

KNIHA SVÍTIDEL

ELEKTROINSTALACE

Akce: Denní stacionář, Hřbitovní 12

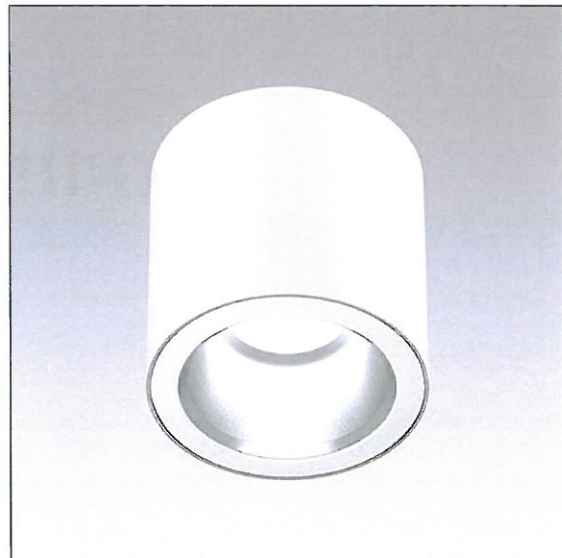
STUPEŇ
HIP
ZODPOVĚDNÝ PROJEKTANT
VYPRACOVAL
INVESTOR

DSP
ING. ARCH. JAN PODEŠVA
ING. TOMÁŠ NOVOTNÝ
BC. MATÚŠ KRAJČI
MĚSTO ŠLAPANICE

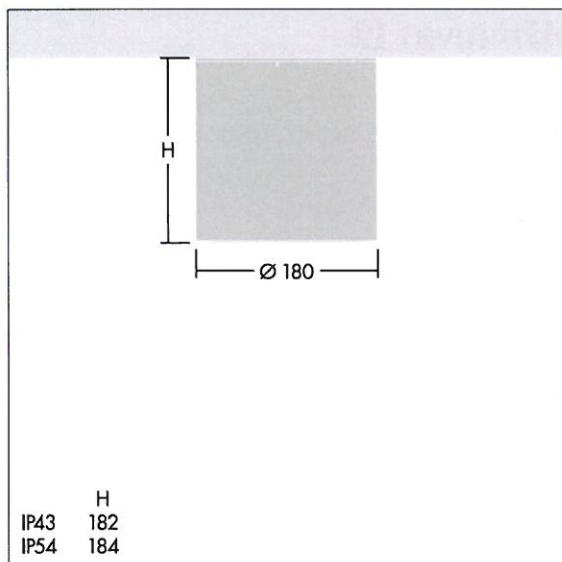
Svítidlo typ 1

Vysoce účinné a úsporné, přisazené LED svítidlo typu downlight. Pevný výstup LED předřadník s funkcí DC, nastavitelné v rozsahu 50-100%, konfigurovatelné NFC. Těleso: tlakově odlévaný hliník. Difuzor: polykarbonát, hladký reflektor v matné povrchové úpravě s širokým paprskem. Obruba: vysoce kvalitní, vysoce reflexní polykarbonát. Elektrická Třída ochrany I, IP43. Montážní desku je třeba nainstalovat přímo na strop, pro montáž prostřednictvím skříňky nebo lankového závěsu pomocí příslušenství, které je k dispozici. Elektrické připojení prostřednictvím zasunovací svorkovnice s 3/5 póly, Těleso se instaluje na montážní desku pomocí bajonetového mechanismu s pootočením a zajištěním. Dodáváno s LED zdroji v barvě 4000K

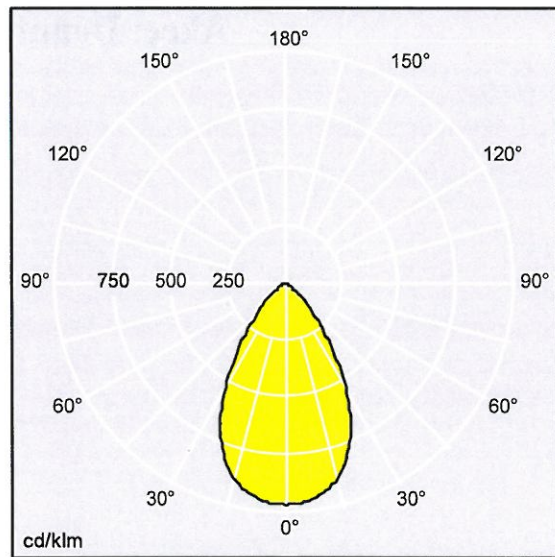
Rozměry: Ø180 x 182 mm
 Příkon svítidla: 16,5 W
 Světelný tok: 2040 lm
 Světelný výkon svítidel: 124 lm/W
 Hmotnost: 2,67 kg



TLG_CHAL3_F_180MSF_RSB.jpg



TLG_CHAL3_M_MS180.wmf



TLG_CHAL3_MS180_2000-840_EHF_RSB.ltd

Poloha světelného zdroje: STD – standard
 Světelný zdroj: LED
 Světelný tok*: 2040 lm
 Světelný výkon svítidel*: 124 lm/W
 Index podání barev - CRI min.: 80
 Předřadník: 1 x 87501027 LC 28/300-700/42 flexC NF SC EXC3
 Eta: 1,00 Eta horní: 0,00 Eta dolní: 1,00

Teplota chromatičnosti*: 4000 Kelvin
 Barevná tolerance v místě (MacAdam): 3
 Střední dimenzovaná životnost*:
 L90 50000h při 25°C
 Příkon svítidla*: 16,5 W Výkonový faktor = 0,77
 Řízení: FIX
 Kategorie údržby CIE 97: C - Reflektor nahoře uzavřený

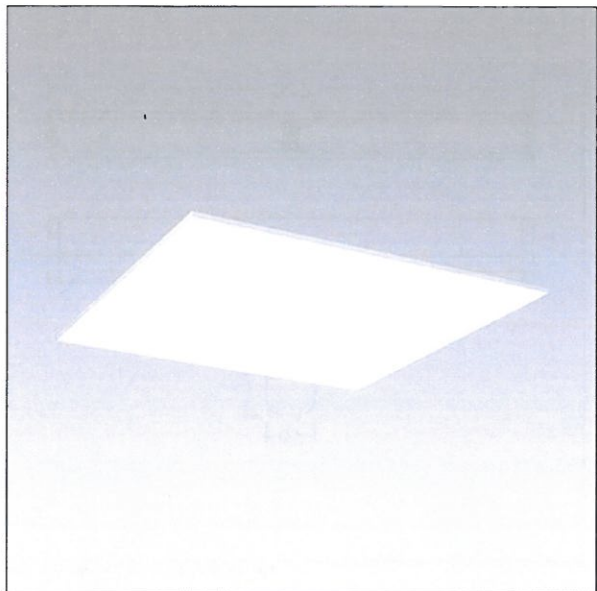
Tento výrobek obsahuje světelný zdroj s třídou energetické účinnosti B.

Hodnoty označené * představují stanovené rozměrové hodnoty. Thorn používá ověřené a testované díly od předních dodavatelů, avšak v průběhu jmenovité životnosti výrobku může dojít k ojedinělým případům poruch jednotlivých LED souvisejících s technologií. Mezinárodní normy stanoví tolerance počátečního toku a připojeného zatížení na ±10%, Pokud není uvedeno jinak, platí hodnoty pro okolní teplotu 25°C.

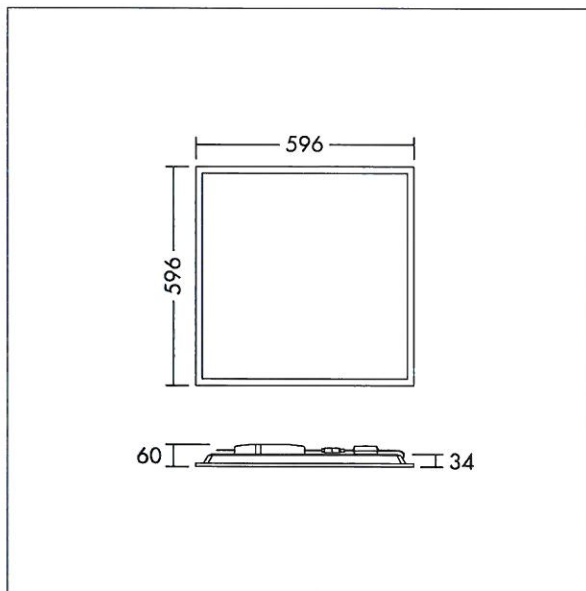
Produkty ThornLighting podléhají neustálému vývoji. Veškeré informace uvedené v tomto katalogovém listu mají pouze informativní charakter. Vyhrazuje si právo provádět technické nebo formální změny našich produktů bez dalšího zveřejnění. ©ThornLighting

Svítlidlo typ 2

LED Panel with homogenous light emitting surface and FLEX technology, UGR <19 for schools and offices. Total luminous flux: 4400 lm, Luminaire input power: 40 W, Lamp efficacy: 110 lm/W, Colour rendering Ra > 80, colour temperature 3000/3500/4000 K adjustable via switch. Lifetime: 50.000h L80, Chromaticity tolerance (initial MacAdam): 4. Included connector for easy and tool-free loop-in loop-out wiring, Flicker free, compatible with Plug&Play Emergency kit for 3 hour emergency conversion. Suitable for lay-in installation. Surface or recessed mounting box as well a suspension kit available as accessory. Input power adjustable on site by 4 step (F. - 4400 lm (40W), - 4000 lm (35W), - 3750 lm (33W), - 3000 lm (22W)). For flex data on other colour temperatures please visit website. Dimensions: 596 x 596 x 60 mm, weight: 1.86 kg.



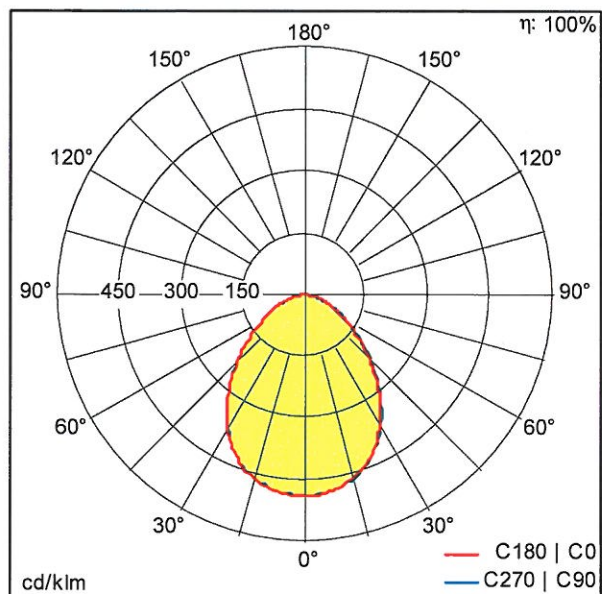
TE_ANNAVARIO_F_600_persp.jpg



TE_ANNAVARIO_M_596.wmf

Light Distribution

STD - standard



TE_ANNA_VARIOFLEX_Q596_4400_840_FLEX1.dtt

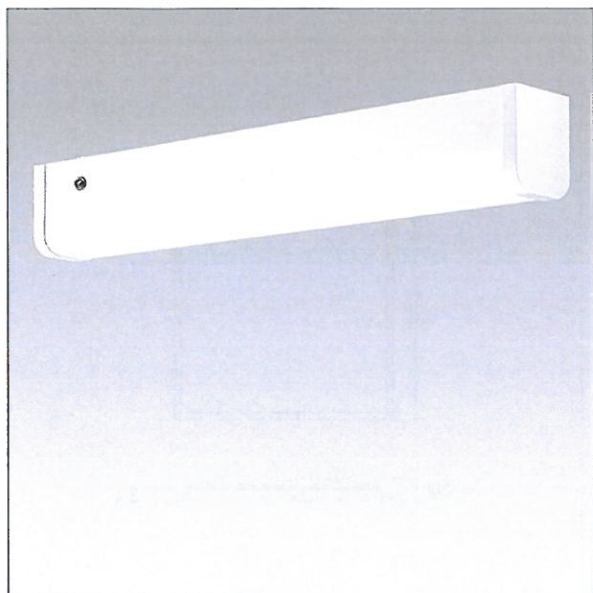
- Light Source: LED
- Luminaire luminous flux*: 4404 lm
- Total emergency luminous flux: 433 lm
- Luminaire efficacy*: 110 lm/W
- Colour Rendering Index min.: 80
- Ballast: 1 x 42189788, 12X3 4400 830/35/40
- Correlated colour temperature*: 3000-4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 4
- Rated median useful life*: L80 50000h at 25°C
- Luminaire input power*: 40 W Power factor = 0.95
- Dimming: Fixed output
- Total harmonic distortion (THD): 20.00 %

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

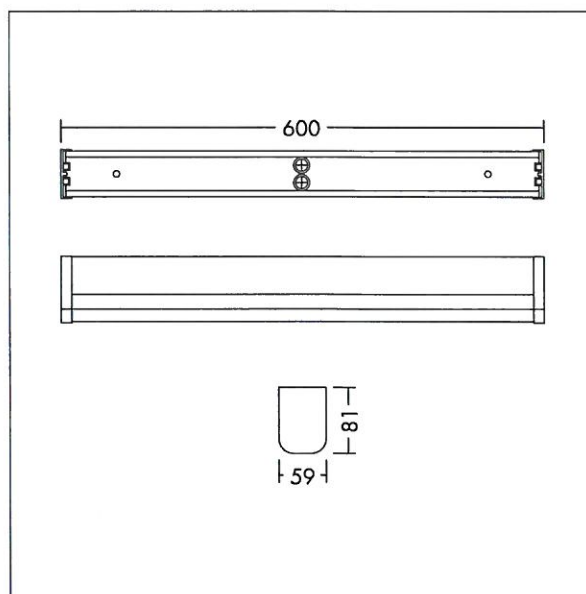
All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

Svítidlo typ 3

LED Bathroom mirror luminaire, IP44, with opal diffuser for homogenous lighting and Vario Flex technology. Colour Rendition > 90 for best lighting quality. Total luminous flux: 1200 lm. Luminaire input power: 12 W. Luminaire efficacy: 100 lm/W. Colour rendering Ra > 90, colour temperature 3000/3500/4000 K, adjustable via switch. Lifetime: 50.000hrs @L70. Chromaticity tolerance (initial MacAdam): 4. Impact strength: IK08. Vario Flex technology allows to adjust the input power on site by 2 steps (1200 lm (12W), 900 lm (9W)). For flex data on other colour temperatures please visit website. Dimensions: 600 x 59 x 81 mm, weight: 0.8 kg.



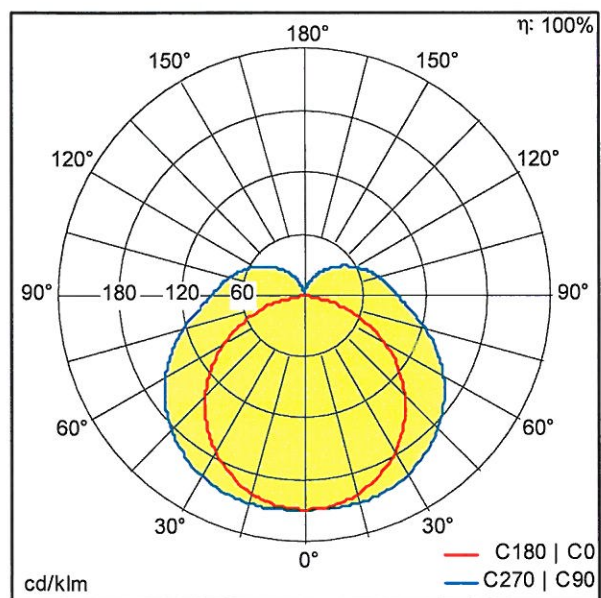
TE_ELSAVARIOFLEX_F_600_PERSP.jpg



TE_ELSAVARIOFLEX_M_600.wmf

Light Distribution

STD - standard



TE_ELSA_VARIOFLEX_600_1200_940_FLEX1.ltd

- Light Source: LED
- Luminaire luminous flux*: 1200 lm
- Luminaire efficacy*: 100 lm/W
- Colour Rendering Index min.: 90
- Correlated colour temperature*: 3000-4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 4
- Rated median useful life*:
L70 50000h at 25°C
- Ballast: 1x LED_Con
- Luminaire input power*: 12 W Power factor = 0.9
- Dimming: Fixed output
- Total harmonic distortion (THD): 20.00 %

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

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.

Svítidlo typ 4

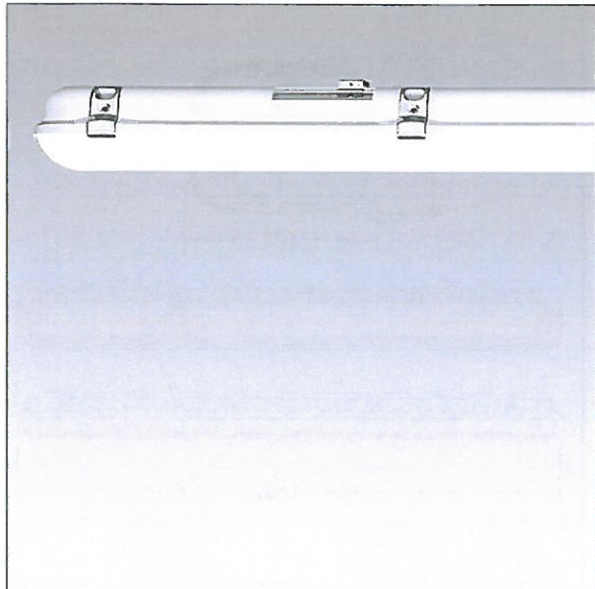
An IP65 rated LED luminaire for high quality low energy lighting in wet, dusty environments. High quality opal polycarbonate (UV stabilised) diffuser ensures uniform lighting without visible spots. High efficacy, up to 50% energy saving compared with T8 fluorescent. The traditional design gives an aesthetically pleasing appearance – ideal for point for point replacement on refurbishment projects.

Body: polycarbonate

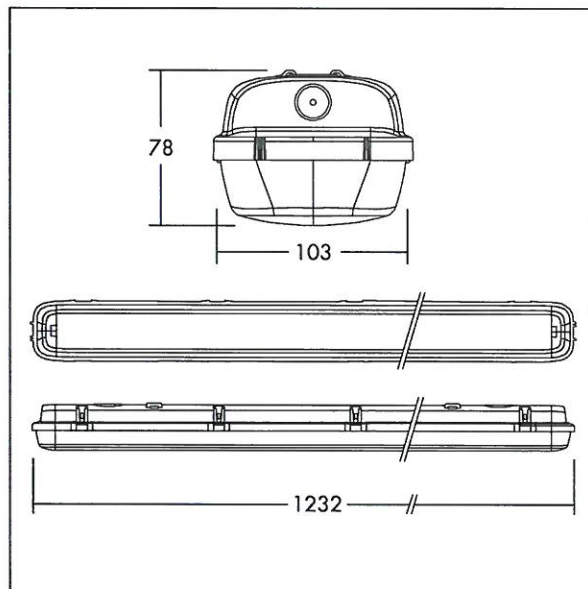
Diffuser: opal polycarbonate (UV stabilised)

Brackets: stainless steel

Weight: 1.5 kg



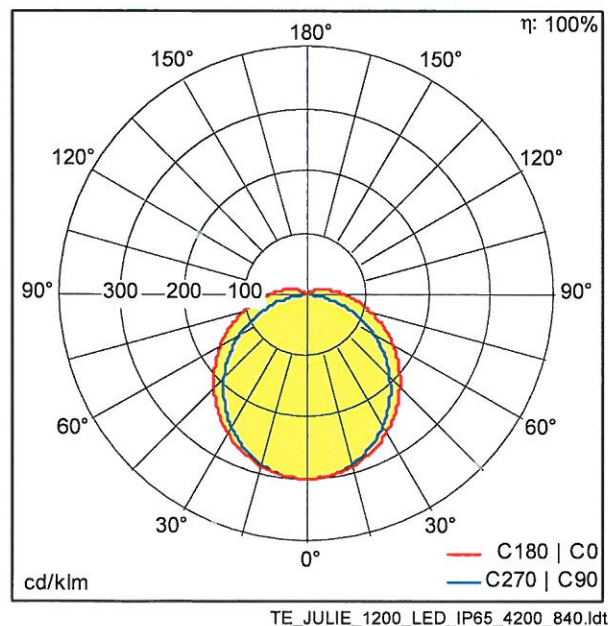
TE_JULIE_F_side.jpg



TE_JULIE_M_IILD2_1200.wmf

Light Distribution

STD - standard



TE_JULIE_1200_LED_IP65_4200_840.idt

- Light Source: LED
- Luminaire luminous flux*: 4200 lm
- Luminaire efficacy*: 111 lm/W
- Colour Rendering Index min.: 80
- Correlated colour temperature*: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 4
- Rated median useful life*: L70 50000h at 25°C
- Ballast: 1x LED_Con
- Luminaire input power*: 38 W Power factor = 0.9
- Dimming: Fixed output
- Total harmonic distortion (THD): 15.00 %

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.

Svítidlo typ 5

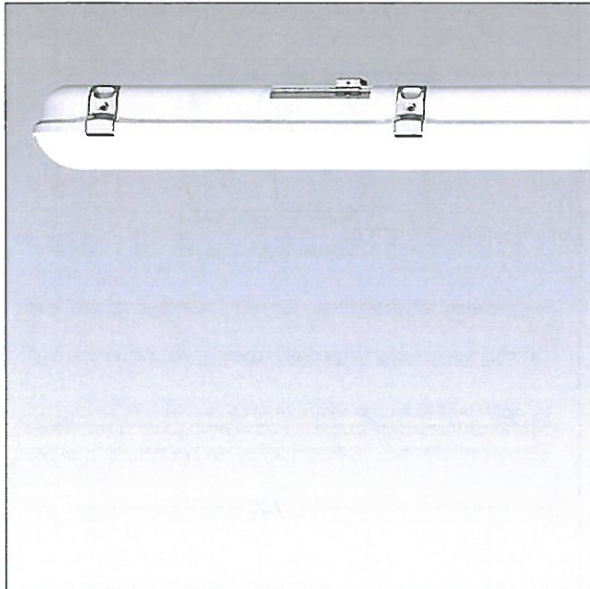
An IP65 rated LED luminaire for high quality low energy lighting in wet, dusty environments. High quality opal polycarbonate (UV stabilised) diffuser ensures uniform lighting without visible spots. High efficacy, up to 60% energy saving compared with T8 fluorescent. The traditional design gives an aesthetically pleasing appearance – ideal for point for point replacement on refurbishment projects.

Body: polycarbonate

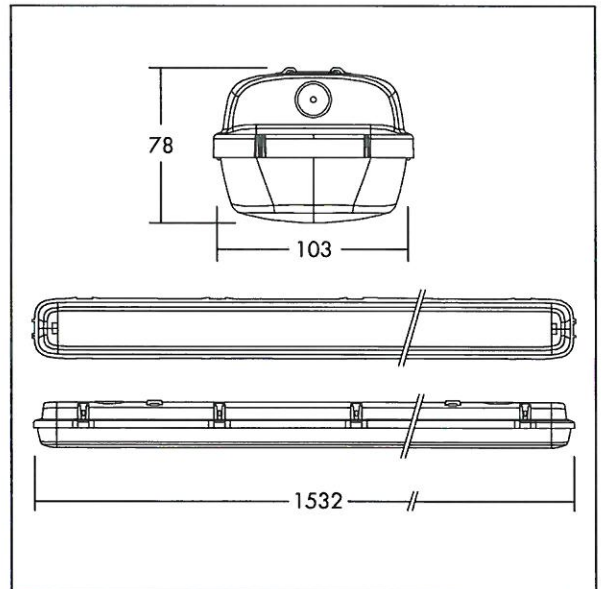
Diffuser: opal polycarbonate (UV stabilised)

Brackets: stainless steel

Weight: 1.95 kg



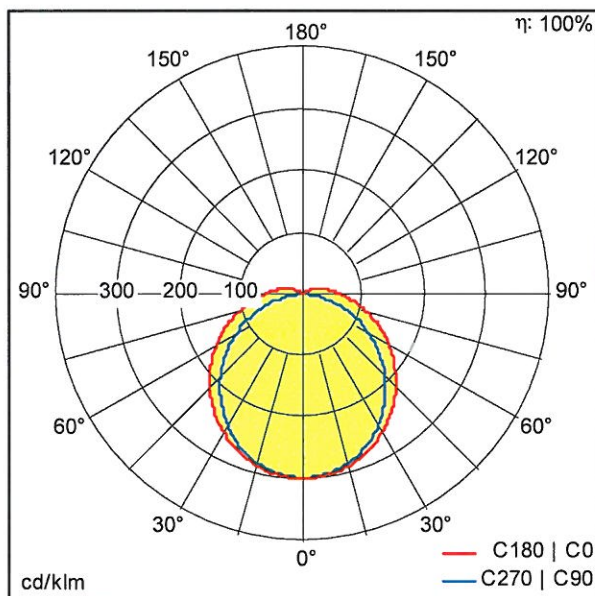
TE_JULIE_F_side.jpg



TE_JULIE_M_IILD2_1500_6000lm.wmf

Light Distribution

STD - standard



TE_JULIE_1500_LED_IP65_6300_840.ltd

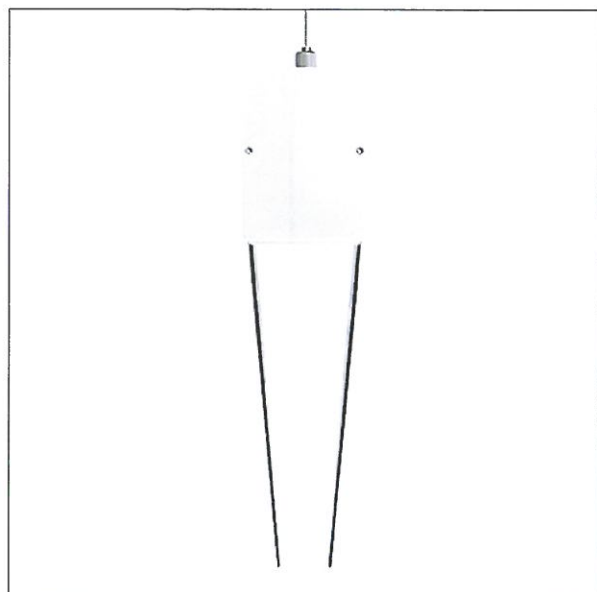
- Light Source: LED
- Luminaire luminous flux*: 6300 lm
- Luminaire efficacy*: 115 lm/W
- Colour Rendering Index min.: 80
- Correlated colour temperature*: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 4
- Rated median useful life*: L70 50000h at 25°C
- Ballast: 1x LED_Con
- Luminaire input power*: 55 W Power factor = 0.9
- Dimming: Fixed output
- Total harmonic distortion (THD): 15.00 %

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

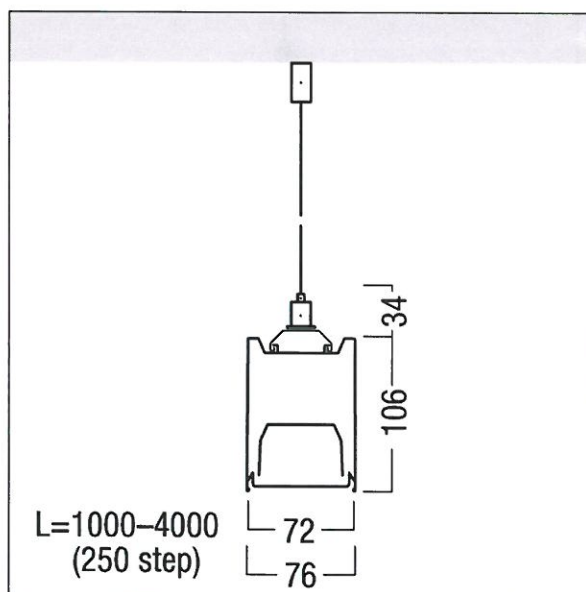
All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

Svítidlo typ 6

ECO Channel for LED light line DI with LED converter, DALI controllable luminaire for pendant mounting; LED service life lasts 50000 h before luminous flux is reduced to 90% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire luminous flux: 11430 lm, Luminaire efficacy: 117 lm/W. Colour rendering $R_a > 80$, colour temperature 4000 K; channel of aluminium in white powder coated. Includes end cap set. Luminaire wired with halogen-free leads. Dimensions: 2505 x 76 x 109 mm weight: 6.6 kg. SLOIN consists of a channel, LED batten, cover and accessories, which must be configured and ordered separately. This product is one part of the complete configuration.



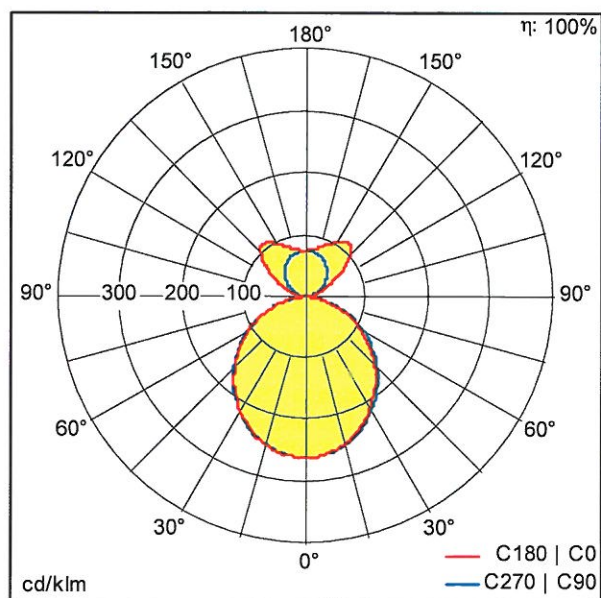
ZS_SLI_F_Einzelleuchte_D-ID_WH.jpg



ZS_SLI_M_Pendel_ID.wmf

Light Distribution

840 PC - diffuse



D42958_u_D42960_o_SLOIN_DI_LED840_L2500_PC_WH.Idt

- Light Source: LED
- Luminaire luminous flux*: 11430 lm
- Luminaire efficacy*: 117 lm/W
- Colour Rendering Index min.: 80
- Ballast 1: 1 x 28000655 LCA 50W 100-400mA one4all
lp PRE
- Ballast 2: 2 x 28000657 LCA 75W 100-400mA one4all
lp PRE
- Correlated colour temperature*: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 3
- Rated median useful life*:
L90 50000h at 25°C
- Luminaire input power*: 98 W Power factor = 0.95
- Standby Power*: 0.6 W
- Dimming: LDE dimmable to 1%
over DALI, DSI and switchDIM
DC level is adjustable
- Maintenance category: D - Enclosed IP2X

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

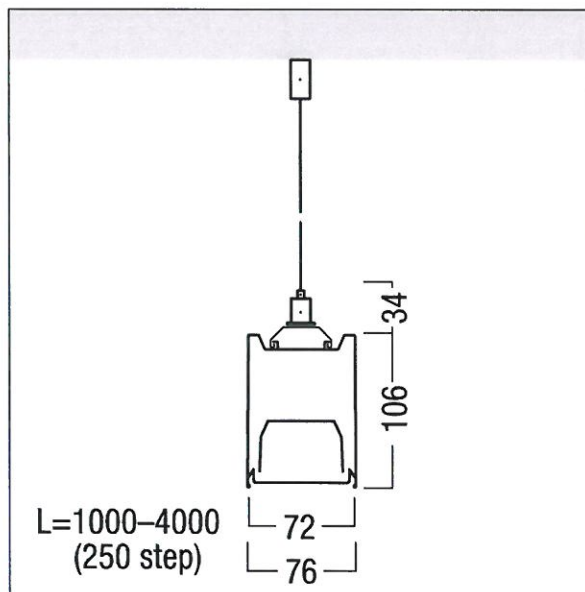
All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

Svítidlo typ 7

ECO Channel for LED light line DI with LED converter, DALI controllable luminaire for pendant mounting; LED service life lasts 50000 h before luminous flux is reduced to 90% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire luminous flux: 8060 lm, Luminaire efficacy: 117 lm/W. Colour rendering Ra > 80, colour temperature 4000 K; channel of aluminium in white powder coated. Includes end cap set. Luminaire wired with halogen-free leads. Dimensions: 1755 x 76 x 109 mm weight: 4.8 kg. SLOIN consists of a channel, LED batten, cover and accessories, which must be configured and ordered separately. This product is one part of the complete configuration.



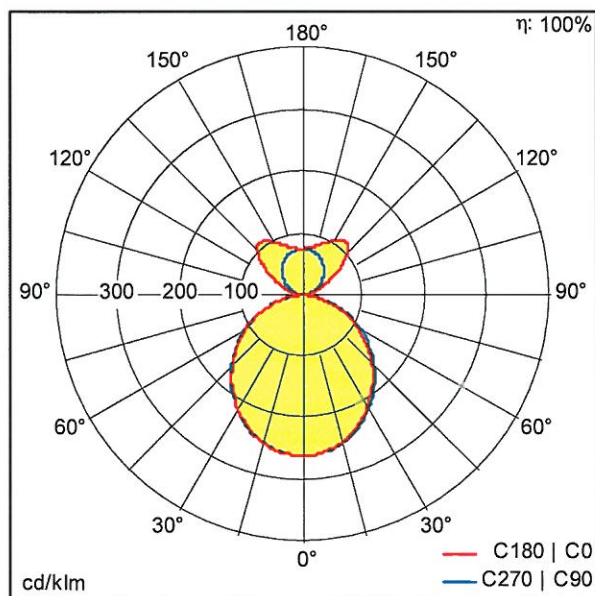
ZS_SLI_F_Einzelleuchte_D-ID_VH.jpg



ZS_SLI_M_Pendel_ID.wmf

Light Distribution

840 PC - diffuse



D42958_u_D42960_o_SLOIN_DI_LED840_L1750_PC_VH.Idt

- Light Source: LED
- Luminaire luminous flux*: 8060 lm
- Luminaire efficacy*: 117 lm/W
- Colour Rendering Index min.: 80
- Ballast 1: 1 x 28000655 LCA 50W 100-400mA one4all Ip PRE
- Ballast 2: 1 x 28000657 LCA 75W 100-400mA one4all Ip PRE
- Correlated colour temperature*: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 3
- Rated median useful life*: L90 50000h at 25°C
- Luminaire input power*: 68.6 W Power factor = 0.92
- Standby Power*: 0.4 W
- Dimming: LDE dimmable to 1% over DALI, DSI and switchDIM DC level is adjustable
- Maintenance category: D - Enclosed IP2X
- Total harmonic distortion (THD): 7.10 %

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.

IP20 IK07

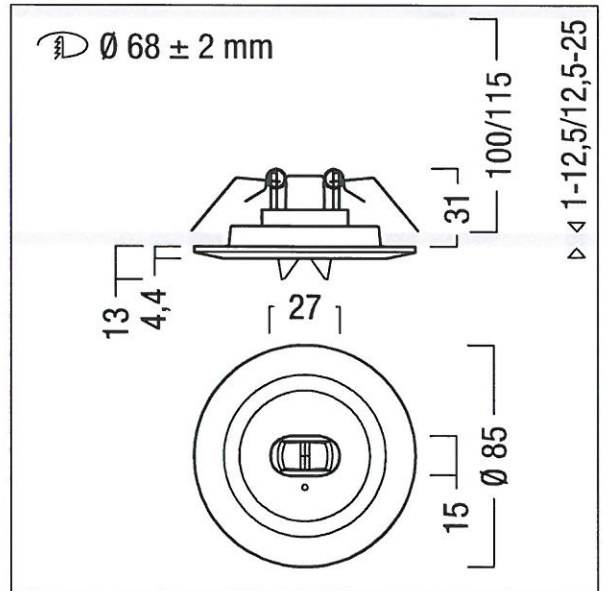
We reserve the right to make technical changes without prior notice. 23.06.2023 © Zumtobel - 5-year guarantee in compliance with the terms of guarantee at www.zumtobel.com/guarantee

Svítidlo typ 8

LED emergency luminaire for antipanic lighting with min. 0,5 lux acc. 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. 2 lux); 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; switching mode and dimming value cannot be changed 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: 0.7 kg; ;



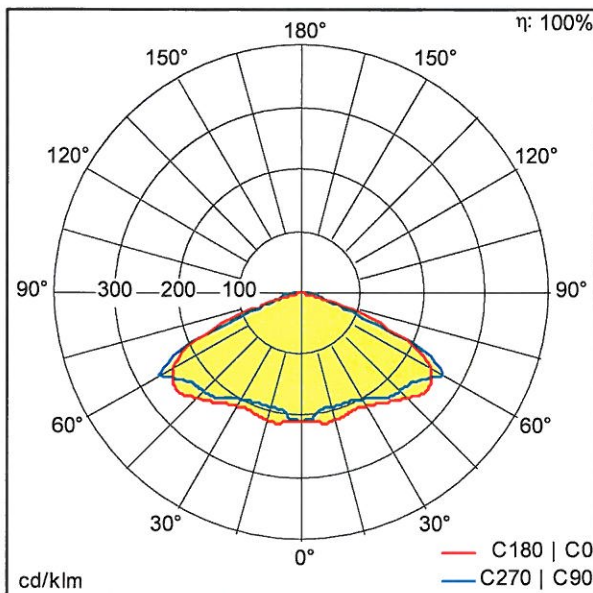
ZS_RES_F_PRO_MRCR_E3D_ANT_HP_WH.jpg



ZS_RES_M_PRO_MRCR.wmf

Light Distribution

STD - standard



D43617AA_RESCLITE_PRO-M_MRCR_ANT_HP_E3D_WH.Idt

- Light Source: LED
- Luminaire luminous flux*: 403 lm
- Total emergency luminous flux: 403 lm
- Luminaire efficacy*: 43 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

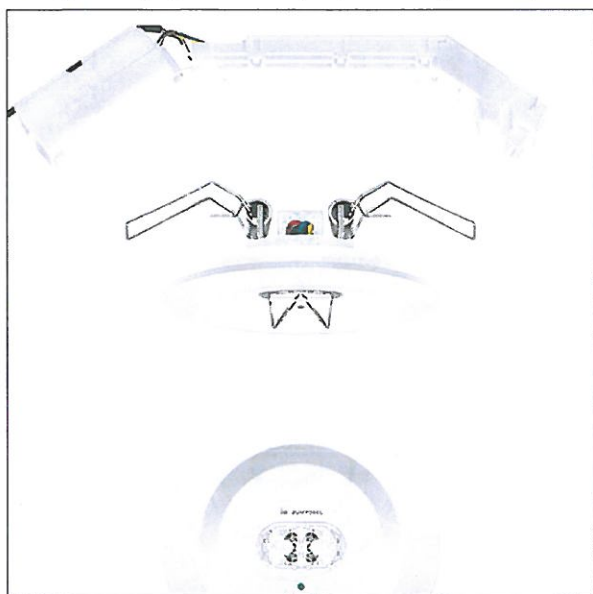
All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.



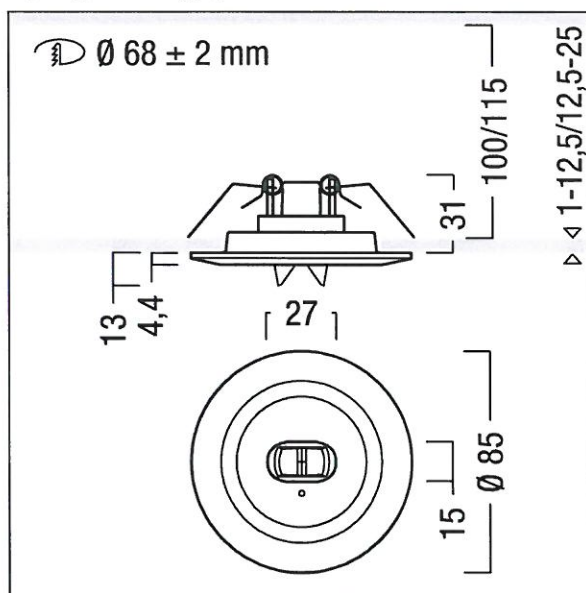
We reserve the right to make technical changes without prior notice. 29.11.2022 © Zumtobel - 5-year guarantee in compliance with the terms of guarantee at www.zumtobel.com/guarantee

Svítidlo typ 9

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; switching mode and dimming value cannot be changed 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; ;



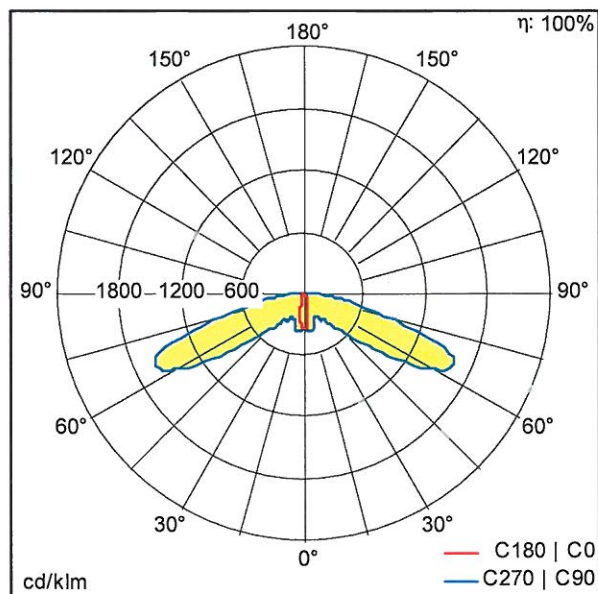
ZS_RES_F_PRO_MRCR_E3D_ESC_HP_WH.jpg



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

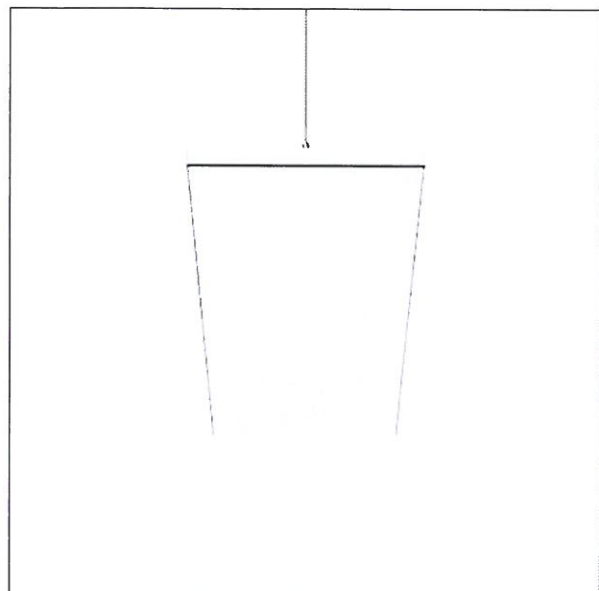
All values marked with an * are rated values. Luminous flux and connected electrical load are subject to an initial tolerance of +/- 10%. Unless stated otherwise, the values apply to an ambient temperature of 25°C.



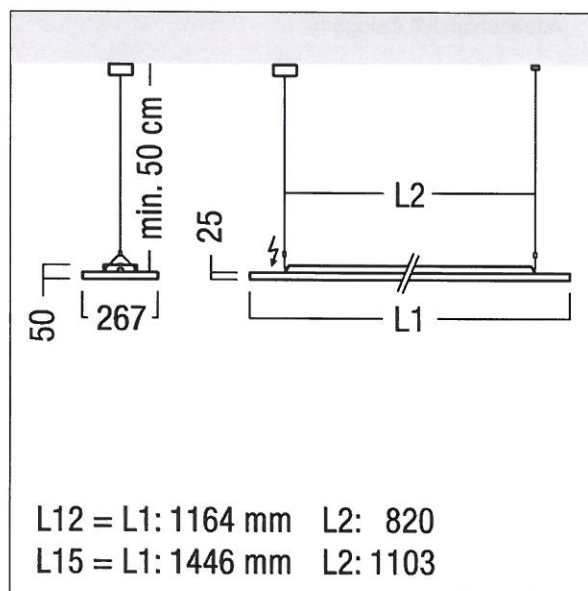
We reserve the right to make technical changes without prior notice. 29.11.2022 © Zumtobel - 5-year guarantee in compliance with the terms of guarantee at www.zumtobel.com/guarantee

Svitidlo typ 10

Frameless indirect/direct LED pendant luminaire with MPO+ micropyramidal optic and separately controllable indirect light for ceiling illumination with batwing light distribution. Luminaire input power: 46.9 W, DALI controllable luminaire with LED converter; LED service life lasts 100000 h before luminous flux is reduced to 95% of the initial value. Chromaticity tolerance (initial MacAdam): 3. Luminaire luminous flux: 5860 lm, Luminaire efficacy: 125 lm/W. Colour rendering Ra > 80, colour temperature 4000 K. Direct/indirect illumination in 70:30 ratio; LEDs coupled in on both sides; light guided by high-efficiency LitePrint® waveguide technology based on multilayer MPO+ micropyramidal optic with seamless look and defined light emission for glare-free light distribution with UGR < 19 and L65 < 3000 cd/m² as per EN 12464; reduced luminance at steep angles designed to cut glare on tilted displays and allow maximum flexibility; evenly spaced LED light points; uniform indirect light distribution optimized for low suspension height of at least 50 cm. Smooth outer diffuser of high grade polymethylmethacrylate, low dirt sensitivity and simple cleaning due to smooth outer cover. High quality luminaire housing made of powder coated sheet steel with all-round optic frame without seam or gap in white. Please order cord suspension kit with transparent connecting cable separately. Suspension length with continuous adjustment. Luminaire wired with halogen-free leads; Dimensions: 1164 x 267 x 50 mm, weight: 9 kg.



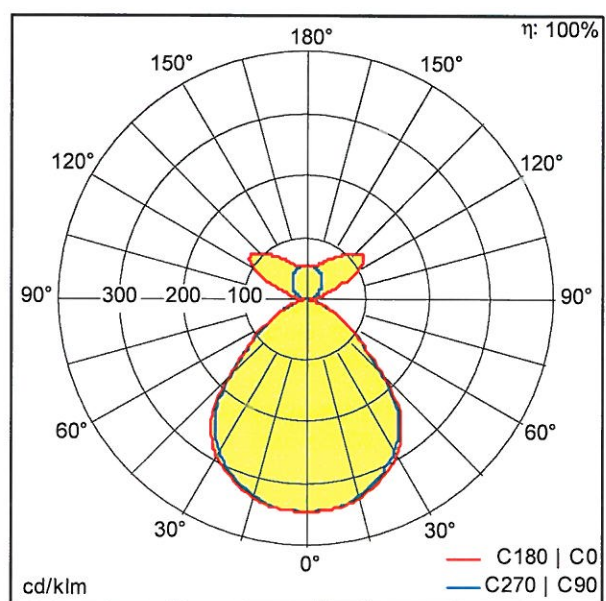
ZS_LF3_F_Pendel_L12.jpg



ZS_LF3_M_Pendel_L.wmf

Light Distribution

IND/DIR - indirect/direct



D41680AA_L_LF3_D-I_5900-840_L12_LDE_WH.Idt

- Light Source: LED
- Luminaire luminous flux*: 5860 lm
- Luminaire efficacy*: 125 lm/W
- Colour Rendering Index min.: 80
- Ballast 1: 1 x 28000655 LCA 50W 100-400mA one4all
lp PRE
- Ballast 2: 1 x 28000656 LCA 50W 350-1050mA one4all
lp PRE
- Correlated colour temperature*: 4000 Kelvin
- Chromaticity tolerance (initial MacAdam): 3
- Rated median useful life*:
L95 100000h at 25°C
L95 75000h at 25°C
L95 50000h at 25°C
- Luminaire input power*: 46.9 W Power factor = 0.98
- Standby Power*: 0.3 W
- Dimming: LDE dimmable to 1%
over DALI, DSI and switchDIM
DC level is adjustable
- Maintenance category: D - Enclosed IP2X

This product contains light sources of energy efficiency class D.

Please also consult the additional information on the next page



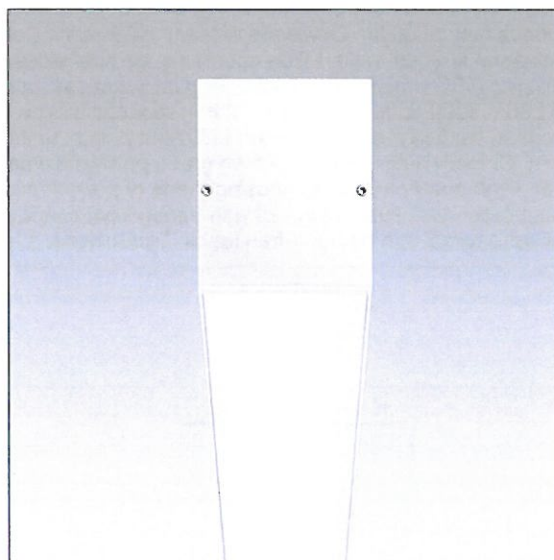
We reserve the right to make technical changes without prior notice. 21.06.2023 © Zumtobel - 5-year guarantee in compliance with the terms of guarantee at www.zumtobel.com/guarantee

Svítidlo typ 11

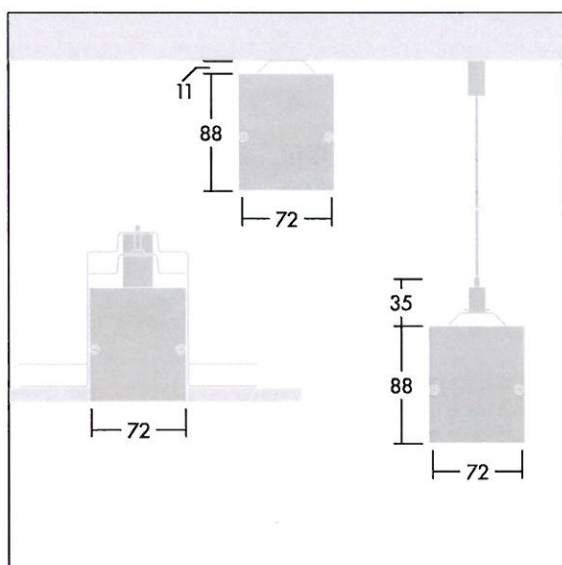
... bez rámečku kanál s optikou pro druhou generaci
... 3. Těleso: práškově nanášený hliník, vhodné pro instalaci přisazením, zavěšením a do sádkartonových stropů. Pro jednotlivou a souvislou instalaci. Souvislé provedení s viditelnými spoji mezi jednotlivými kusy optiky. Optika: opálový (PM) vyrobená z PMMA. Lištu, sadu koncových krytů a příslušenství pro montáž je třeba objednat zvlášť. Svítidlo je zapojeno pomocí vedení neobsahujících halogeny.

L... se skládá z kanálu, LED světelného zdroje, krytu a příslušenství, které je třeba nakonfigurovat a objednat samostatně. Tento produkt je součástí kompletní konfigurace.

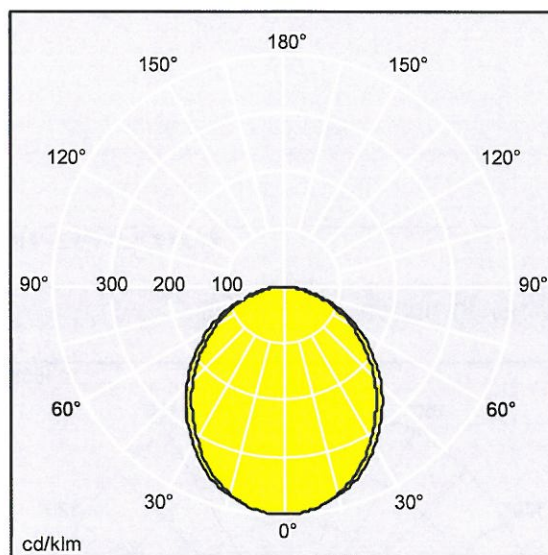
Rozměry: 1250 x 72 x 88 mm
Hmotnost: 2,6 kg



TLG_EQUAL_F_C_Opal_Channel_WH.jpg



TLG_EQUAL_M_surface_suspended_plasterboard.wmf



D44260AA_EQL_830_HF_L1250_PM_WH_.ldt

Poloha světelného zdroje: 3000 K HF
Světelný zdroj: LED
Světelný tok*: 2250 lm
Světelný výkon svítidel*: 99 lm/W
Index podání barev - CRI min.: 80

Teplota chromatičnosti*: 3000 Kelvin
Barevná tolerance v místě (MacAdam): 3
Střední dimenzovaná životnost*:
L90 50000h při/u 25°C
Příkon svítidla*: 22,8 W Výkonový faktor = 0,95
Eta: 1,00 Eta horní: 0,00 Eta dolní: 1,00

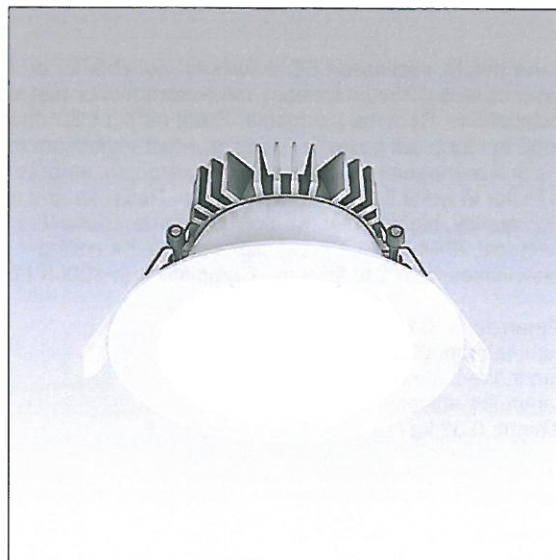
Hodnoty označené * představují stanovené rozměrové hodnoty. Thorn používá ověřené a testované díly od předních dodavatelů, avšak v průběhu jmenovité životnosti výrobku může dojít k ojedinělým případům poruch jednotlivých LED souvisejících s technologií. Mezinárodní normy stanoví tolerance počátečního toku a připojeného zatížení na $\pm 10\%$. Pokud není uvedeno jinak, platí hodnoty pro okolní teplotu 25°C.

Produkty ThornLighting podléhají neustálému vývoji. Veškeré informace uvedené v tomto katalogovém listu mají pouze informativní charakter. Vyhrazujeme si právo provádět technické nebo formální změny našich produktů bez dalšího zveřejnění. ©ThornLighting

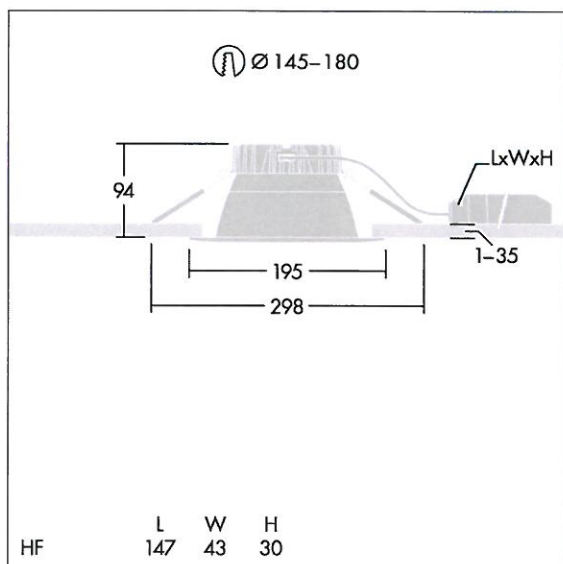
Svítidlo typ 12

A low height, recessed LED downlight. Suitable for ceiling cut-outs Ø145-180 mm for easy refurbishments or fast initial installations. Remote, pluggable, Fixed output LED driver. Loop in - loop out possible. Body: die-cast aluminium for thermal management. Diffuser: polycarbonate, smooth reflector in white finish with wide beam. Reflector and trim: high quality, highly reflective polycarbonate. Class II electrical, IP44_IP20. Spring clips suitable for ceiling thicknesses from 1 to 35 mm. Complete with 3000K LED

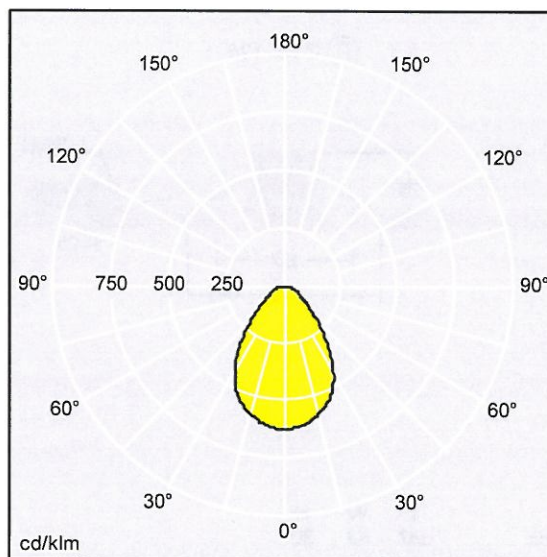
Dimensions: Ø195 x 100 mm
 Luminaire input power: 15.5 W
 Luminaire luminous flux: 1966 lm
 Luminaire efficacy: 127 lm/W
 Weight: 0.56 kg



TLG_CTU3_F_M_LED_RWH_Persp.jpg



TLG_CTU3_M_HFM.wmf



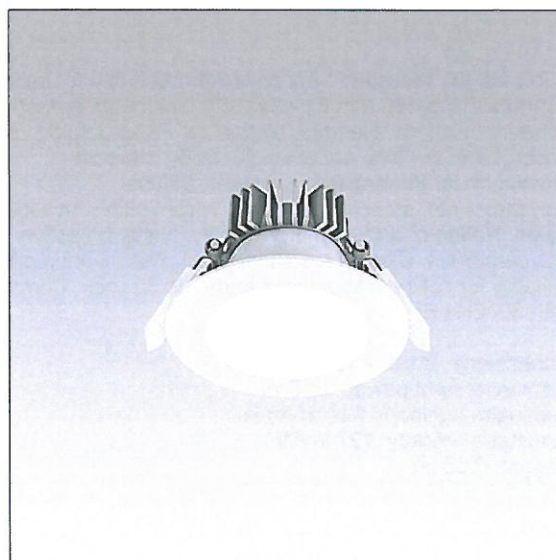
Light Source: LED
 Luminaire luminous flux*: 1966 lm
 Luminaire efficacy*: 127 lm/W
 Lamp efficacy: 126 lm/W
 Colour Rendering Index min.: 80
 Ballast: 1 x 87500989 LC 14/400/35 fixC SRL SNC2

Correlated colour temperature: 3000 Kelvin
 Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life*: L80 50000h at 25°C
 Luminaire input power*: 15.5 W Power factor = 0.56
 Dimming: FIX
 Maintenance category: C - Closed Top Reflector
 LOR: 1,00 ULOR: 0,00 DLOR: 1,00

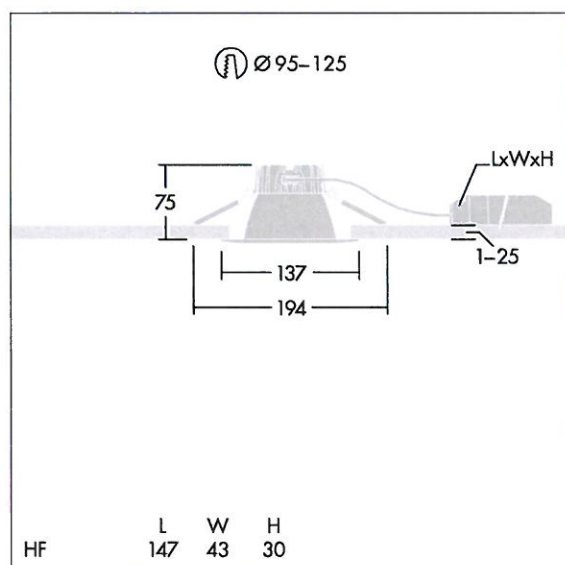
Svitidlo typ 13

A low height, recessed LED downlight. Suitable for ceiling cut-outs Ø95-125 mm for easy refurbishments or fast initial installations. Remote, pluggable, Fixed output LED driver. Loop in - loop out possible. Body: die-cast aluminium for thermal management. Diffuser: polycarbonate, smooth reflector in white finish with wide beam. Reflector and trim: high quality, highly reflective polycarbonate. Class II electrical, IP44_IP20. Spring clips suitable for ceiling thicknesses from 1 to 25 mm. Complete with 3000K LED

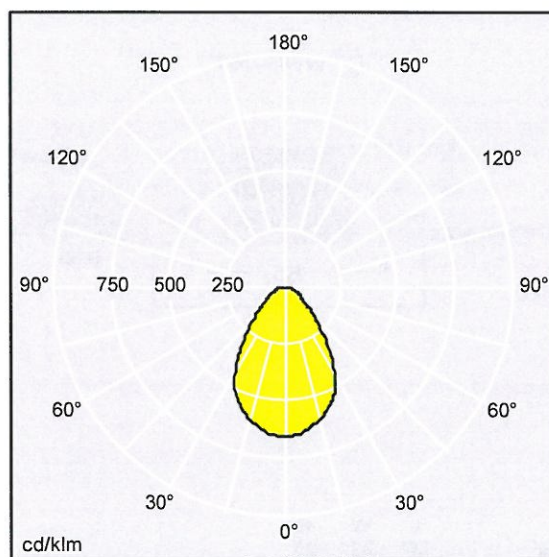
Dimensions: Ø137 x 80 mm
 Luminaire input power: 13.4 W
 Luminaire luminous flux: 1451 lm
 Luminaire efficacy: 108 lm/W
 Weight: 0.32 kg



TLG_CTU3_F_S_LED_RWH_Persp.jpg



TLG_CTU3_M_HFS.wmf



Light Source: LED
 Luminaire luminous flux*: 1451 lm
 Luminaire efficacy*: 108 lm/W
 Lamp efficacy: 108 lm/W
 Colour Rendering Index min.: 80
 Ballast: 1 x 87500989 LC 14/400/35 fixC SRL SNC2

Correlated colour temperature: 3000 Kelvin
 Chromaticity tolerance (initial MacAdam): 3
 Rated median useful life*: L80 50000h at 25°C
 Luminaire input power*: 13.4 W Power factor = 0.55
 Dimming: FIX
 Maintenance category: C - Closed Top Reflector
 LOR: 1,00 ULOR: 0,00 DLOR: 1,00