

TASK 1200

direct / indirect

power

suspended

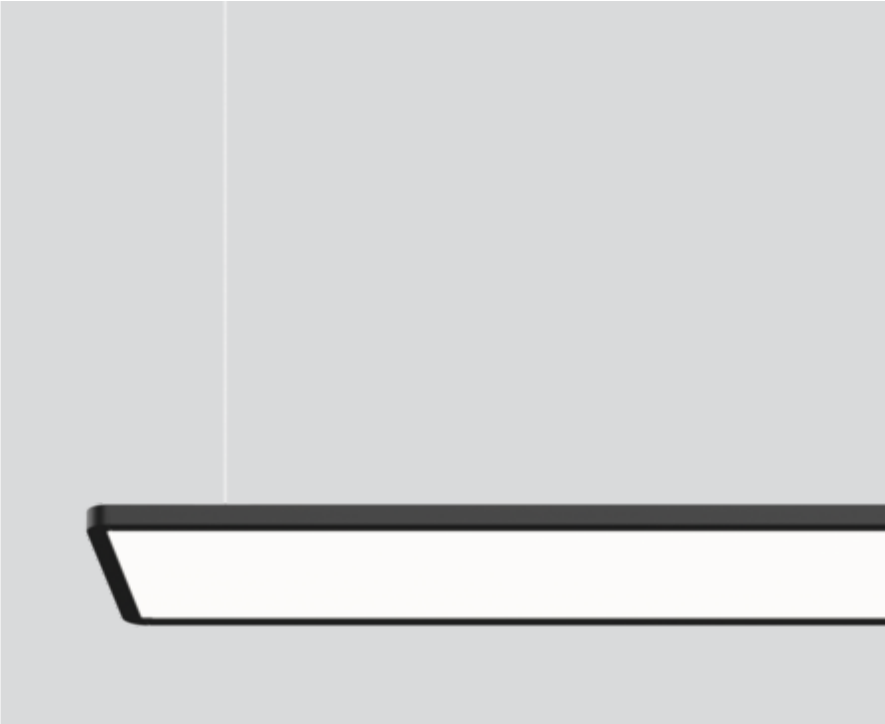
059-2224038K



Project / Type

Notes

Count / Date



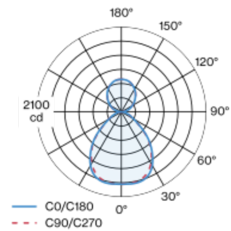
| |
|-------------------------------|
| General |
| Ceiling , Suspended |
| black , RAL 9005 ¹ |
| IP20 |
| indirect 2180 lm |
| direct 3890 lm |
| total 6070 lm |

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|---|
| LED |
| 3000 K |
| CRI ≥ 90 |
| L90 / 50000 h |
| initial MacAdam ≤ 3 SDCM |
| R _g : 96 , R _f : 90 , R _{t(1-15)} : 90 |
| MR 0.61 |
| MDER 0.56 |

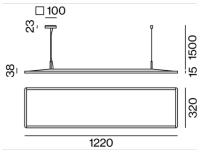
| |
|--------------------------------------|
| Optical |
| Microprismatic |
| microprismatic |
| UGR < 16 , ≥65° <3000 cd/m² |
| P _{stLM} ≤ 1.0 ² |
| SVM ≤ 0.4 ² |

Rectangular luminaire housing with rounded edges in aluminium; extremely flat design (only 15mm); modern shape in elegant design for discerning requirements; surface black powder coated; suspended luminaire with 1500mm cable suspension; with integrated toolless suspension height adjustment on the luminaire; incl. feed (black); direct light distribution through LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; indirect light component with special PCBs for increased luminous flux and maximum ceiling illumination; microprismatic PMMA cover; completely homogeneous illumination; same light density for all surface lights with the same components; UGR ≤ 16; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m²; light colour 3000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; canopy with 2 cable openings and plug-in terminal for through wiring; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 converter; sound absorbing accessories available; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



| |
|------------------------------|
| Electrical |
| DALI-2 |
| 220-240 V |
| system 50 W |
| system 121 lm/W ³ |
| PC1 |
| 1 DALI Addr. |

| |
|----------------|
| Physical |
| cable 1500 mm |
| length 1220 mm |
| width 320 mm |
| height 32 mm |
| 8 kg |

¹ RAL code ² Value of containing product at full load (undimmed)
³ FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.

Installation instructions



Lighting calculator





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Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|------------------------------|--------|-------------------|---------------------------------|--------|
| LLMF | 0.98 | 0.97 | 0.95 | 0.93 | 0.92 |
| LSF | 1 | 1 | 1 | 1 | 1 |
| MF | LMF × RSMF × LLMF × LSF | | RSMF ^a | Room Surface Maintenance Factor | |
| MF | Maintenance Factor | | LLMF | Lamp Lumens Maintenance Factor | |
| LMF ^a | Luminaire Maintenance Factor | | LSF | Lamp Survival Faktor | |

^a According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.

Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------|--------------------|
| B10 | 9 |
| B13 | 12 |
| B16 | 15 |
| B20 | 19 |
| C10 | 15 |
| C13 | 20 |
| C16 | 25 |
| C20 | 31 |