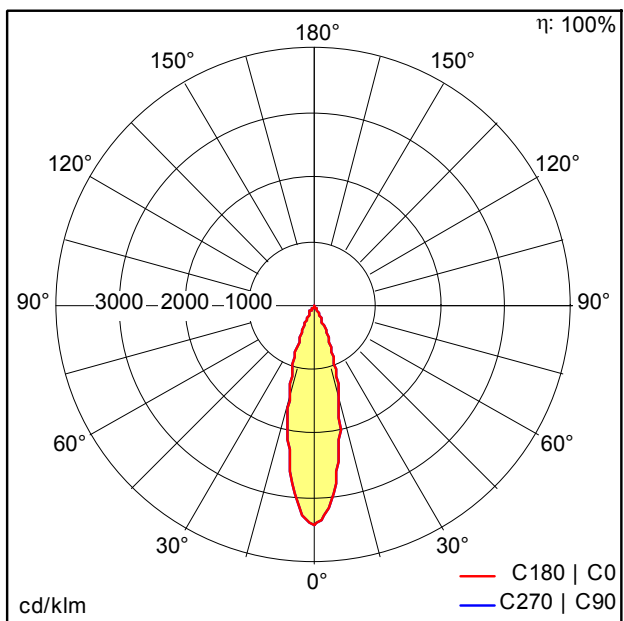
ZS_SCO_F_Sfera500_LED_bronze.jpg



ZS_SCO_M_SFERA_500_S_AC_AM_LED.wmf

Light Distribution

STD - standard



ST8370_N.Idt

- Light Source: LED
- Luminaire luminous flux*: 750 lm
- Luminaire efficacy*: 83 lm/W
- Colour Rendering Index min.: 90
- Ballast: 1 x 28000704 LC 10W 150-400mA flexC SC EXC
- Correlated colour temperature: 3000 Kelvin
- Chromaticity tolerance (initial MacAdam): 3
- Rated median useful life*: L80 50000h at 25°C
- Luminaire input power*: 9 W Power factor = 0.9
- Maintenance category: C - Closed Top Reflector

This product contains a light source of energy efficiency class F.

All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

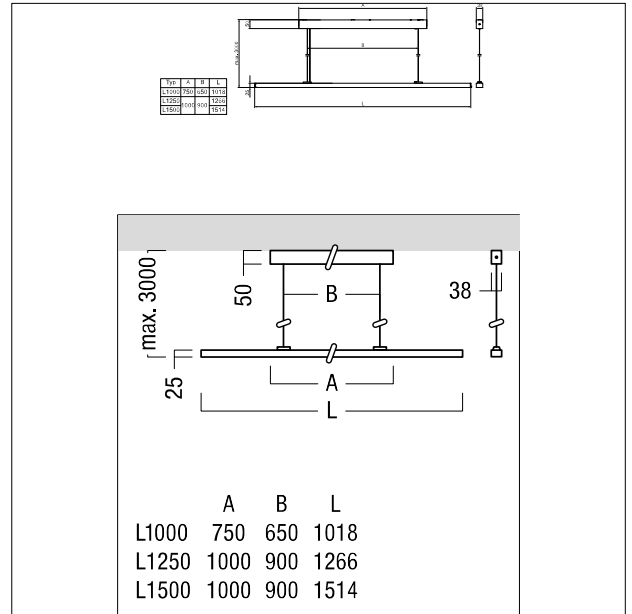


Pendant module

LED pendant module in compact, slimline design and the same design as the Supersystem inline recessed module, Micropyramidal optic with glare-free light distribution $UGR < 19$ according to EN 12464-2011; length: 1266mm; symmetric wide beam homogeneous light distribution with a beam angle of 60° ; defined light emission; light control via high-quality aluminium-sputtered primary reflector unit made of polycarbonate; lamps: LED2500-930; Colour rendering $R_a > 90$, colour temperature 3000 K (warm white); Chromaticity tolerance (initial MacAdam): 2; Luminaire luminous flux: 2300 lm, Luminaire efficacy: 77 lm/W; service life: 50000h at 80% luminous flux; housing made of aluminium extrusion, black powder coated; LED driver in the ceiling rose provides a central location for the feed (outlet), Slave luminaire for DALI control (DALI only), connection: 5-pole connector terminal; Luminaire input power: 30 W; mains voltage: 220-240V / 0/50/60Hz, for use with 220V DC central battery ; dimensions: 1266x38x25 mm; weight: 3.14 kg; intuitive height adjustment via patented suspension mechanism, maximum suspension length 3m,



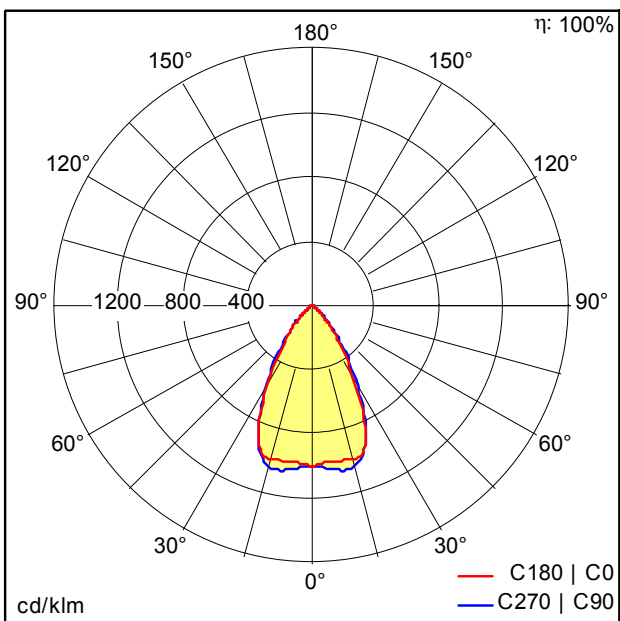
ZS_SUL_F_inline_suspendant_BK.jpg



ZS_SUL_M_P_DI.wmf

Light Distribution

STD - standard



ST9760.Idt

- Light Source: LED
- Luminaire luminous flux*: 2300 lm
- Luminaire efficacy*: 77 lm/W
- Colour Rendering Index min.: 90
- Ballast: 1 x 28000676 LCA 45W 500-1400mA one4all SC PRE
- Correlated colour temperature: 3000 Kelvin
- Chromaticity tolerance (initial MacAdam): 2
- Rated median useful life*: L80 50000h at 25°C
- Luminaire input power*: 30 W Power factor = 0.95
- Standby Power*: 0.15 W
- Dimming: LDO dimmable to 1% over DALI
- Maintenance category: C - Closed Top Reflector

This product contains a light source of energy efficiency class D.

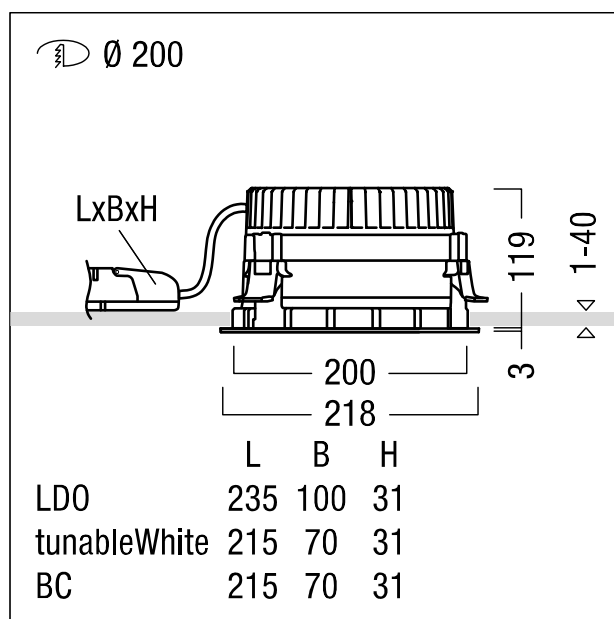
All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of $\pm 10\%$. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

LED ceiling-recessed luminaire

LED ceiling-recessed luminaire (pre-assembled luminaire); "tunableWhite" LED luminaire, dynamic variation of colour temperature with constant luminaire luminous flux can be controlled via DALI signal (DT8 Standard); symmetric wide-beam light distribution with maximum luminaire efficiency and optimum photometric properties; lamp(s): LED1800-927-65; Colour rendering Ra > 90, colour temperature (tunable) 2700-6500 K (warm white-neutral white-daylight white); Chromaticity tolerance (initial MacAdam): 3; Luminaire input power: 23 W; Luminaire luminous flux: 1700 lm, Luminaire efficacy: 74 lm/W; service life: 50000 h for luminous flux at 80% of initial value; with separate ballast unit Slave luminaire for DALI control (DALI only); dimming range: 1-100%, includes "Fade-to Zero"; high-quality reflector unit fixed to modular LED lighting chamber by twist-and-lock mechanism; high-efficiency LED lighting chamber is integrated in optimised, passive thermal management system of die-cast aluminium; reflector: smooth, matt aluminized finish; reflector/trim made of high-quality, UV-resistant polycarbonate; cover ring white; mounting ring of Glass fibre-reinforced polycarbonate (PC), grey; luminaire unit can be fitted quickly without tools using twist-and-lock mechanism; IP44_IP20; luminaire wired with halogen-free leads; power connection: 5-pole connector terminal, loop-in/loop-out possible; mains voltage: 220-240V / 0/50/60Hz, for use with 220V DC central battery ; installation: tool-free quick installation using antislip spring clips in ceilings of thickness 1-40mm; ceiling cutout: 200mm, recess depth: 129mm; weight: 1.29 kg;
Note: UGR<19 (aluminized reflector type) for office applications in compliance with EN12464



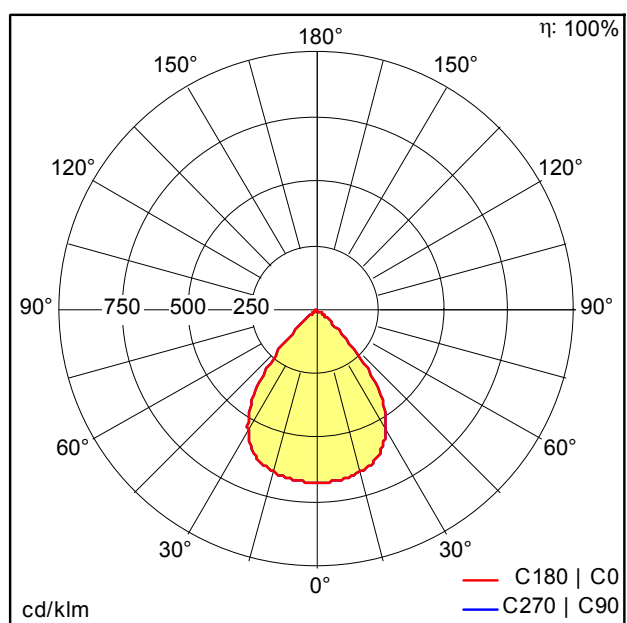
ZS_PAE_F_E200_HM_Rahmen_WW.jpg



ZS_PAI_M_R200H_LED_WH.wmf

Light Distribution

STD - standard



ST9483.ltd

- Light Source: LED
- Luminaire luminous flux*: 1700 lm
- Luminaire efficacy*: 74 lm/W
- Colour Rendering Index min.: 90
- Ballast: 1 x 89603255 TWK TR 1 R 927-965 2200 22.8W
- Correlated colour temperature: 2700 Kelvin
- Chromaticity tolerance (initial MacAdam): 3
- Rated median useful life*: L80 50000h at 25°C
- Luminaire input power*: 23 W Power factor = 0.96
- Standby Power*: 0.25 W
- Dimming: LDO dimmable to 1% over DALI

This product contains a light source of energy efficiency class F.
Please also consult the additional information on the next page

Chalice

96642305 CHAL 200 LED2000-840 HF RSB

LED 18W CHAL_2090	CB	TI	IP20	IK03	CE	EAC	850°C	T _a 25	
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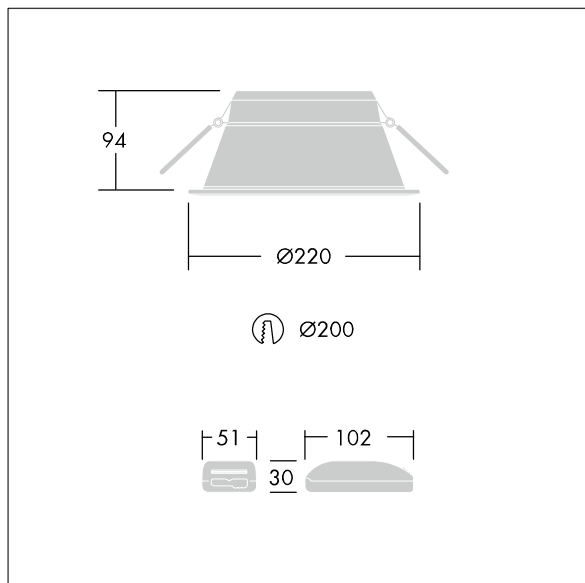
Chalice

A recessed LED downlight. Remote fixed output control gear. IP54 (IP20 from above), Class II electrical. Body: aluminium, painted white (RAL 9016). Reflector: satinbrite. Suitable for mounting in ceiling thicknesses of 1-40mm in a Ø200mm cut-out. Complete with 4000K LED.

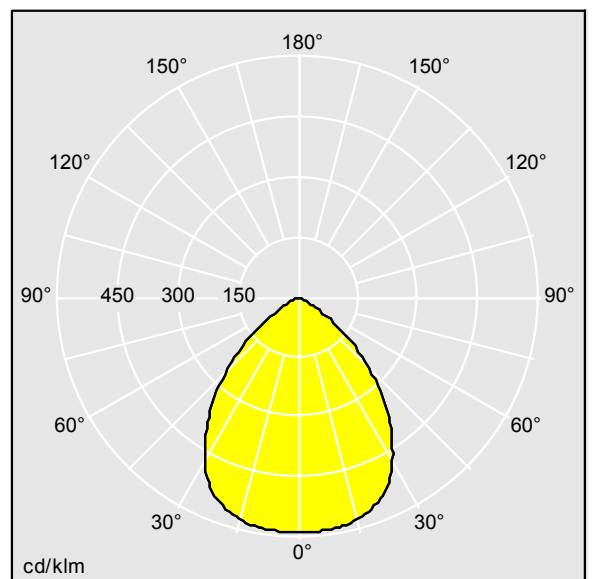
Dimensions: Ø220 x 94 mm
 Luminaire input power: 17.2 W
 Luminaire luminous flux: 2090 lm
 Luminaire efficacy: 122 lm/W
 Weight: 0.91 kg



TLG_CHLC_F_PDB.jpg



TLG_CHLC_M_200MB.wmf



TLG_SP_0042145.ltd

Lamp position: STD - standard
 Light Source: LED
 Luminaire luminous flux*: 2090 lm
 Luminaire efficacy*: 122 lm/W
 Colour Rendering Index min.: 80
 Ballast: 1 x 00154502 DRV FP LC 20W 700mA 29V
 F #FY-5914 CSR
 LOR: 1,00 ULOR: 0,00 DLOR: 1,00

Correlated colour temperature: 4000 Kelvin
 Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life*:
 L80 50000h at 25°C
 Luminaire input power*: 17.2 W Power factor = 0.95
 Dimming: FO
 Maintenance category: C - Closed Top Reflector

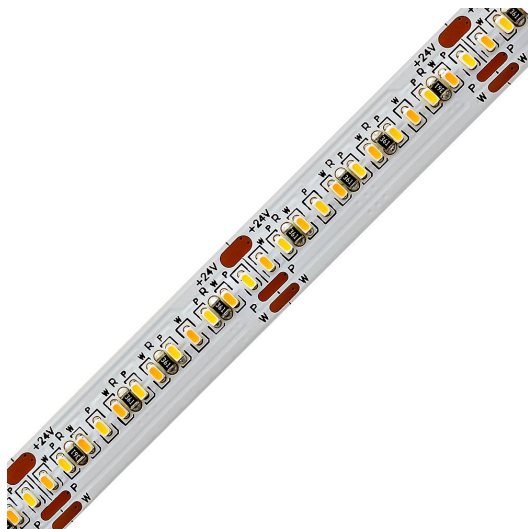
This product contains a light source of energy efficiency class D.

All values marked with an * are rated values. Thorn uses tried and tested components from leading suppliers, however there may be isolated instances of technology-related failures of individual LEDs during the rated product lifetime. International standards set the tolerance in initial flux and connected load at $\pm 10\%$. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

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LED pásek 360/2x7,2/TW 24V IP20 10mm/10m

00219047



Popis

Pro použití v hlavních svítidlech v interiéru

Nastavení barevné teploty světla v rozmezí od 2700 do 6500K

Vysoký světelný výkon

Dlouhodobá životnost a stabilita světelného toku

Napájecí napětí 24V umožňuje snadno vytvářet dlouhé světelné linie

Řízení barevné teploty a jasu standardními CCT ovladači pomocí PWM modulace

Napájení ze zdroje malého bezpečného napětí (SELV) 24V DC. Zdroj výkonově dimenzujte podle celkového příkonu připojeného pásku.

Použití ve vnitřním normálním suchém prostředí. Ve vlhkém prostředí a venkovních prostorách je třeba LED pásek proti vlivům prostředí z odolnit zalitím silikonem v hliníkovém profilu.

Parametry

příkon na kanál	7,2 W/m (2 kanály 7,2 W/m)
napájecí napětí	24V
počet LED na metr	360 LED/m (2x180 LED/m)
provedení IP	IP20
šířka	10 mm
TunableWhite	2700-6000 K
Stupeň krytí	IP20
LED2110	
CRI90	

Aquaforce Pro

96630754 AQFPRO S LED4300-840 PC MB HF

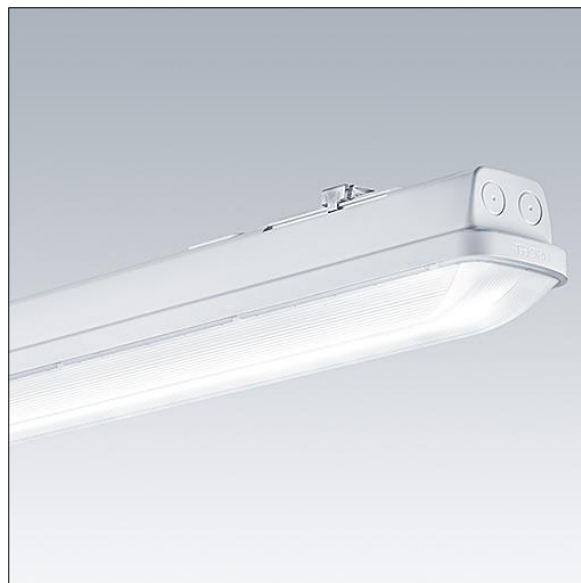
LED 35W Z_AQ4300-840 4530			IP66			IK08						850°C	T _a -20 +35	
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Aquaforce Pro

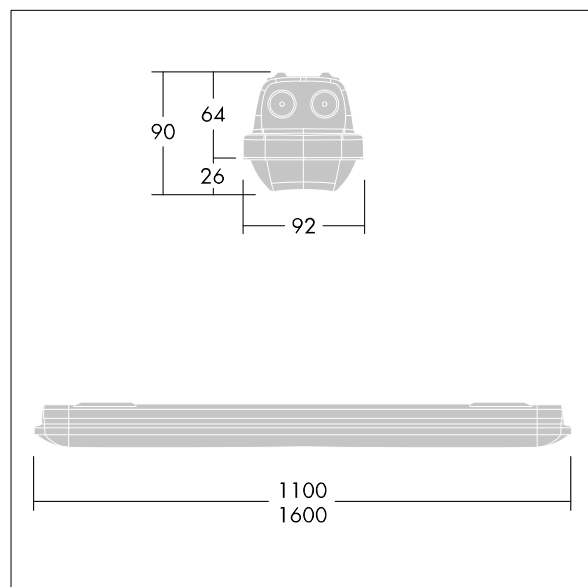
An IP66, dust and moisture resistant LED luminaire. Electronic, fixed output control gear. With medium beam distribution. Class I electrical. Canopy: light grey polycarbonate. Diffuser: high transmission opal polycarbonate with refraction prisms. Patented snap-on mechanism EasyClick for clipless mounting of diffuser. For surface or suspended mounting. Quick-fix brackets supplied for surface mounting. Suitable for ceiling or wall (both vertically and horizontally). Approved for indoor use or in canopied outdoor areas (see installation instructions). Mounting kits for conduit, chain suspension and catenary suspension are available as accessories. Suitable for through wiring with H05VV or NYM cable (rated 10A). ambient temperature: -20°C to +35°C. Complete with 4000K LED..

Note: please contact your consultant if you are planning to use the luminaire in environments with chemical pollutants, high or condensing humidity and major variations in temperature.

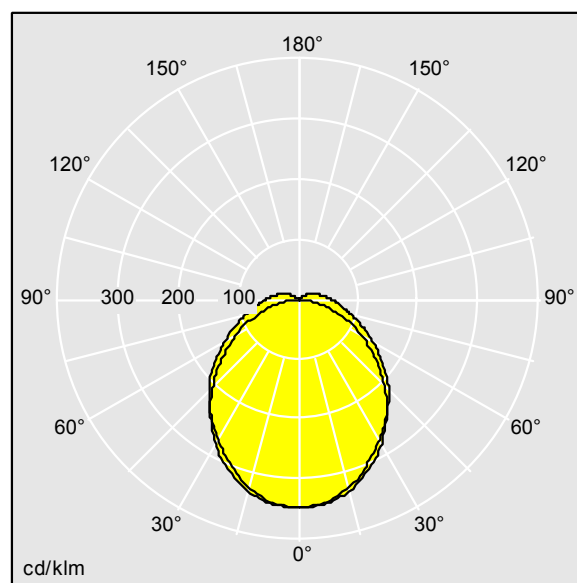
Dimensions: 1100 x 92 x 90 mm
Luminaire input power: 35.2 W
Luminaire luminous flux: 4530 lm
Luminaire efficacy: 129 lm/W
Weight: 1.7 kg



TLG_AQUP_F_PDB_1100MED.jpg



TLG_AQUP_M_LD1.wmf



D42271AA_AQFPRO_S_LED4300-840_PC_MB_HF.Idt

Lamp position: STD - standard
Light Source: LED
Luminaire luminous flux*: 4530 lm
Luminaire efficacy*: 129 lm/W
Colour Rendering Index min.: 80
Ballast: 1 x 00156022 DRV FP LC 54W 350mA 153V
F #FY-0717-2 SC
Correlated colour temperature: 4000 Kelvin

Chromaticity tolerance (initial MacAdam): 3
Rated median useful life*:
L80 50000h at 25°C
Luminaire input power*: 35.2 W Power factor = 0.96
Dimming: HF
Maintenance category: E - Dust-proof IP5X
Total harmonic distortion (THD): 13.61 %
LOR: 1,00 ULOR: 0,07 DLOR: 0,94

Aquaforce Pro

96630757 AQFPRO L LED6400-840 PC MB HF

LED 53W Z_AQ6400-840 6790			IP66			IK08						850°C	T _a -20 +35	
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Aquaforce Pro

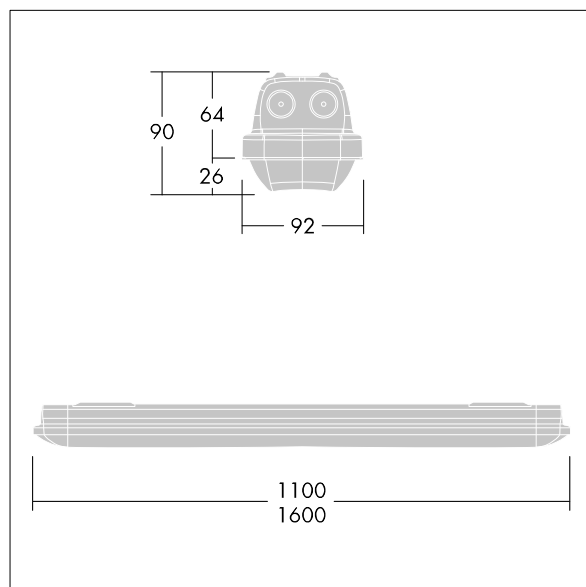
An IP66, dust and moisture resistant LED luminaire. Electronic, fixed output control gear. With medium beam distribution. Class I electrical. Canopy: light grey polycarbonate. Diffuser: high transmission opal polycarbonate with refraction prisms. Patented snap-on mechanism EasyClick for clipless mounting of diffuser. For surface or suspended mounting. Quick-fix brackets supplied for surface mounting. Suitable for ceiling or wall (both vertically and horizontally). Approved for indoor use or in canopied outdoor areas (see installation instructions). Mounting kits for conduit, chain suspension and catenary suspension are available as accessories. Suitable for through wiring with H05VV or NYM cable (rated 10A). ambient temperature: -20°C to +35°C. Complete with 4000K LED..

Note: please contact your consultant if you are planning to use the luminaire in environments with chemical pollutants, high or condensing humidity and major variations in temperature.

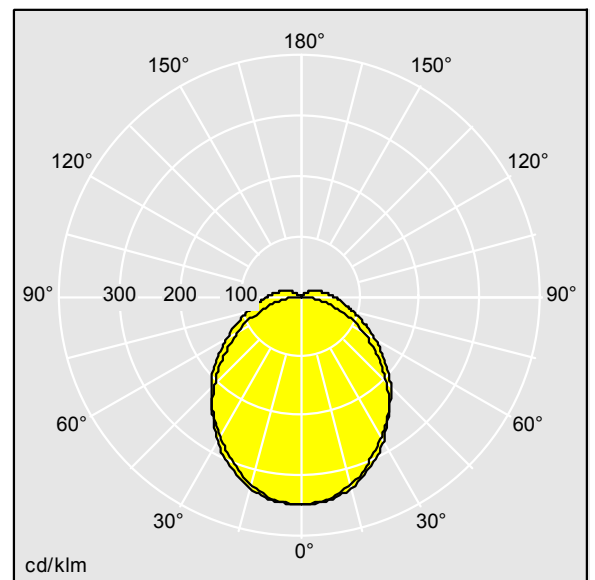
Dimensions: 1600 x 92 x 90 mm
 Luminaire input power: 52.7 W
 Luminaire luminous flux: 6790 lm
 Luminaire efficacy: 129 lm/W
 Weight: 2.1 kg



TLG_AQUP_F_PDB_1600MED.jpg



TLG_AQUP_M_LD1.wmf



D42271AA_AQFPRO_L_LED6400-840_PC_MB_HF.Idt

Lamp position: STD - standard
 Light Source: LED
 Luminaire luminous flux*: 6790 lm
 Luminaire efficacy*: 129 lm/W
 Colour Rendering Index min.: 80
 Ballast: 1 x 00156022 DRV FP LC 54W 350mA 153V
 F #FY-0717-2 SC
 Correlated colour temperature: 4000 Kelvin

Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life*:
 L80 50000h at 25°C
 Luminaire input power*: 52.7 W Power factor = 0.96
 Dimming: HF
 Maintenance category: E - Dust-proof IP5X
 Total harmonic distortion (THD): 10.26 %
 LOR: 1,00 ULOR: 0,07 DLOR: 0,94

Beta 3

96634488 BETA 3 4100-840 HF LRO Q600

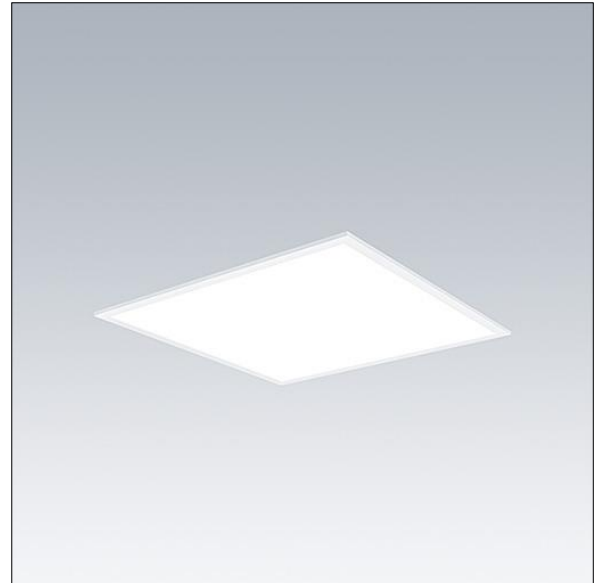
LED 34W BET3_MO-840	IEC EN 60598-1 RG 0	IP20 ↑IP44	IK03		CE					650°C	T _a -20 +40	
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Beta 3

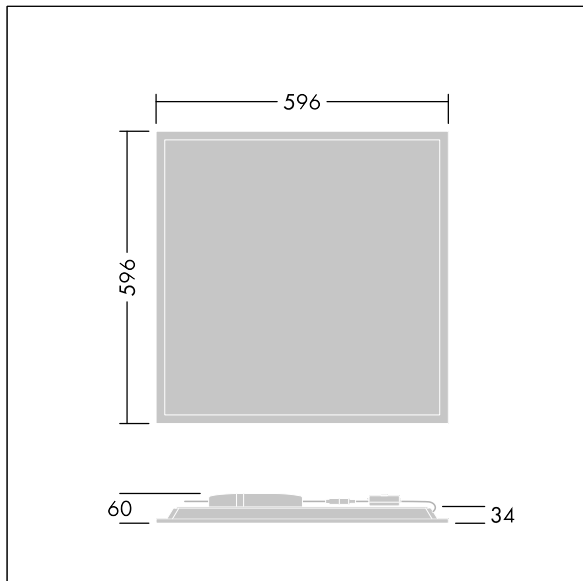
A square ceiling recessed LED luminaire. Fixed output LED driver. Class II electrical, IP44_IP20, Impact strength: IK03. Body: sheet steel, white (close to RAL9016). Diffuser: Opalised PMMA with micro-prismatic foil inlay. Supplied with safety wire. Complete with 4000K LED.

UGR < 19 and L65 < 3000 cd/m² as per EN 12464

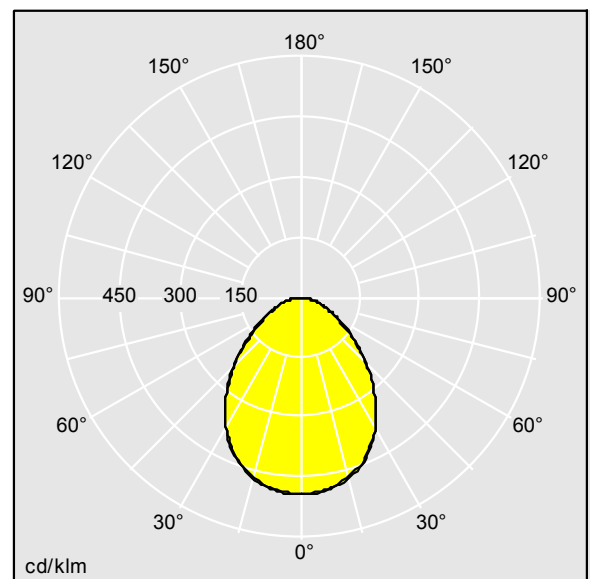
Dimensions: 596 x 596 x 34 mm
 Luminaire input power: 33.6 W
 Luminaire luminous flux: 4100 lm
 Luminaire efficacy: 122 lm/W
 Weight: 2 kg



TLG_BET3_F_MREQ.jpg



TLG_BET3_M_Q600.wmf



BETAI1596MO4000K.idt

Lamp position: STD - standard
 Light Source: LED
 Luminaire luminous flux*: 4100 lm
 Luminaire efficacy*: 122 lm/W
 Colour Rendering Index min.: 80
 Ballast: 1 x 87500959 LC 38/900/42 fixC SRL ADV2
 LOR: 1,00 ULOR: 0,00 DLOR: 1,00

Correlated colour temperature: 4000 Kelvin
 Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life*:
 L80 50000h at 25°C
 Luminaire input power*: 33.6 W Power factor = 0.95
 Dimming: FIX
 Maintenance category: D - Enclosed IP2X

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Nouzové osvětlení

Escape sign luminaire

LED Escape sign luminaire Luminaire with local battery supply for 1 h emergency lighting in maintained or non-maintained mode, with automatic test (auto-test) via the luminaire, optional central monitoring via DALI, display of luminaire status via status LED; wall mounted; die-cast aluminium base unit in white powder-coated finish; control unit with NFC interface for addressing, configuration and maintenance via PROset Pen (article no.: 22170290) or PROset app; addressing also alternatively possible visually or via EZ-addressing; plug-in terminals for through-wiring up to 2.5 mm²; cable feed from any side, flexible cable guide in housing base; no tools required to fit frameless pictogram or to replace the NiMH battery in the self-contained models (E1D, E3D and E8D); protection rating: IP54, class of protection: SC1; Impact strength: IK03; Non-maintained and maintained mode settable via jumper and NFC interface, Maintained mode: +5°C to +30°C, non-maintained mode: +5°C to +35°C; power supply: 220-240 V AC (+/- 10%), 50-60 Hz; Dimensions: 201 x 87 x 61 mm; weight: 0.53 kg, Luminaire wired with halogen-free leads; for use in environments in which the accumulation of non-conductive dust on the luminaire can be expected; please order escape sign separately; Robust, integrated battery with 3-year warranty. Valid according to terms of the manufacturer's warranty, available at https://www.zumtobel.com/media/downloads/Garantiebedingungen_DE.pdf; Battery warranty invalid if installation takes place three (3) months after delivery EXW (Incoterms 2010)

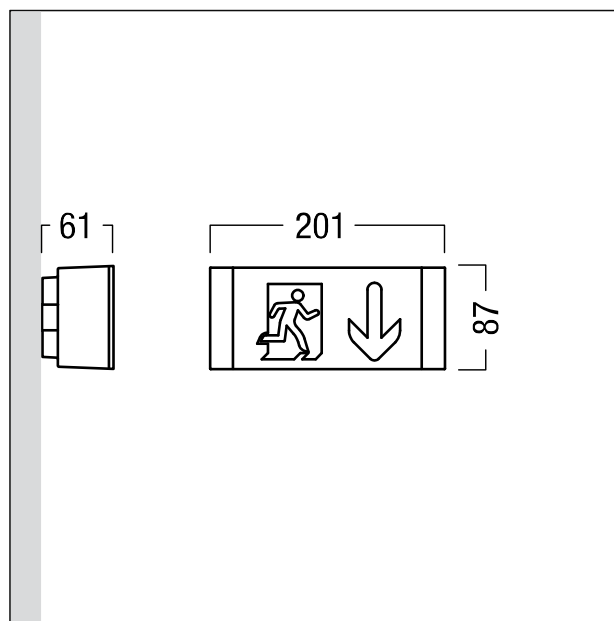
Attachment: ERGOSIGN 80 SP1-E002-D

22166887

Escape sign for ERGOSIGN MSW. Diffuser made of opal PC with integral optical waveguide panel and reflector; digitally printed pictogram; crystal-clear TPE provides continuous seal around sign; luminance > 200 cd/m²; downward light outlet provides extra illumination of escape route. Escape sign according to ISO 7010: 1-sided; symbol: Emergency exit. Direction arrow down with Zumtobel Logo. Tool-free mounting; Recognition distance according to EN 1838: 16 m; Dimensions: 201 x 87 x 61 mm, weight: 0.18 kg



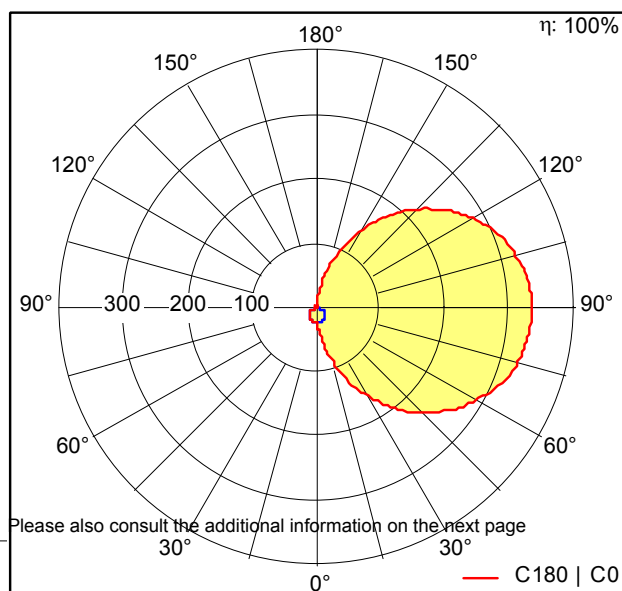
ZS_ONL_F_ERGOSIGN_AB_komplett_RZ_U.jpg



ZS_ONL_M_ergo_Anbau.wmf

Light Distribution

STD - standard



- Light Source: LED
- Luminaire luminous flux*: 18 lm
- Total emergency luminous flux: 1 lm
- Luminaire efficacy*: 5 lm/W
- Ballast: 1 x 89800524 EM TR EM powerLED NTx 102 DIM 5W ZUM
- Rated median useful life*: L90 50000h at 25°C
- Luminaire input power*: 3.9 W Power factor = 0.66
- Service life rating: 1 h

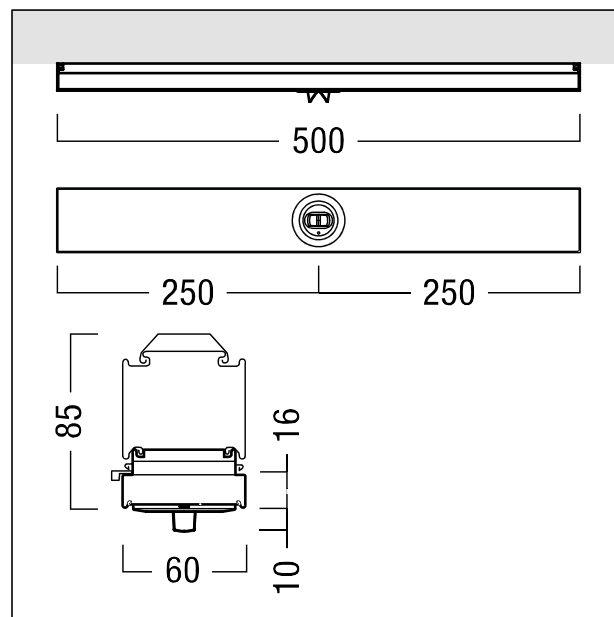


Safety luminaire

LED emergency luminaire for antipanic lighting with min. 0,5 lux acc. to EN 1838; Room height 2.2 to 9 m; 2 high power LEDs, neutral white 4,000 K; lens of polycarbonate; optimum thermal management via heat sink; TECTON module; Tool-free connection to TECTON continuous row system; roll-formed sheet steel with polyester paint finish; housing colour black (RAL9005); Luminaire with local battery supply for 1 h emergency lighting in maintained or non-maintained mode, with automatic test (auto-test) via the luminaire, optional central monitoring via DALI, display of luminaire status via status LED; NFC interface for addressing, configuration and maintenance via PROset Pen (article no.: 22170290) or PROset app; addressing also alternatively possible visually or via EZ-addressing; Maintained and non-maintained mode: +5°C to +30°C; power supply: 220-240 V AC (+/- 10%), 50-60 Hz; Luminaire input power: 4.7 W; Non-maintained and maintained mode settable via jumper and NFC interface; IP20; SC1; Luminaire wired with halogen-free and silicone-free leads; Impact strength: IK04; Dimensions: 500 x 60 x 85 mm; weight: 1 kg; Robust, integrated battery with 3-year warranty. Valid according to terms of the manufacturer's warranty, available at https://www.zumtobel.com/media/downloads/Garantiebedingungen_DE.pdf; Battery warranty invalid if installation takes place three (3) months after delivery EXW (Incoterms 2010)



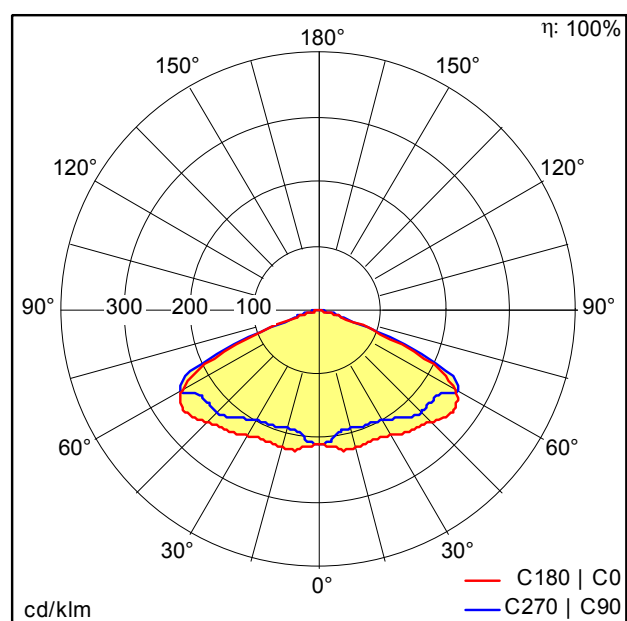
ZS_RES_F_PRO_TEC-GP_ExD_ANT_BK.jpg



ZS_RES_M_PRO_TEC-GP_ExD.wmf

Light Distribution

STD - standard



D39163AA_RESCLITE_PRO_TEC-GP_ANT_E1D_WH.Idt

- Light Source: LED
- Luminaire luminous flux*: 174 lm
- Total emergency luminous flux: 174 lm
- Luminaire efficacy*: 37 lm/W
- Colour Rendering Index min.: 70
- Ballast: 1 x 89800524 EM TR EM powerLED NTx 102 DIM 5W ZUM
- Chromaticity tolerance (initial MacAdam): 5
- Rated median useful life*: L95 100000h at 25°C
- Luminaire input power*: 4.7 W Power factor = 0.7
- Standby Power*: 1.2 W
- Charging power: 1.25 W
- Service life rating: 1 h

This product contains a light source of energy efficiency class D.

All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.



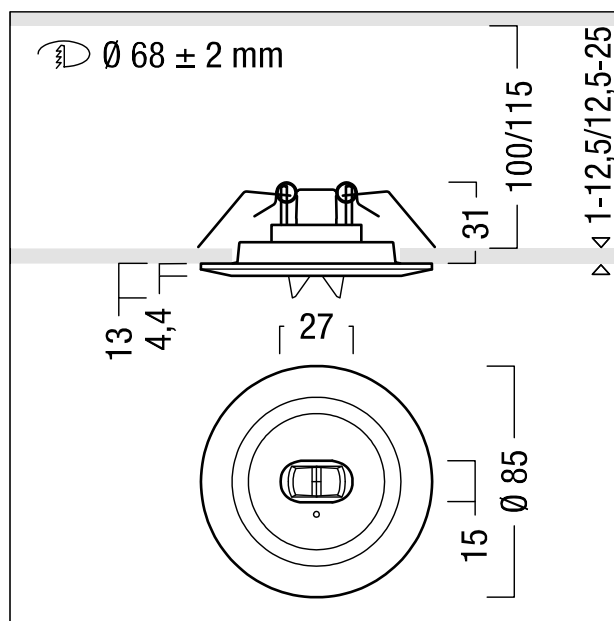


Safety luminaire

LED emergency luminaire for escape route lighting with min. 1 lux compliant to EN 1838; Room height 2.2 to 10 m; high performance (HP) version enables wider luminaire spacing and applications with higher illuminances (e.g. 5 lux, 1 footcandle); 2 high power LEDs, neutral white 4,000 K; lens of polycarbonate; optimum thermal management via heat sink; Ceiling recessed luminaire for 68 mm ceiling cut-out and ceiling thickness from 1 - 25 mm; tool-free rapid luminaire installation through specially shaped retaining springs; tool-free replacement of battery and control unit; Cover ring diecast aluminium, powder-coated; housing colour white (close to RAL9016); Polypropylene (PP) gearbox for installation in ceiling recess; Luminaire with local battery supply for 3 h emergency lighting in maintained or non-maintained mode, with automatic test (auto-test) via the luminaire, optional central monitoring via DALI; with optical addressing (identification of luminaire via green/red flashing of status LED); Maintained mode: +5°C to +25°C, non-maintained mode: +5°C to +30°C; power supply: 220-240 V AC (+/- 10%), 50-60 Hz; Luminaire input power: 9.3 W; Delivery condition: non-maintained mode; Change to maintained-mode possible using a wire bridge between the L input of the terminal block and the "SWL" (Switched Live) input of the ballast; IP20; SC1; Luminaire wired with halogen-free and silicone-free leads. Suitable for installing in concrete casting surround (separately ordered); Plug-in terminals for through-wiring up to 2.5 mm²; Impact strength: IK04; Dimensions: Ø85 x 4 mm; weight: 0.75 kg; ;



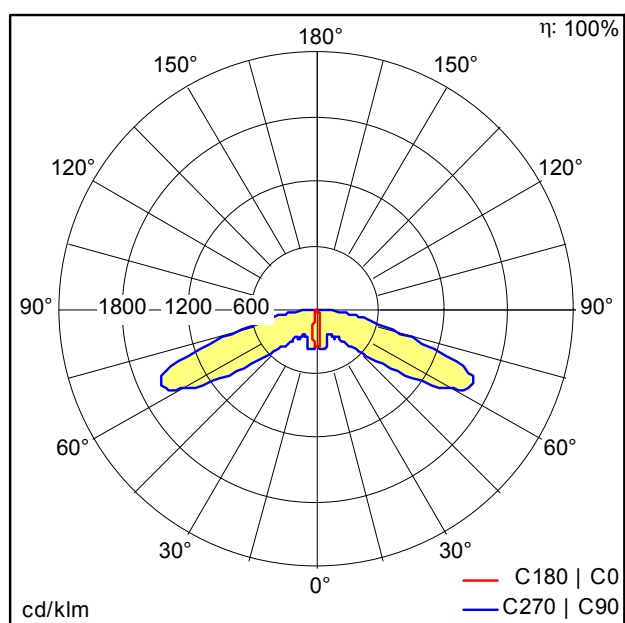
ZS_RES_F_PRO_MRCR_E3D_ESC_HP_WH.jpg



ZS_RES_M_PRO_MRCR.wmf

Light Distribution

STD - standard



D43503AA_RESCLITE_PRO-M_MRCR_ESC_HP_E3D_WH.Idt

- Light Source: LED
- Luminaire luminous flux*: 436 lm
- Total emergency luminous flux: 436 lm
- Luminaire efficacy*: 47 lm/W
- Colour Rendering Index min.: 70
- Ballast: 1 x 00158593 DRV EM MA LBS P ST DA 3.8W 1#1A 100%
- Chromaticity tolerance (initial MacAdam): 5
- Rated median useful life*: L95 100000h at 25°C
- Luminaire input power*: 9.3 W Power factor = 0.66
- Standby Power*: 1.2 W
- Charging power: 2.27 W
- Service life rating: 3 h

All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.



Escape sign luminaire

LED Escape sign luminaire, Luminaire with local battery supply for 1 h emergency lighting in maintained or non-maintained mode, with automatic test (auto-test) via the luminaire, optional central monitoring via DALI, display of luminaire status via status LED; ; ; housing made of polycarbonate white (RAL 9016), injection moulded; addressing also alternatively possible visually or via EZ-addressing; luminaire easy to install; zero maintenance thanks to LED technology; 2 supplementary high power LEDs and asymmetric lenses adjustable through 360° for escape route lighting; uniform backlighting of pictogram; luminance > 500 cd/m² in the white region; Luminaire input power: 6.6 W; protection rating: IP42, class of protection: SC2; Impact strength: IK05; Non-maintained and maintained mode settable via jumper and NFC interface, Maintained mode: +5°C to +30°C, non-maintained mode: +5°C to +35°C; power supply: 220-240 V AC (+/- 10%), 50-60 Hz; dimensions of luminaire including escape sign: 232 x 46 x 176 mm; weight: 0.5 kg; Luminaire wired with halogen-free leads; Luminaire with D symbol (for use in environments in which no unusual accumulation of dust is expected); please order escape sign separately; Robust, integrated battery with 3-year warranty. Valid according to terms of the manufacturer's warranty, available at https://www.zumtobel.com/media/downloads/Garantiebedingungen_DE.pdf; Battery warranty invalid if installation takes place three (3) months after delivery EXW (Incoterms 2010)

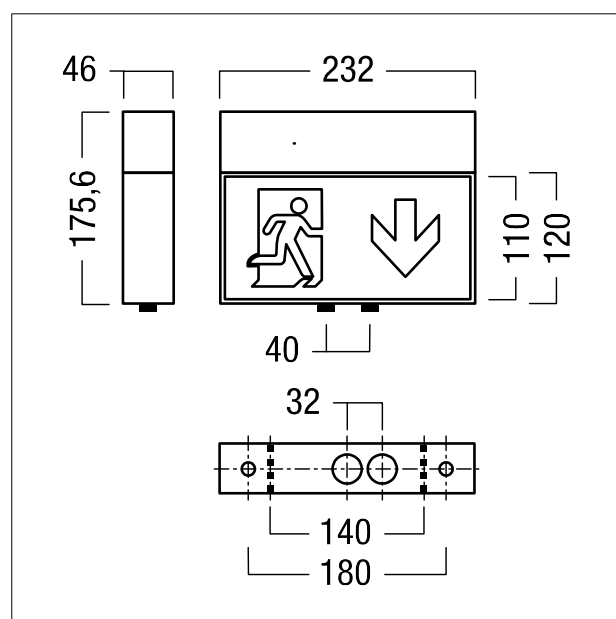
Attachment: CROSSIGN 110 SP1-E002-D

22168604

Escape sign for CROSSIGN 110 MSC/TEC-GP, cover with escape sign made of white PC and digitally printed; escape sign according to ISO 7010: 1-sided; symbol: Emergency exit. Direction arrow down with Zumtobel Logo; Recognition distance according to EN 1838: 22 m; dimensions: 222 x 5 x 110 mm; weight: 0.19 kg.



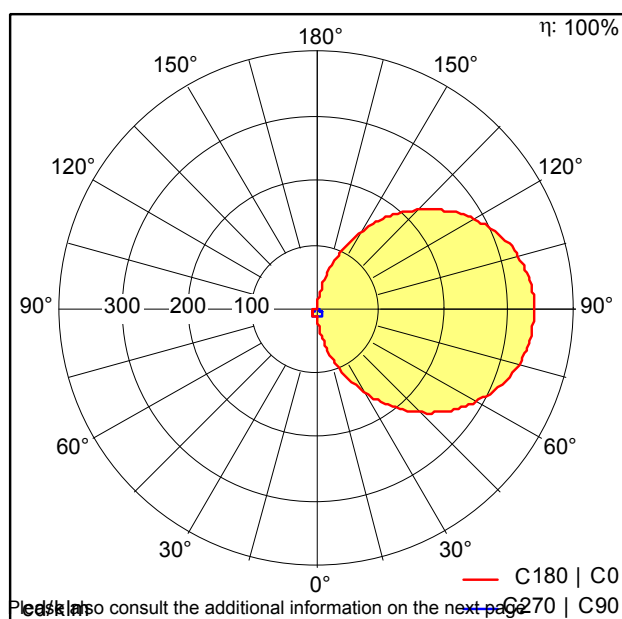
ZS_ONL_F_CRO_110_AB_RZ-U_ERI_WH.jpg



ZS_ONL_M_CROS_110_AB_LED_ERI_incl_Rx.wmf

Light Distribution

STD - standard



- Light Source: LED
- Luminaire luminous flux*: 62 lm
- Total emergency luminous flux: 88 lm
- Luminaire efficacy*: 9 lm/W
- Ballast: 1 x 89800524 DRV EM TR LBS P ST DA 5W 2
- Rated median useful life*: L90 50000h at 25°C
- Luminaire input power*: 6.6 W Power factor = 0.8
- Service life rating: 1 h

Please consult the additional information on the next page.

D31266AA_NE1_CROSSIGN_110_P_MSC_E1D_ERI_WH.Idt ,





Escape sign luminaire

LED Escape sign luminaire, Luminaire with local battery supply for 1 h emergency lighting in maintained or non-maintained mode, with automatic test (auto-test) via the luminaire, optional central monitoring via DALI, display of luminaire status via status LED; ; ; housing made of polycarbonate white (RAL 9016), injection moulded; addressing also alternatively possible visually or via EZ-addressing; luminaire easy to install; zero maintenance thanks to LED technology; 2 supplementary high power LEDs and asymmetric lenses adjustable through 360° for escape route lighting; uniform backlighting of pictogram; luminance > 500 cd/m² in the white region; Luminaire input power: 6.6 W; protection rating: IP42, class of protection: SC2; Impact strength: IK05; Non-maintained and maintained mode settable via jumper and NFC interface, Maintained mode: +5°C to +30°C, non-maintained mode: +5°C to +35°C; power supply: 220-240 V AC (+/- 10%), 50-60 Hz; dimensions of luminaire including escape sign: 232 x 46 x 176 mm; weight: 0.5 kg; Luminaire wired with halogen-free leads; Luminaire with D symbol (for use in environments in which no unusual accumulation of dust is expected); please order escape sign separately; Robust, integrated battery with 3-year warranty. Valid according to terms of the manufacturer's warranty, available at https://www.zumtobel.com/media/downloads/Garantiebedingungen_DE.pdf; Battery warranty invalid if installation takes place three (3) months after delivery EXW (Incoterms 2010)

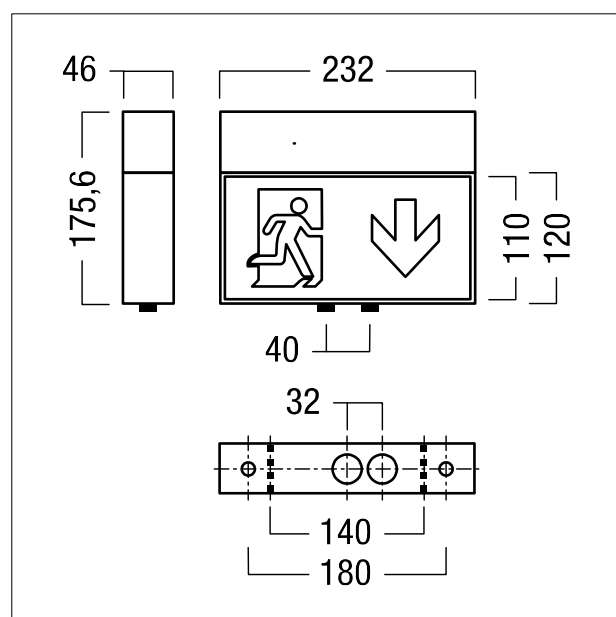
Attachment: CROSSIGN 110 SP2-E002-LR

22168608

Escape sign for CROSSIGN 110 MSC/TEC-GP, cover with escape sign made of white PC and digitally printed; escape sign according to ISO 7010: 2-sided; symbol: Emergency exit. Direction arrow sideways with Zumtobel Logo; Recognition distance according to EN 1838: 22 m; dimensions: 222 x 5 x 110 mm; weight: 0.19 kg.



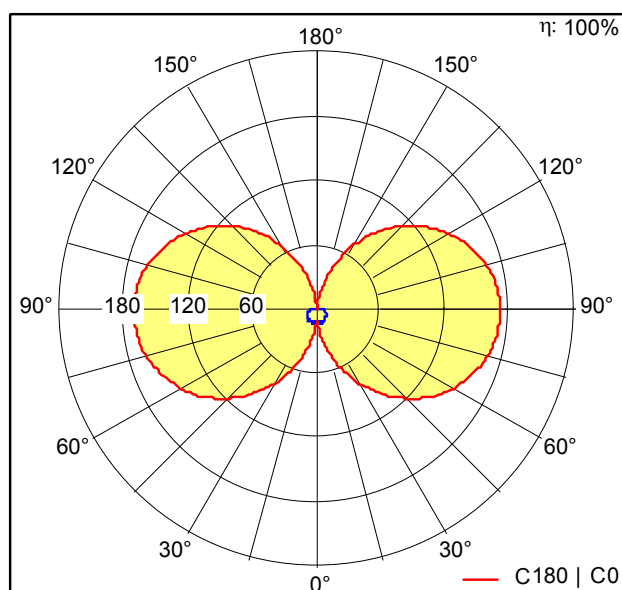
ZS_ONL_F_CRO_110_AB_RZ-R_ERI_WH.jpg



ZS_ONL_M_CROS_110_AB_LED_ERI_incl_Rx.wmf

Light Distribution

STD - standard



- Light Source: LED
- Luminaire luminous flux*: 77 lm
- Total emergency luminous flux: 89 lm
- Luminaire efficacy*: 12 lm/W
- Ballast: 1 x 89800524 DRV EM TR LBS P ST DA 5W 2
- Rated median useful life*: L90 50000h at 25°C
- Luminaire input power*: 6.6 W Power factor = 0.8
- Service life rating: 1 h

Please consult the additional information on the next page.

D31267AA_NE2_CROSSIGN_110_P_MSC_E1D_ERI_WH.Idt ,

Řízení osvětlení

LM-CIRIA BK

Multipurpose control unit

Art. no. 22162348

Multifunctional control unit for commissioning, configuring and operating installations via the LUXMATE bus; black glass and frame

Application

Clear and labelled symbols make it ultra-simple for any user to select the right scene for their activity. It is extremely easy and intuitive to control individual functions such as lighting, blinds, screen etc. all together or in groups. The LM-CIRIA can also be used to commission the system in individual rooms.

Design notes

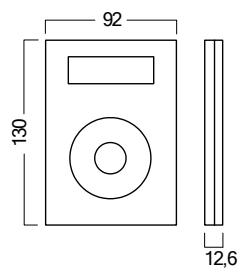
- For installation in a single Euro box to DIN 0606 of minimum depth 50mm.
- 230VAC and LM-bus
- If an LM-SG, LM-BG or LM-CG control unit is replaced with an LM-CIRIA control unit, metal plates are available for covering the double box: part no. 22185206 (metal finish) and 22185205 (white finish).



Functional description

- Easy to operate simply by touching the capacitive touchscreen on the glass front panel.
- Choice of up to 20 scenes.
- Individual control of up to 10 items of equipment.
- Dimming ring for infinite adjustment of the lighting level or other fine adjustments such as blinds slat angle.
- Central, illuminated ON/OFF button

Dimension



Label/connections



Technical data

Nominal voltage	230/240 V AC, 50/60 Hz
Permitted input voltage	230 ... 240 V AC, 50 ... 60 Hz
Power loss	< 1.5 W
Inputs	LUXMATE bus (B1, B2)
Bus loads	1 LUXMATE bus load (B1, B2)
Addressing	Room device: room address > 0; group address = 0 Group unit: room address > 0; group address > 0
Operation	ON-OFF button, 1 dimming wheel,
Display	OLED 256 x 64 pixels
Terminals	0,5-1,5 mm ²
Protection type	IP20
Protection class	Class II
Housing material	Glass front panel, halogen-free plastic housing
Case colour	black (similar to RAL 9005)
Installation	installed in single Euro box, dimensions as per DIN 0606 (Ø 60mm, minimum depth 50mm)
Dimensions	130 x 92 x 50 mm (upper section only)
Permissible ambient temperature ta	0 °C ... +50 °C
Weight	Approx. 0.3 kg

LITECOM CCD DALI-2

Central control unit light management

Art. no. 22171127

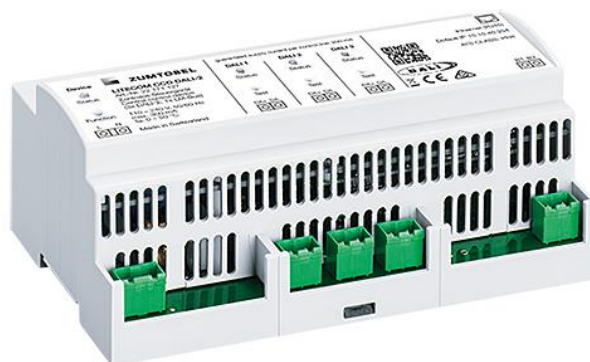
Control unit with 3 DALI-compliant outputs and an LM bus interface for controlling a maximum of 250 luminaires and motors.

Application

Typical applications are trade companies, office areas, law offices, modern medical practices, boutiques, sales spaces and exclusive residential buildings. Commissioning, configuration and operation of the LITECOM system is via a browser-capable device such as a tablet or laptop. The clear user interface guides the user through the different, well-organised levels. A context-based help supports with detailed information. Commissioning is made simpler and quicker with the use of mobile devices. This enables the control of DALI-compatible control gear, LM bus devices and special sensors and operating devices (ED devices). Connected control gear can be individually addressed and grouped.

Design notes

- A LITECOM system can be commissioned with any browser-compliant device.
- Google Chrome must be used as the browser.
- Various display devices (touch panels, tablets etc.) can be used for operating a LITECOM system.
- Using a touch panel for operation is not mandatory.
- A maximum of 250 actuators can be integrated.
- The LITECOM CCD DALI-2 is a central control unit for installation in a control cabinet with an Ethernet connection (TCP/IP).
- The three DALI lines are supplied and supply power for up to 100 bus loads (200mA).
- In addition, special sensors such as ED-Sens or ED-Eye, and special input units or control units such as ED-SxED or ED-Cxx can be connected to the DALI control lines.
- The LITECOM CCD DALI-2 is DALI-2 certified (DALI part 101/103/301/303/304).
- Third party DALI-2 certified input devices can be used if they have certified DALI parts 101 and 103 plus one or more of parts 301/303/304.
- The Luxmate bus is not supplied and requires its own bus supply (20975247 LM-BV or 22115026 LM-BV35) for use.



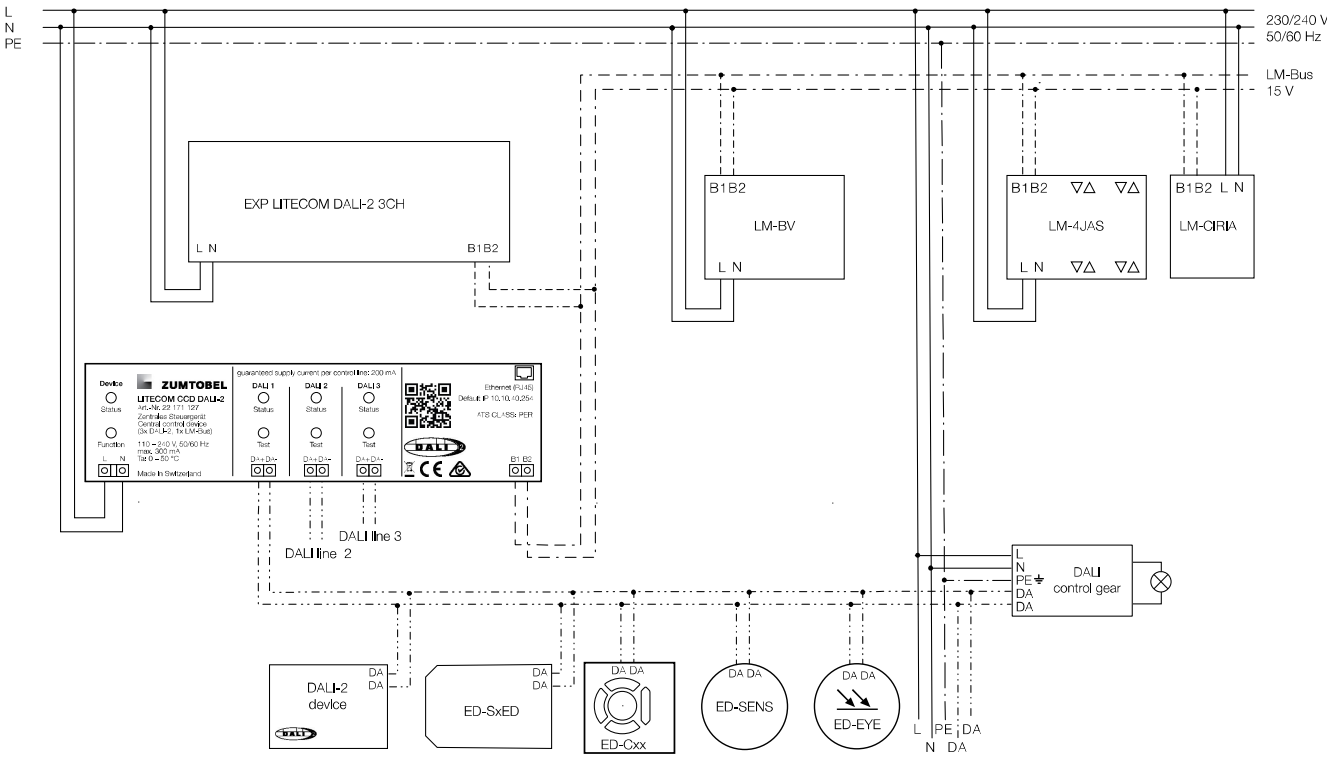
Functional description

With LITECOM CCD DALI-2, the lighting, blinds, screens and windows of a building or project can be controlled. Up to 250 actuators can be driven on one controller.

Basic functions:

- Switching and dimming, calling scenes, activating motor actuators (curtains, screens, windows)
 - Calling of preset light scenes
 - Defining and saving own light scenes
 - Configuration of functions at room or group level
 - Access to the system via web browser
 - Guided commissioning using a wizard
 - Facade protection, wind, rain and temperature alarms via relay contacts
 - Real-time error monitoring
- Supplementary functions are variously available as an APP:
- Daylight-dependent adjustment of artificial light
 - Time management (working hours, weekends, holidays and simple event control) via the calendar that can be configured in LITECOM.
 - Control according to presence or absence
 - Dynamic scenes (Shows, Motivation Cycle)
 - Creation of special luminaires (e.g. from 3 actuators; red, green, blue, defining a colour luminaire)
 - Monitoring and launching of functional test and service life test for emergency lighting (self-contained emergency luminaires)

Wiring scheme



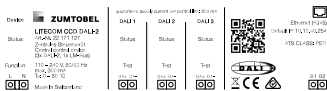
Mounting and installation instructions

- Installation: only in dry and clean surroundings, access only possible with tools; only in solid control cabinet or solid, closed distribution unit complying with standards for fire and touch protection
- Topology: Connect LITECOM CCD DALI-2 and display device (touch panel, computer) via Ethernet cable (topology A) or connect LITECOM CCD DALI-2 and display device (touch panel, computer, mobile terminal) via a wireless access point (topology B)
- Mains cable: must not be interrupted by control points
- Ethernet cable: at least CAT-5 cable, shielded
- Bus line and DALI control line: use standard installation material for low voltage systems (< 1 000 V); only tree, line and star formation cabling permitted
- Bus voltage supply: in the event of a continuous short-circuit, equipped with an automatic switch-off in accordance with EN 62386-101 with restart attempt every second for a duration of 200 ms
- Bus lines: can be interchanged
- DALI control cable

Technical data

Nominal voltage	110–240 V, 50–60 Hz
Permitted input voltage	100–260 V, 50–60 Hz
Power loss	max. 20 W
Outputs	3 DALI-compatible outputs (DALI 1–3) Per output: Maximum of 64 DALI-/DALI-2 addresses and 64 eD addresses guaranteed supply current 200 mA for maximum 100 DALI loads maximum supply current 250 mA
Connections	1 ethernet connection (ethernet): RJ45 plug Data transmission speed: 10/100 MBit/s
Interface	LM bus (B1, B2) (LM system limits depend on the LM bus supply used)
Terminals	0.5–2.5 mm ² (single-wire or fine wire)
Protection type	IP20
Protection class	SC2 (safety isolated) only with correctly installed terminal cover
Housing material	flame-resistant polycarbonate; halogen-free
Installation	On 35 mm top-hat rail according to EN 50022
Dimensions	160 x 91 x 62 (W x H x D, in mm) 9 HP à 17.8 mm
Permissible ambient temperature ta	0–50 °C, on horizontally mounted DIN rail, (e.g. in control cabinet)
Relative humidity	0–40 °C, on upright mounted DIN rail 20–90 %, non-capacitive
Weight	Approx. 0.6 kg

Label/connections



LM-BVS35

Bus power supply 35, control cabinet

Art. no. 22115026

Power supply of LUXMATE bus line with max. 35 LUXMATE devices

Application

For a smaller LUXMATE system or a bus domain with up to 35 LUXMATE devices, the smaller LM-BVS35 can be used as a bus power supply instead of the LM-BV.

Design notes

- The LM-BV product (art. no. 20 975 247) must be used for the supply of up to 100 LM devices.
- The LM-BVS35 replaces the LM-BVE bus power supply (art. no. 20 735 375).



Functional description

The LM-BVS35 bus power supply provides the LUXMATE bus with 15V DC and thus maintains the information flow in the LUXMATE system. The operation status, any short circuits and activities on the bus are signalled by two LEDs.

Wiring scheme



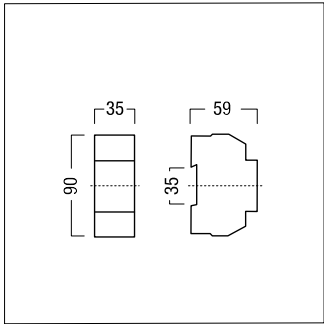
Mounting and installation instructions

- The bus power supply is installed in switch and distribution cabinets.
- Up to 35 LUXMATE devices can be connected to one LM-BVS35, where all box units, e.g. the LM-SDED, count as four modules. However, multiple modules like LM-3DSIS or LM-2JSMX count only as one module.

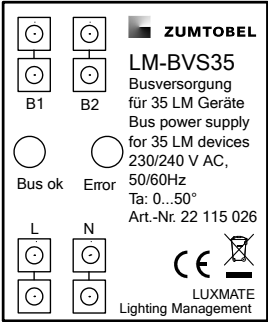
Technical data

Nominal voltage	230/240 V AC, 50/60 Hz
Permitted input voltage	100 ... 264 V AC, 50 ... 60 Hz
Power loss	< 2 W
Outputs	1 LM output (B1/B2) for max. 35 LM bus loads
Terminals	0.75 – 2.5 mm² (fine stranded with ferrules/single-wire)
Protection type	IP20
Protection class	Class II
Housing material	polycarbonate, halogen-free, flame retardant
Installation	On 35 mm top-hat rail according to EN 50022
Dimensions	2 units at 17,5 mm 35 x 90 x 59 mm
Permissible ambient temperature ta	0 °C ... +50 °C
Weight	Approx. 0.09 kg

Dimension



Label/connections



ED-SxED

Switch, switch-dim, switch-change I/P 4x

Art. no. 22176716

- switching, switch/dim and switch-changeover input with 4 independent inputs for running scenes and dimming conventional momentary action switches
 - Momentary action switch input for opening and closing windows using conventional (dual) momentary-action switches
 - Momentary action switch input for raising and lowering blinds or screens using conventional (dual) momentary-action switches

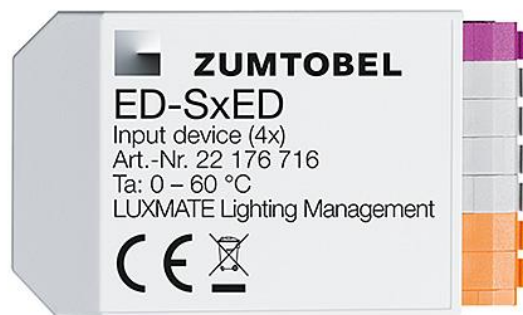
Application

The ED-SxED input modules can be used to integrate the following applications in the LUXMATE installation:

- As a switching input for running scenes using standard momentary-action light switches
- As a switch-dim input for running scenes and for dimming using standard momentary-action dimming switches
- As a window switch for opening and closing windows using standard dual momentary-action switches
- As a blinds/screen input for raising and lowering blinds and screens using standard momentary-action switches for blinds or standard dual momentary-action switches
- As a switch-changeover input for integrating switches, momentary-action switches, time switches or motion detectors with isolated contacts using the switch/changeover input

The relevant operating mode can be preselected using the rotary selector switch on the unit at the time of commissioning.

The configuration software is used to set the relevant operating mode for controlling blinds and windows.



Design notes

The unit is only intended for use in DIMLITE, LITECOM and LITECOM infinity, as well as on the netlink CCD.

It is compatible with the former EMOTION and LM-3DALIS devices.

Connect the input module directly to the DALI or Control-IN control line.

Switching contacts fitted with integral indicator lamp (not powered from external supply), RC-element and switching thyristors are not positively identified by the ED-SDED2 and must not be used.

The T1, T2, T3, T4 and COM lines for switch connection must not be mixed up.

The connection terminals can take leads with a cross-section of 0.5 to 1.5 mm².

The length of the connecting lines must not exceed 30cm. The connecting lines are not supplied with the product.

The bus input can withstand an external voltage of 230/240 V.

Power is supplied via the bus line.

The configuration software is used to set the relevant operating mode for controlling blinds and windows.

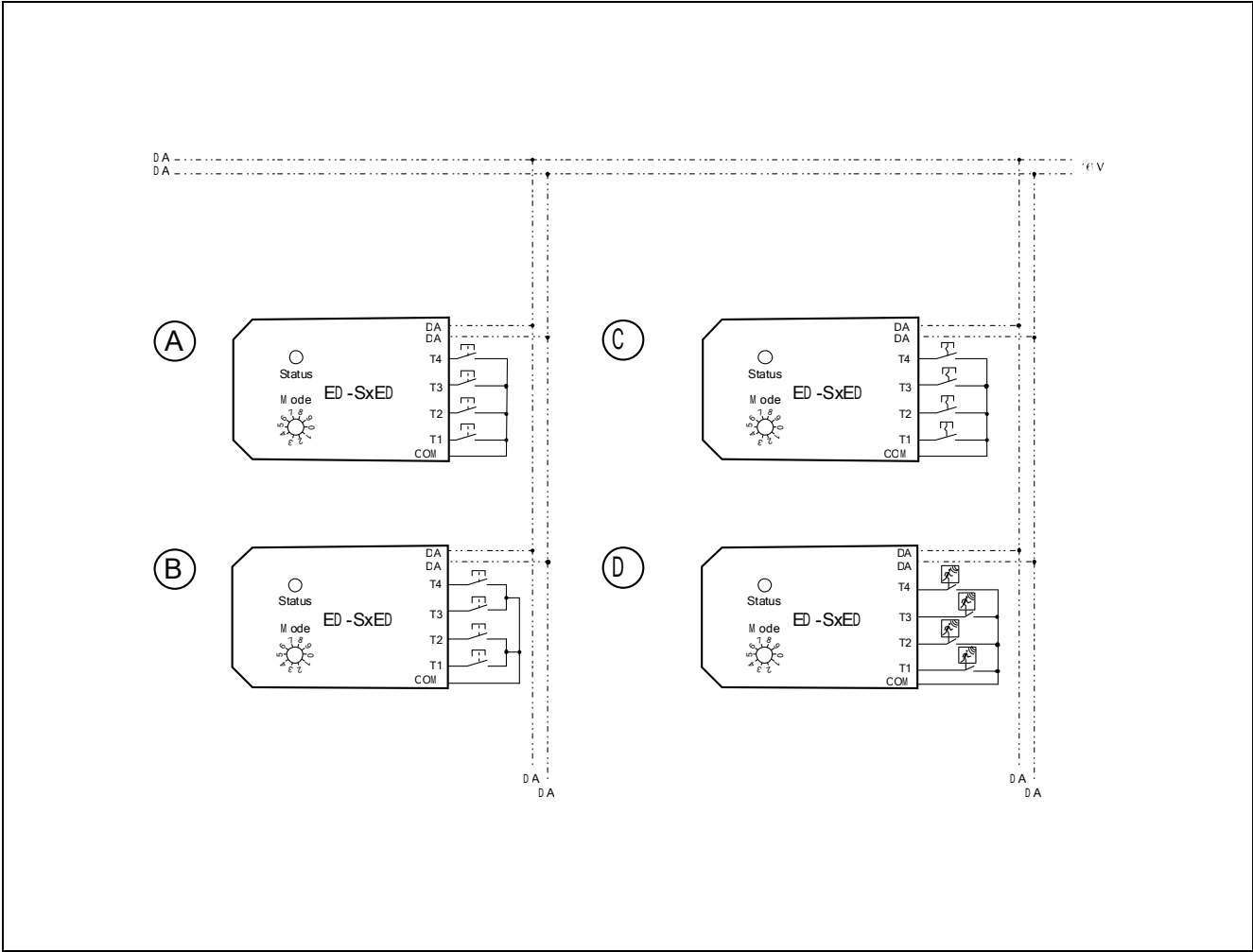
Current consumption 4 mA (2 DALI loads)

Functional description

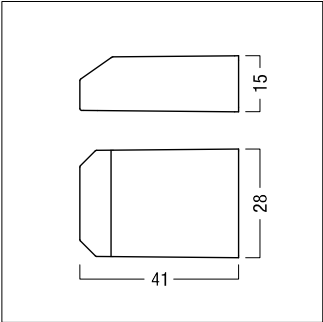
Depending on the addressing of an input, users can operate all the outputs in a room, or one output group in the room.

- Switching input:
scene change
- Switching-dimming input:
scene change and dimming in room
- Window input:
opening and closing the windows in a room
- Blinds and screen input:
raising/lowering the drapes/blinds in a room
- Switching-changeover input:
scene change by opening/closing

Wiring scheme




Dimension



Technical data

Power supply	via DALI control line (16V DC)
Current consumption	max. 4 mA
Bus loads	max. 2
Inputs	4 inputs (T1–T4)
Interface	DALI control line (DA, DA)
Terminals	0.5–1.5 mm² (single or stranded wire)
Protection type	IP20
Housing material	flame-resistant polycarbonate; halogen-free
Installation	in flush socket: 60 x 61 (Ø x T, in mm)
Dimensions	48 x 28 x 15 mm
Permissible ambient temperature ta	0–+60 °C
Relative humidity	20–90 %, non-capacitive
Weight	Approx. 0.012 kg

Label/connections

**ZUMTOBEL**

ED-SxED
Input device (4x)
Art.-Nr. 22 176 716
Ta: 0 – 60 °C

Made in EU 