

# TASK 1500 direct

ceiling

059-211513XK



|                |  |
|----------------|--|
| Project / Type |  |
| Notes          |  |
| Count / Date   |  |



## General

|                   |  |
|-------------------|--|
| Ceiling , Surface |  |
| special colours   |  |
| IP20              |  |
| 4570 lm           |  |

## LED

|  |  |
|--|--|
| 4000 K   |  |
| CRI ≥ 90   |  |
| L90 / 50000 h  |  |
| initial MacAdam ≤ 3 SDCM   |  |
| R <sub>g</sub> : 96 , R <sub>f</sub> : 90 , R <sub>(1-15)</sub> : 87 |  |
| MR 0.75  |  |
| MDER 0.68  |  |

## Optical

|   |  |
|---|--|
| Microprismatic                          |  |
| microprismatic                          |  |
| UGR < 19 , ≥65° <3000 cd/m <sup>2</sup> |  |
| PstLM ≤ 1.0 <sup>1</sup>                |  |
| SVM ≤ 0.4 <sup>1</sup>                  |  |

## Electrical

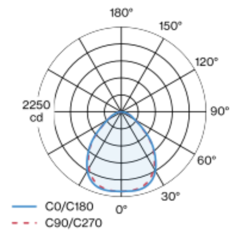
|                              |  |
|------------------------------|--|
| DALI-2                       |  |
| 220-240 V                    |  |
| system 36 W                  |  |
| system 127 lm/W <sup>2</sup> |  |
| PC1                          |  |
| 1 DALI Addr.                 |  |

## Physical

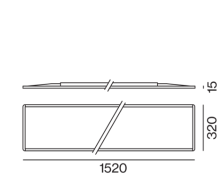
|                |  |
|----------------|--|
| length 1520 mm |  |
| width 320 mm   |  |
| height 38 mm   |  |
| 10.5 kg        |  |

Rectangular luminaire housing with rounded edges in aluminium; extremely flat design (only 15mm); modern shape in elegant design for discerning requirements; surface special colours powder coated; suitable for wall or ceiling mounting; convenient quick mounting system without tools; direct light distribution through LGP body (Light Guiding Prism); side coupled light directed downwards by laser engraving; light control via highly reflective reflector material; microprismatic PMMA cover; completely homogeneous illumination; same light density for all surface lights with the same components; UGR ≤ 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m<sup>2</sup>; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; luminaire with 2 cable openings and plug-in terminals 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



<sup>1</sup> Value of containing product at full load (undimmed)  
<sup>2</sup> 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 <sup>a</sup> | Room Surface Maintenance Factor |
| MF               | Maintenance Factor           | LLMF              | Lamp Lumens Maintenance Factor  |
| LMF <sup>a</sup> | Luminaire Maintenance Factor | LSF               | Lamp Survival Faktor            |

<sup>a</sup> 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                            | 7                  |
| B13                            | 10                 |
| B16                            | 12                 |
| B20                            | 14                 |
| C10                            | 10                 |
| C13                            | 20                 |
| C16                            | 24                 |
| C20                            | 28                 |

