

DOKUMENTACE PRO ÚZEMNÍ ŘÍZENÍ, STAVEBNÍ POVOLENÍ A PROVÁDĚNÍ STAVBY

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
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MÍSTO STAVBY: Kollárova 1669, 698 01 Veselí nad Moravou

KATASTRÁLNÍ ÚZEMÍ: Veselí - Předměstí

Parc.č.: 4723/18, 4723/61, 4722/59, 4722/61

ZADAVATEL A INVESTOR PROJEKTU

Obchodní akademie a Střední odborné učiliště Veselí nad Moravou

LOGO FIRMY



ODSOUHLASENO INVESTOREM

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TENTO VÝKRES JE AUTOROVÝM DUŠEVNÍM VLASTNICTVÍM A NESMÍ BÝT BEZ JEHO SVOLENÍ KOPIROVÁN NEBO ZPŘÍSTUPNĚN TŘETÍM OSOBÁM (ODVOLÁVÁME SE NA ZÁKON O AUTORSKÉM PRÁVU A PRÁVECH SOUVISEJÍCÍCH S AUTORSKÝM PRÁVEM).

AUTOR PROJEKTU: STAVEBNÍ FIRMA PLUS s.r.o., oddělení projekce

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Jiří Šetina, DiS.

HL.INŽ.PROJEKTU

Ing. Marek Hasoň

NÁZEV PROJEKTU:

Rekonstrukce učeben a výstavba nové haly pro OV

GENERÁLNÍ PROJEKTANT



Měšťanská 3992/109
695 01 Hodonín,
www.firmaplus.cz
tel: +420 518 120 022

PROJEKTANT SPECIALISTA:

PARDOSA - technik, s.r.o.

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LOGO FIRMY



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ZODPOVĚDNÝ PROJEKTANT:

Petr Winkler

PROFESE: D.1.4.5 Elektroinstalace

NÁZEV STAVEBNÍHO OBJEKTU: OBJEKT B

DATUM:
10.12.2021

MĚŘÍTKO:
-

OBSAH VÝKRESU:

KNIHA SVÍTIDEL

Č.ZAK.:

17-20-010

ČÍSLO VÝKRESU.:

D.1.4.5-05

LED 26W BET3_LO-840	IEC EN 60598-1 RG 0	IP20 IP44	IK03		CE					650 °C	T _a -20 +40	
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Beta 3

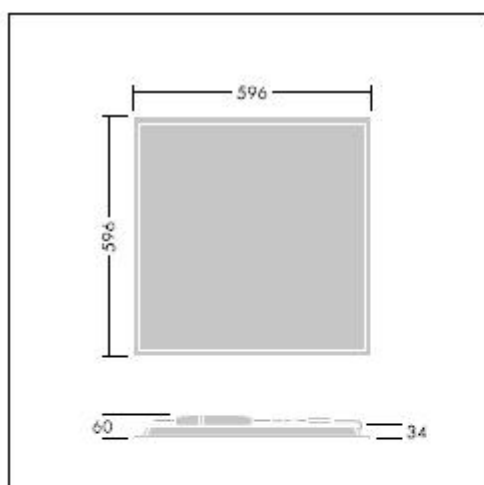
As square ceiling recessed LED luminaire. DALI dimmable LED driver. Class II electrical, IP44_IP20, Impact strength: IK03. Body: sheet steel, white (close to RAL9016). Diffuser: Opalised PMMA with micro-prismatic foil inlay. Supplied with safety wire. Complete with 4000K LED.

UGR < 19 and L65 < 3000 cd/m² as per EN 12464:2011

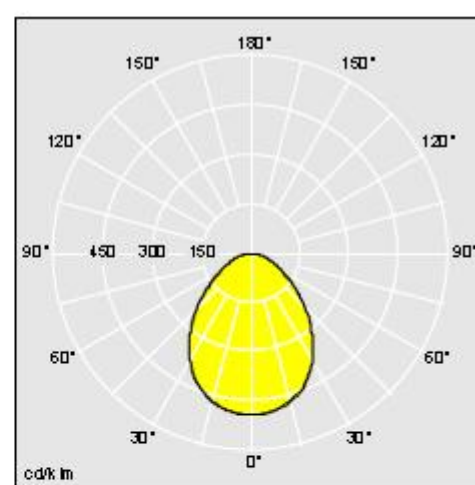
Dimensions: 596 x 596 x 34 mm
Luminaire input power: 26 W
Luminaire luminous flux: 3200 lm
Luminaire efficacy: 123 lm/W
Weight: 2.11 kg



TLG_B ET3_F_MRE2.jpg



TLG_B ET3_M_Q600.wmf



B ET3 11596 LO 4000K.kst

Lamp position: STD - standard
Light Source: LED
Luminaire luminous flux*: 3200 lm
Luminaire efficacy*: 123 lm/W
Lamp efficacy: 123 lm/W
Colour Rendering Index min.: 80
Ballast: 1 x 28000672 LCA 45W 500-1400mA one4all
SR PRE
LOR: 1,00 ULOR: 0,00 DLOR: 1,00

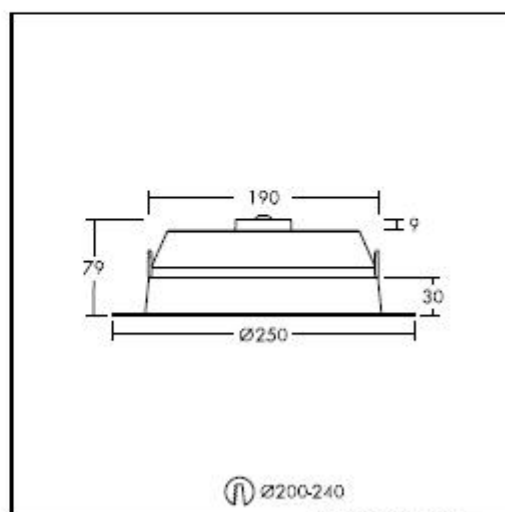
Correlated colour temperature: 4000 Kelvin
Chromaticity tolerance (initial MacAdam): 3
Rated median useful life*:
L80 50000h at 25°C
Luminaire input power*: 26 W Power factor = 0.98
Standby Power*: 0.15 W
Dimming: DaliDim
Maintenance category: D - Enclosed IP2X

Recessed LED downlight

Recessed LED downlight one for one replacement for traditional 2x26W compact fluorescent downlights. Consistent light output with no shadowing. High efficacy, up to 80% energy saving compared with fluorescent light sources. Ceiling cutout Ø 200-240mm - identical to traditional products. AMY VARIO LED can be installed into a wide range of ceiling types of 2-20mm thickness. THD <25%. Switchable colour temperature: choose between warm white (3000K) and neutral white (3500K) and cold white (4000K) to suit application use. Photobiological Risk Group RG0. LED driver suitable for use with leading and trailing-edge dimmer switches. Plug&Play with "Just Emergency E3 KIT" for 3h emergency operation. Bodysteel, white finish (RAL 9003) Diffuser: polycarbonate Weight: 0.6 kg



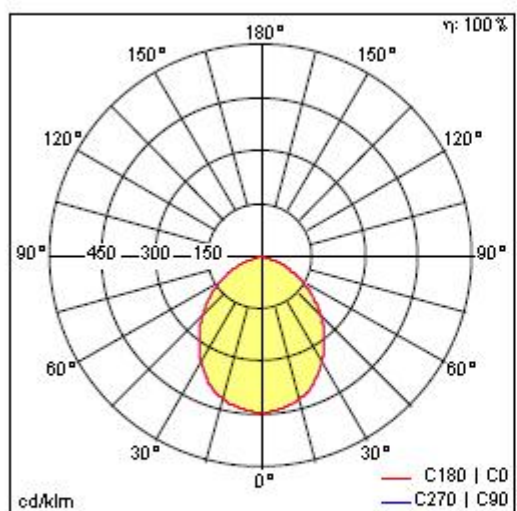
TE_AMYVARIO_F_200.jpg



TE_AMYVARIO_M_200.wmf

Light Distribution

STD - standard



AMY_VARIO_200_LED_DL_2000_840.kt

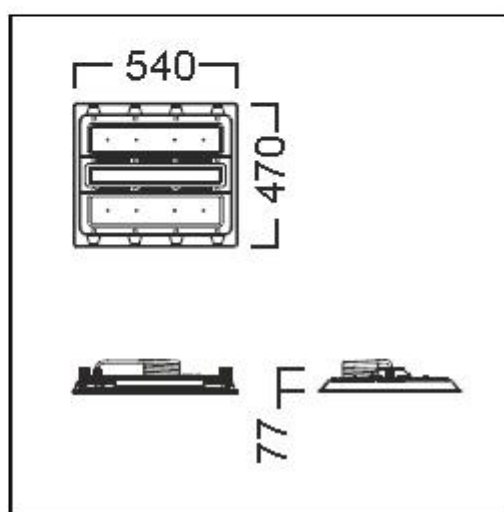
- Light Source: LED
- Luminaire luminous flux*: 2002 lm
- Luminaire efficacy*: 100 lm/W
- Colour Rendering Index min.: 80
- Correlated colour temperature: 3000-4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 5
- Rated median useful life*: L80 50000 h at 25°C
- Ballast: 1x LED_Con
- Luminaire input power*: 20 W Power factor = 0.9
- Dimming: PCDC dimmable to 10%
- Total harmonic distortion (THD): 25.00 %

LED high-bay luminaire

LED high-bay luminaire Luminaire input power: 62.2 W, including LED converter, Slave luminaire for DALI control (DALI only), housing made of extra-robust, deep-drawn sheet steel, powder coated in colour white.. LED service life lasts 100000 h before luminous flux is reduced to 85% of the initial value. At maximum ambient temperature, the LED service life is still at 100000 h to a reduction in luminous flux to 75% of the initial value due to the high quality of the LEDs.. Chromaticity tolerance (initial MacAdam): 2. Luminaire luminous flux: 9760 lm, Luminaire efficacy: 157 lm/W Colour rendering Ra > 80, colour temperature 4000 K glare-free lighting: UGR < 22 (EN 12464:2011). Sealed optical lens system. Lenses with diagonal dome structure for maximum efficiency Luminaire with symmetric very wide distribution (very wide beam). Pre-assembled 2m long 5 x 1 mm² connection cable for very high continuous temperatures (halogen-free, flame-retardant). Vibration resistant (EN 60598-1:2015 / IEC 60598-1:2017 Ed. 8.1). LED risk group RG0 (IEC/EN 62471), Luminaire wired with halogen-free and silicone-free leads. Note: please contact your consultant if you are planning to use in ambient atmospheres with chemical load, high or condensed air humidity or large temperature fluctuations. Protection class: SC1; degree of protection: IP66; ambient temperature: -10°C to +65°C; Dimensions: 540 x 470 x 77 mm. Weight: 4.9 kg.



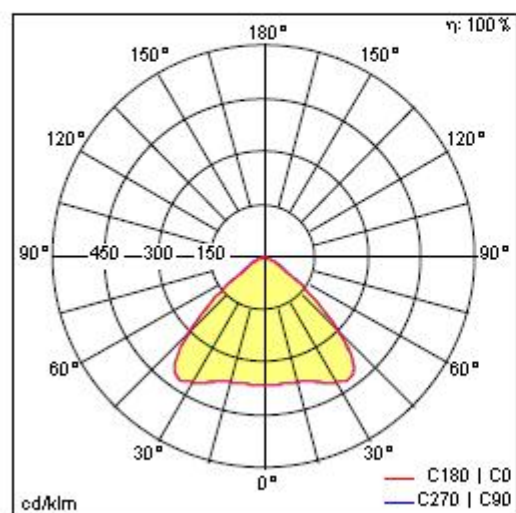
ZS_CR2_F_CRAFT2_performance_M_WH.jpg



ZS_CR2_M_CRAFT2_performance_M_WH.jpg

Light Distribution

STD - standard



D43086AA_CR2_M10K-840_P_M_WW8_LDO_WH.kdt

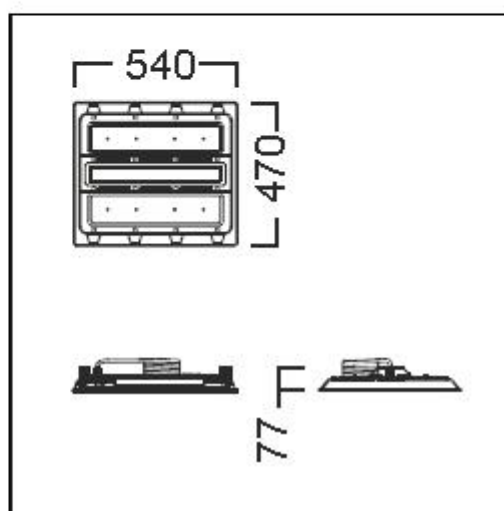
- Light Source: LED
- Luminaire luminous flux*: 9760 lm
- Luminaire efficacy*: 157 lm/W
- Colour Rendering Index min.: 80
- Ballast: 1 x 28003670 LCI 150/325-1050/300 o4a sl PREZ
- Correlated colour temperature: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 2
- Rated median useful life*: L85 100000h at 25°C
- Luminaire input power*: 62.2 W Power factor = 0.97
- Dimming: LDO dimmable to 1% over DALI
- Maintenance category: E - Dust-proof IP5X
- Total harmonic distortion (THD): 6.54 %

LED high-bay luminaire

LED high-bay luminaire Luminaire input power: 83.3 W, including LED converter, Slave luminaire for DALI control (DALI only), housing made of extra-robust, deep-drawn sheet steel, powder coated in colour white.. LED service life lasts 100000 h before luminous flux is reduced to 85% of the initial value. At maximum ambient temperature, the LED service life is still at 100000 h to a reduction in luminous flux to 75% of the initial value due to the high quality of the LEDs.. Chromaticity tolerance (initial MacAdam): 2. Luminaire luminous flux: 12840 lm, Luminaire efficacy: 154 lm/W Colour rendering Ra > 80, colour temperature 4000 K, glare-free lighting: UGR < 22 (EN 12464:2011). Sealed optical lens system. Lenses with diagonal dome structure for maximum efficiency Luminaire with symmetric wide light distribution (wide beam). Pre-assembled 2m long 5 x 1 mm² connection cable for very high continuous temperatures (halogen-free, flame-retardant). Vibration resistant (EN 60598-1:2015 / IEC 60598-1:2017 Ed. 8.1). LED risk group RG0 (IEC/EN 62471), Luminaire wired with halogen-free and silicone-free leads. Note: please contact your consultant if you are planning to use in ambient atmospheres with chemical load, high or condensed air humidity or large temperature fluctuations. Protection class: SC1; degree of protection: IP66; ambient temperature: -10 °C to +55 °C; Dimensions: 540 x 470 x 77 mm. Weight 4.9 kg.



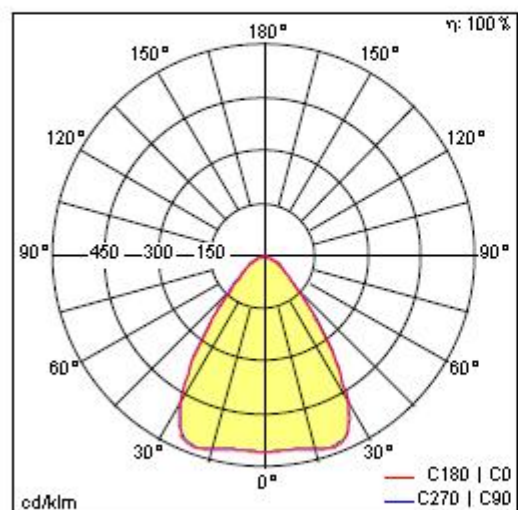
ZS_CR2_F_CRAFT2_performance_M_WH.jpg



ZS_CR2_M_CRAFT2_performance_M_WH.jpg

Light Distribution

STD - standard



D43087AA_CR2_M13K-840_PM_W08_LDO_WH.jpg

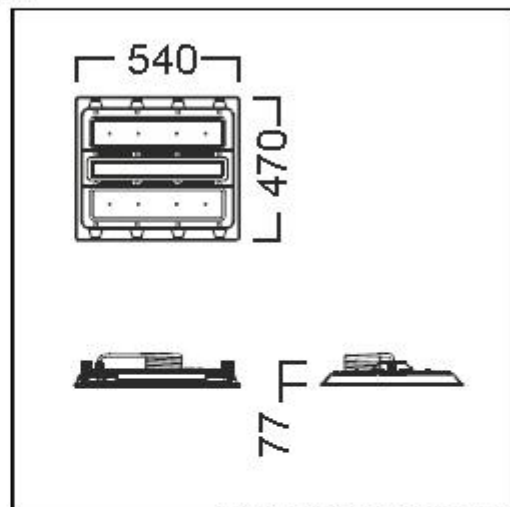
- Light Source: LED
- Luminaire luminous flux²: 12840 lm
- Luminaire efficacy²: 154 lm/W
- Colour Rendering Index min.: 80
- Ballast: 1 x 28003670 LCI 150/325-1050/300 o4a s1 PRE Z
- Correlated colour temperature: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 2
- Rated median useful life²: L85 100000h at 25°C
- Luminaire input power²: 83.3 W Power factor = 0.97
- Dimming: LDO dimmable to 1% over DALI
- Maintenance category: E - Dust-proof IP5X
- Total harmonic distortion (THD): 5.28 %

LED high-bay luminaire

LED high-bay luminaire Luminaire input power: 112 W, including LED converter, Slave luminaire for DALI control (DALI only), housing made of extra-robust, deep-drawn sheet steel, powder coated in colour white. LED service life lasts 100000 h before luminous flux is reduced to 85% of the initial value. At maximum ambient temperature, the LED service life is still at 100000 h to a reduction in luminous flux to 75% of the initial value due to the high quality of the LEDs. Chromaticity tolerance (initial MacAdam): 2. Luminaire luminous flux: 16380 lm, Luminaire efficacy: 146 lm/W, glare-free lighting: UGR < 25 (EN 12464:2011). Sealed optical lens system. Lenses with diagonal dome structure for maximum efficiency Luminaire with symmetric wide light distribution (wide beam). Pre-assembled 2m long 5 x 1 mm² connection cable for very high continuous temperatures (halogen-free, flame-retardant). Vibration resistant (EN 60598-1:2015 / IEC 60598-1:2017 Ed. 8.1). LED risk group RG0 (IEC/EN 62471). Luminaire wired with halogen-free and silicone-free leads. Note: please contact your consultant if you are planning to use in ambient atmospheres with chemical load, high or condensed air humidity or large temperature fluctuations. Protection class: SC1; degree of protection: IP66; ambient temperature: -10°C to +45°C; Dimensions: 540 x 470 x 77 mm. Weight 4.9 kg.



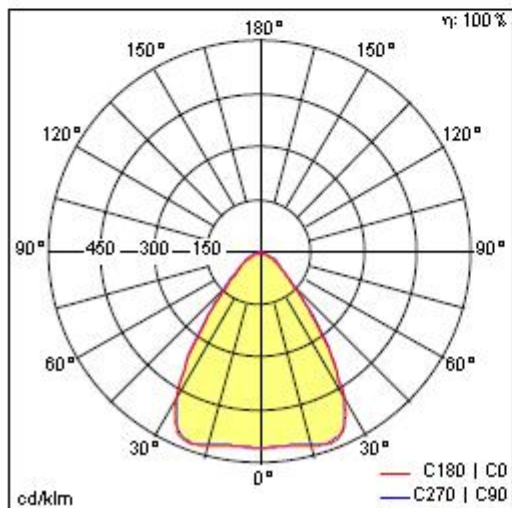
ZS_CR2_F_CRAFT2_performance_M_WH.jpg



ZS_CR2_M_CRAFT2_performance_M_WH.jpg

Light Distribution

STD - standard



D43087AA_CR2_M17k-840_PM_WB_LDO_WH.jpg

- Light Source: LED
- Luminaire luminous flux^a: 16380 lm
- Luminaire efficacy^a: 146 lm/W
- Colour Rendering Index min.: 80
- Ballast: 1 x 28003670 LCI 150/325-1050/300 o4a sl PREZ
- Correlated colour temperature: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 2
- Rated median useful life^a: L85 100000h at 25°C
- Luminaire input power^a: 112 W Power factor = 0.97
- Dimming: LDO dimmable to 1% over DALI
- Maintenance category: E - Dust-proof IP6X
- Total harmonic distortion (THD): 4.24 %

LED 16W PNC3_AS12-S40	IP20	IK04						850°C	T _a 0 +35	
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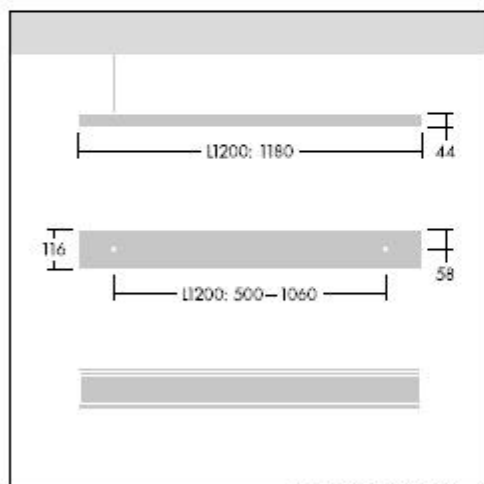
Punch

A slim, suspended luminaire with asymmetrical distribution. DALI dimmable LED driver. Body: sheet steel, powder coated white (close to RAL9016). Endcaps: sheet steel powder coated white (close to RAL9016). Louvre: glossy aluminium, double parabolic. Class I electrical, IP20, Impact strength: IK04. Electrical connection via pre-installed power cord. Complete with 4000K LED. Suspension kit included. Ceiling rose accessory has to be ordered separately.

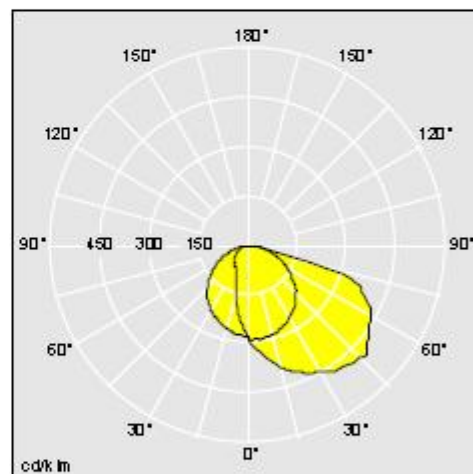
Dimensions: 1180 × 116 × 44 mm
Luminaire input power: 16 W
Luminaire luminous flux: 2149 lm
Luminaire efficacy: 134 lm/W
Weight: 3.5 kg



TLG_PNCH_F_ASYM.jpg



TLG_PNC3_M_LDASY.wmf



TL_PNC3ASYM-S40MSP1200.klt

Lamp position: STD - standard
Light Source: LED
Luminaire luminous flux²: 2149 lm
Luminaire efficacy²: 134 lm/W
Lamp efficacy: 134 lm/W
Colour Rendering Index min.: 80
Correlated colour temperature: 4000 Kelvin
LOR: 1,00 ULOR: 0,00 DLOR: 1,00

Chromaticity tolerance (initial MacAdam): 3
Rated median useful life²:
L80 50000h at 25°C
Ballast: 1x LED_D RV Tridonic
Luminaire input power²: 16 W Power factor = 0.95
Standby Power²: 0.4 W
Dimming: DALI Dim dimmable to 10%
Maintenance category: D - Enclosed IP2X

LED 50W Z_AQ6400-840 6520								850 °C
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Aquaforce Pro

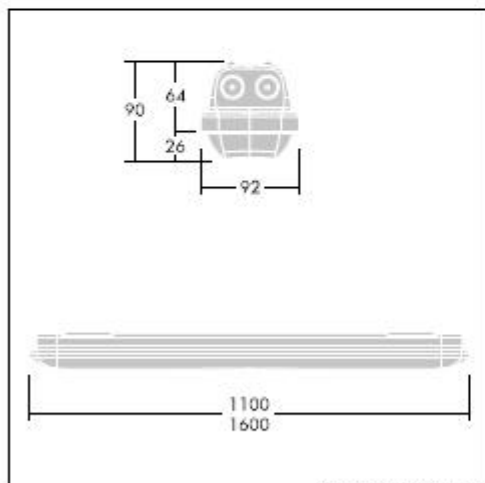
An IP66, dust and moisture resistant LED luminaire. DALI dimmable. With medium beam distribution. Class I electrical. Canopy: light grey polycarbonate. Diffuser: high transmission opal polycarbonate with refraction prisms. Patented snap-on mechanism EasyClick for dipless mounting of diffuser. For surface 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.

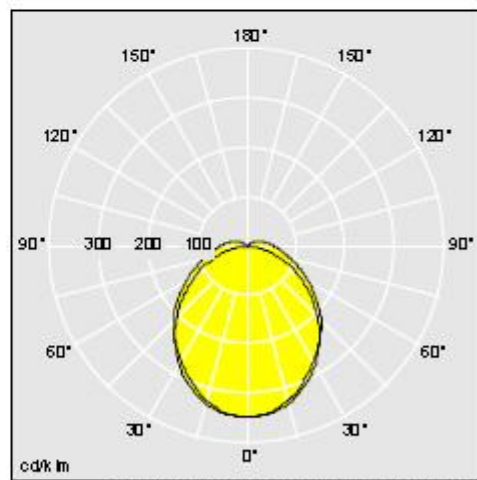
Dimensions: 1600 x 92 x 90 mm
Luminaire input power: 49.7 W
Luminaire luminous flux: 6520 lm
Luminaire efficacy: 131 lm/W
Weight: 2.1 kg



TLG_AQUP_F_PD8_1600MED.jpg



TLG_AQUP_M_LD1.MMt



D422T1AA_AQFPRO_L_LED6400-840_PC_M8_HFI.kdt

Lamp position: STD - standard
Light Source: LED
Luminaire luminous flux*: 6520 lm
Luminaire efficacy*: 131 lm/W
Lamp efficacy: 131 lm/W
Colour Rendering Index min.: 80
Ballast: 1 x 28000655 LCA 50W 100-400mA one4all Ip
PRE

Correlated colour temperature: 4000 Kelvin
Chromaticity tolerance (initial MacAdam): 3
Rated median useful life*:
L80 50000h at 25°C
Luminaire input power*: 49.7 W Power factor = 0.96
Dimming: HFI-X dimmable to 1%
Maintenance category: E - Dust-proof IP5X
LOR: 1,00 ULOR: 0,07 DLOR: 0,94

Bathroom Mirror LED luminaire

Bathroom mirror luminaire with an elegant and timeless design. Opal diffuser ensuring visual comfort and a fully homogeneous illumination. Tool-free wiring for quick installation. Integrated on/off switch.

Body: Aluminum, white finish (RAL9016)

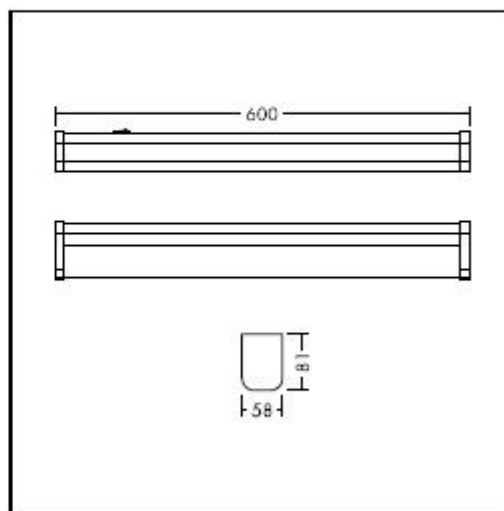
Diffuser: PC, opal

End cap: PC, white finish (RAL9016)

Weight: 0.8 kg



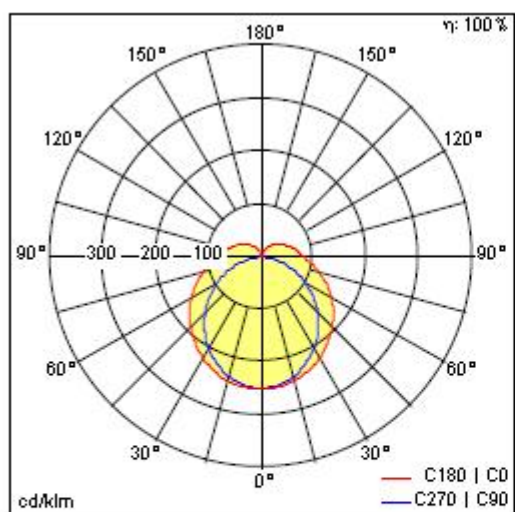
TE_ELSA_F_600_P_ERSP.jpg



TE_ELSA_M_600.wmf

Light Distribution

STD - standard



TE_ELSA_LED_600_1200_840_10W.kst

- Light Source: LED
- Luminaire luminous flux²: 1200 lm
- Luminaire efficacy²: 100 lm/W
- Colour Rendering Index min.: 80
- Correlated colour temperature: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 6
- Rated median useful life²: L70 50000h at 25 °C
- Ballast: 1x LED_Con
- Luminaire input power²: 12 W Power factor = 0.9
- Dimming: Fixed output
- Total harmonic distortion (THD): 18.00 %

LED 16W KATO_HO_84	CB			IP65		IK10		CE				850°C	T _a -15 +35	
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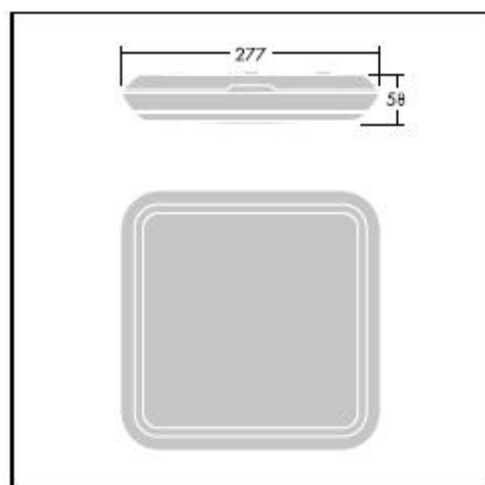
Katona

A very slim, square functional LED luminaire. Fixed output LED driver. Body: white polycarbonate. Diffuser: opal polycarbonate. Class II electrical, IP65, IK10. Complete with 4000K LED. Suitable for direct mounting to wall or ceiling. Loop-in, loop-out is possible for cables up to 2.5mm². BESA compatible.

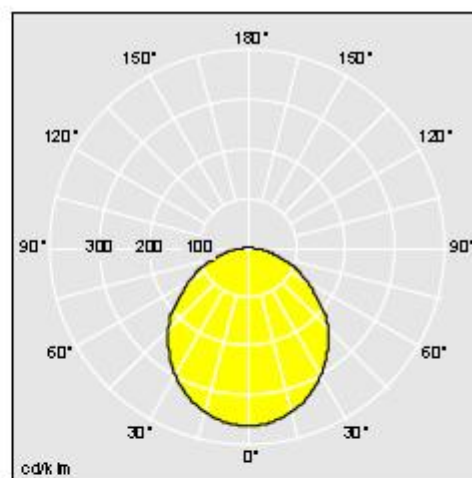
Dimensions: 277 x 277 x 58 mm
 Luminaire input power: 16.3 W
 Luminaire luminous flux: 1950 lm
 Luminaire efficacy: 120 lm/W
 Weight: 0.99 kg



TLG_KATO_F_SQ_P08.jpg



TLG_KATO_M_SQ_LDSmmr



TLG_SP_0043694.kdt

Lamp position: STD - standard
 Light Source: LED
 Luminaire luminous flux²: 1950 lm
 Luminaire efficacy²: 120 lm/W
 Lamp efficacy: 119 lm/W
 Colour Rendering Index min.: 80
 Ballast: 1 x 87500566 DRV TR LC 20W 500MA fbc C C
 SNC

Correlated colour temperature: 4000 Kelvin
 Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life²:
 L80 50000h at 35°C
 Luminaire input power²: 16.3 W Power factor = 0.91
 Dimming: FIX
 Maintenance category: E - Dust-proof IP5X
 LOR: 1,00 ULOR: 0,03 DLOR: 0,97



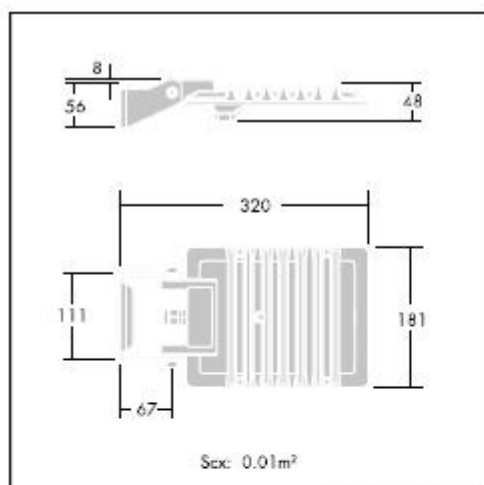
LED Fit

A simple, ultra lightweight, small LED area floodlight with true asymmetric optic. Integral fixed output control gear. Class I electrical, IP66, Impact strength: IK07. Body: die-cast aluminium. Light grey 150 sanded textured (close to RAL9006). Stirrup: aluminium. Visor: polycarbonate with external surface powder coated Light grey 150 sanded textured (close to RAL9006). Pre-wired with 0.6m cable. Stirrup can be fixed by one M10 and/or two M8 fixation points, it is reversible allowing different mounting positions. Complete with 4000K LED.

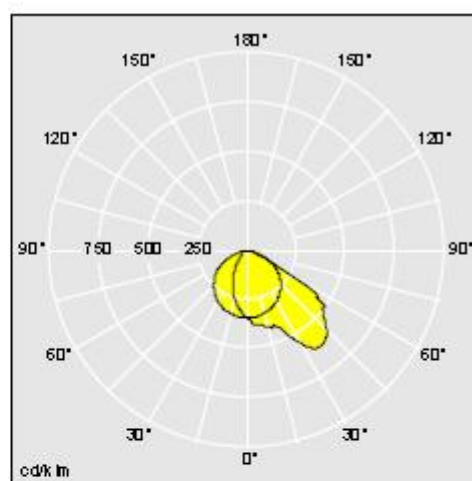
Dimensions: 181 x 236 x 48 mm
 Luminaire input power: 45 W
 Luminaire luminous flux: 4500 lm
 Luminaire efficacy: 100 lm/W
 weight: 1.7 kg



TLG_LED_F_SPD8.jpg



TLG_LED_F_M_45Wmm1



TLLA_LFITS45WAS4K_DC.klt

Lamp position: STD - standard
 Light Source: LED
 Luminaire luminous flux²: 4500 lm
 Luminaire efficacy²: 100 lm/W
 Lamp efficacy: 100 lm/W
 Colour Rendering Index min.: 80
 LOR: 1,00 ULOR: 0,00 DLOR: 1,00

Ballast: 1 x 89602623 QLE AC G1 170x144mm
 5300lm 840 AD V THO
 Correlated colour temperature: 4000 Kelvin
 Chromaticity tolerance (initial MacAdam): 7
 Rated median useful life²:
 L70 50000h at 25°C
 Luminaire input power²: 45 W Power factor = 0.94
 Dimming: F.O

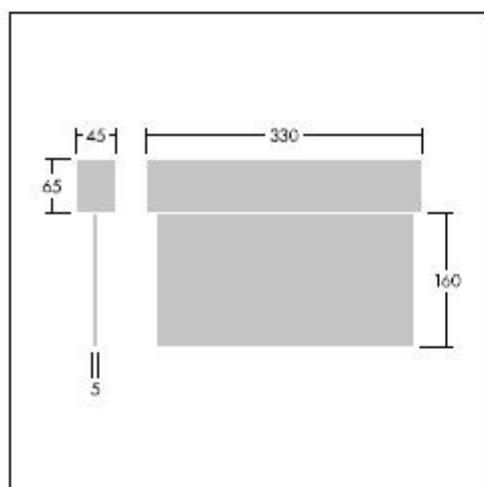
IP40	IK03			T _a 5 40
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Voyager Blade 2

LED Escape sign luminaire for surface, wall or ceiling mounting; Self contained luminaire with duration selectable via toggle switch for 1, 2, 3, 8 hours, non-maintained and maintained mode settable via toggle switch. With automatic test (auto-test) via the luminaire, display of luminaire status via status LED; housing made of polycarbonate white (RAL 9016), injection moulded; luminaire easy to install; Quick fit terminal block, through wiring possible up to 2,5 mm²; supplied with a set of ISO 7010 mountable direction signs (left, right, up, down and blank) for viewing from a maximum distance of 30 m; zero maintenance thanks to LED technology; service life of 50,000 h at constant luminous flux; uniform backlighting of pictogram; luminance > 500 cd/m² in the white region. Power supply: 220/240 V AC; Luminaire input power: 6.1 W; degree of protection: IP40, class of protection: Class II electrical; Impact strength: IK03; ambient temperature: 5°C to +40°C dimensions of luminaire including escape sign: Dimensions: 330 x 45 x 225 mm; weight: 0.9 kg



TLG_VO82_F_HSURL.jpg



TLG_VO82_M_HSURL.wmf

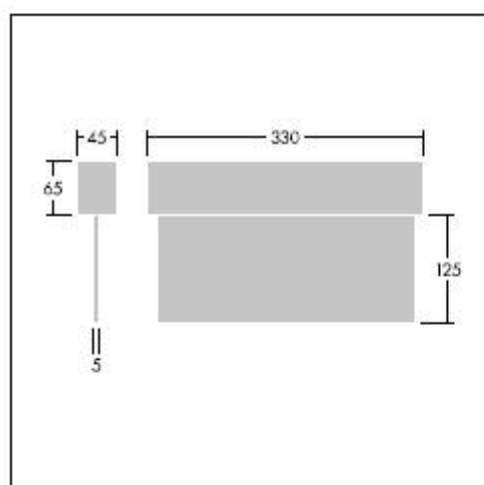
IP40	IK03			T _a 5 40
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Voyager Blade 2

LED Escape sign luminaire for surface, wall or ceiling mounting; Self contained luminaire with duration selectable via toggle switch for 1, 2, 3, 8 hours, non-maintained and maintained mode settable via toggle switch. With automatic test (auto-test) via the luminaire, display of luminaire status via status LED; housing made of polycarbonate white (RAL 9016), injection moulded; luminaire easy to install; Quick fit terminal block, through wiring possible up to 2,5 mm²; supplied with a set of ISO 7010 mountable direction signs (left, right, up, down and blank) for viewing from a maximum distance of 23 m; zero maintenance thanks to LED technology; service life of 50,000 h at constant luminous flux; uniform backlighting of pictogram; luminance > 500 cd/m² in the white region. Power supply: 220/240 V AC; Luminaire input power: 6.1 W; degree of protection: IP40, class of protection: Class II electrical; Impact strength: IK03; ambient temperature: 5°C to +40°C dimensions of luminaire including escape sign: Dimensions: 330 x 45 x 190 mm; weight: 0.8 kg



TLG_VO82_F_HSURS.jpg



TLG_VO82_M_HSURS.wmf



Voyager Fit

Self contained, surface mounted, non maintained, emergency lighting luminaire with 3 hour, SelfTest, emergency lighting circuit,. Housing: white (close to RAL9016) polycarbonate. Suitable for ceiling surface mounting. Class II electrical, IP20, IK07. Housing 53mm high for side and back cable entry. Complete with 6500K LED.

Interchangeable optics for anti-panic, escape route and spot applications included.

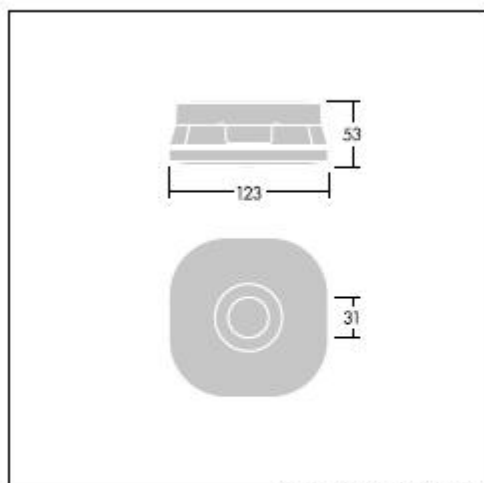
Dimensions: 123 x 123 x 53 mm
Weight: 0.3 kg

Self-contained emergency luminaires rely on long-lasting batteries. Voyager Fits high-tech lithium iron phosphate battery is robust and comes with a three-year guarantee (applicable subject to the terms and conditions of and to the extent as set forth in the manufacturer's guarantee on Thorn products, which shall be applicable analogously and which is available under http://www.thornlighting.com/en/products/5-year-guarantee/5-year-warranty/terms-of-guarantee_en.pdf. The battery guarantee shall not come into effect if the product has been installed later than three (3) months after delivery EXW (Incoterms 2010).

Equipped with:
Optics: transparent polycarbonate lens for anti-panic emergency lighting. Set of three lenses supplied with the luminaire.

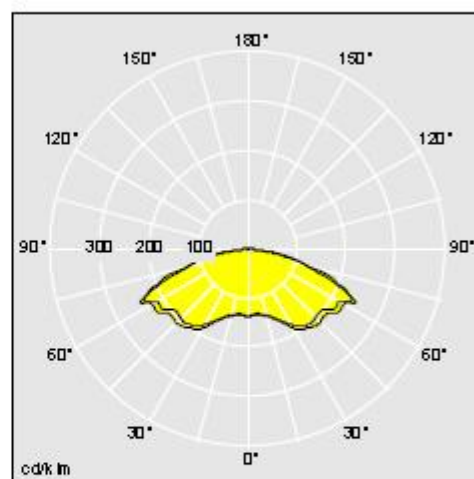


TLG_VOYF_F_MSC_UWH.jpg



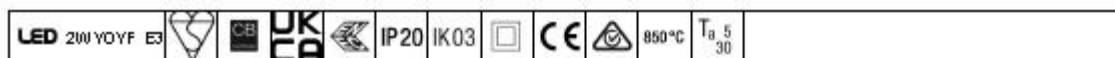
TLG_VOYF_M_MSC_NMM.mxd

Lamp position: ANT (open area optic)
Light Source: LED
Luminaire luminous flux²: 200 lm
Colour Rendering Index min.: 80
Correlated colour temperature: 6500 Kelvin



TLG_SP_0042856.kst

Chromaticity tolerance (initial MacAdam): 3
Rated median useful life²:
L90 50000h at 30°C
Standby Power²: 0.6 W
Charging power: 2.5 W
LBP: 1.00 W LBP: 0.02 W LBP: 0.00



Voyager Fit

Self contained, ceiling recessed, emergency lighting luminaire with 3 hour, SelfTest, emergency lighting circuit, non-maintained. Housing: white (close to RAL9016) polycarbonate. Battery strap: red rubber incorporating cable. Suitable for mounting into ceiling thicknesses from 1 to 25mm. Class II electrical, IP20, IK03. Ceiling cut-out Ø40mm, void 80mm minimum. Pre-wired with 250mm, low smoke, halogen free 0.75mm² stranded cable with prepared ends. Complete with 6500K LED.

Interchangeable optics for anti-panic, escape route and spot applications included.

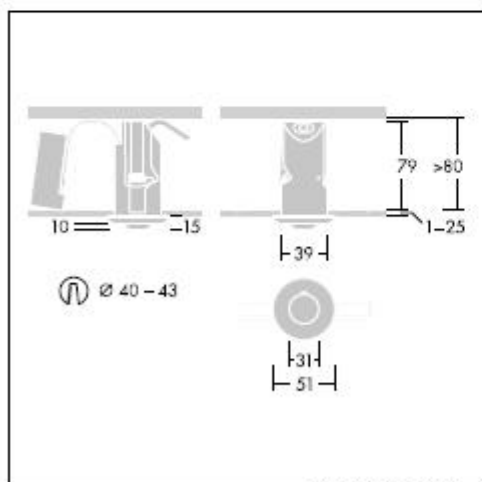
Dimensions: Ø51 x 94 mm
Weight: 0.23 kg

Self-contained emergency luminaires rely on long-lasting batteries. Voyager Fits high-tech lithium iron phosphate battery is robust and comes with a three-year guarantee (applicable subject to the terms and conditions of and to the extent as set forth in the manufacturer's guarantee on Thorn products, which shall be applicable analogously and which is available under http://www.thornlighting.com/en/products/5-year-guarantee/5-year-warranty/terms-of-guarantee_en.pdf. The battery guarantee shall not come into effect if the product has been installed later than three (3) months after delivery EXW (Incoterms 2010).

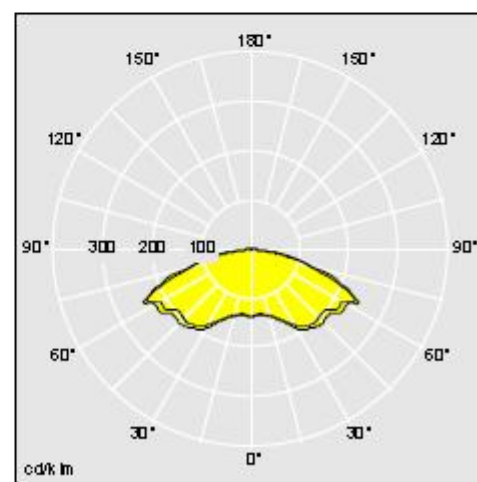
Equipped with:
Optics: transparent polycarbonate lens for anti-panic emergency lighting. Set of three lenses supplied with the luminaire.



TLG_VOYF_F_SET.jpg



TLG_VOYF_M_LD1.wmf



TLG_SP_0042856.kst

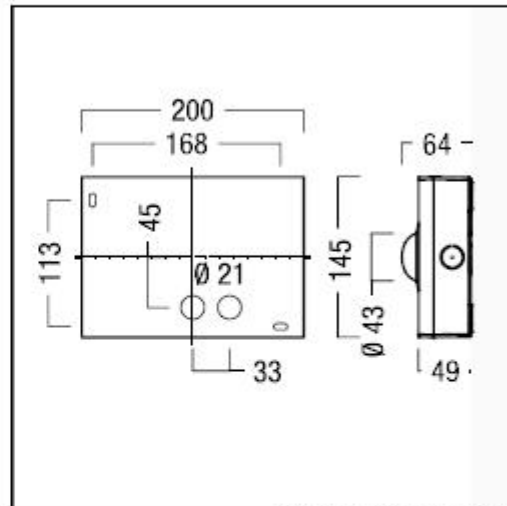
Lamp position: ANT (open area optic)
Light Source: LED
Luminaire luminous flux¹: 200 lm
Colour Rendering Index min.: 80
Power²: 2 W
Standby Power³: 0.6 W

Correlated colour temperature: 6500 Kelvin
Chromaticity tolerance (initial MacAdam): 3
Rated median useful life⁴:
L90 50000h at 30°C
Standby Power³: 0.6 W

LED emergency luminaire for wall-mounted escape route lighting with min. 1 lux compliant to EN 1838; Room height 2.2 to 8 m; 2 high power LEDs, neutral white 4,000 K; lens of polycarbonate; optimum thermal management via heat sink; wall surface-mounted luminaire; Screw mounting of the gear tray and IP65 cover; Luminaire housing made of diecast aluminium, powder-coated; housing colour white (close to RAL9016); White fibre-glass reinforced PC cover with transparent PC light outlet; 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 mode: +5°C to +30°C, non-maintained mode: +5°C to +35°C; power supply: 220-240 V AC (+/- 10%), 50-60 Hz; Luminaire input power: 4.7 W (with battery fast-charge in maintained mode); typical power (without battery charge): 3.5 W in maintained mode / 1.1 W in non-maintained mode; Non-maintained and maintained mode settable via jumper and NFC interface; IP65; SC1; Luminaire wired with halogen-free leads. Supply line not halogen-free, ballproof; Plug-in terminals for through-wiring up to 2.5 mm²; Impact strength: IK04; Dimensions: 200 x 145 x 64 mm; weight 0.95 kg; Luminaire with D symbol (for use in environments in which the accumulation of conductive dust on the luminaire can be expected)



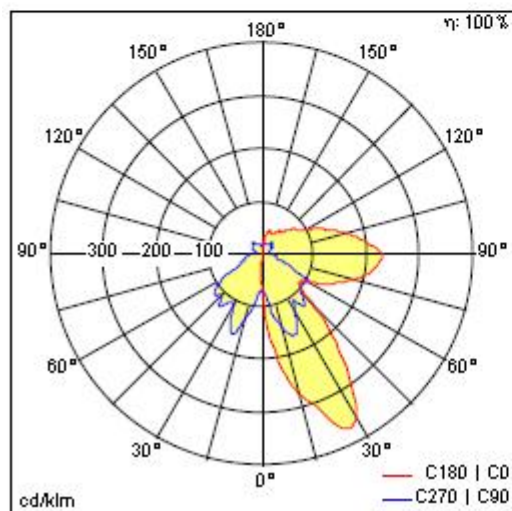
ZS_RES_F_PRO_MSM_IP65_E1D_ESCM_WWH.jpg



ZS_RES_M_PRO_MSM_IP65.WMH.T

Light Distribution

STD - standard



D39866AA_RESCLITE_PRO_MSM_ESCM_E1D_WWH_IP65.XJT

- Light Source: LED
- Luminaire luminous flux^a: 204 lm
- Total emergency luminous flux: 204 lm
- Luminaire efficacy^a: 43 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^a: L95 100000h at 25°C
- Luminaire input power^a: 4.7 W Power factor = 0.7
- Standby Power^a: 1.2 W
- Charging power: 1.25 W
- Service life rating: 1 h