



### Features

• OPTIX LINEAR SURFACE 1200 4000K ALU EM is a high efficacy low glare linear luminaire for office and education applications. Suitable for continuous light line installations with accessories separately available. Surface and suspended mounting. Size: 1160x90x80mm. Aluminised plastic extra low glare optics in a single line configuration. White RAL9016 fixture body. Constant current driver. 3hr maintained emergency version. 4000K Neutral White LED, CRI>80, chromaticity tolerance of 3-step MacAdam ellipse. Luminous flux 3400lm. Power consumption 26.5W. Luminaire efficacy 128lm/W. Lifespan: 48,500 hours L90B10. UGR<19, Luminance at 65°<200 Cd/m2, IK07, IP20. Ultra Low Flicker: <5% Photobiological safety risk group 1. Electrical protection Class I. Glow wire test 850°C.

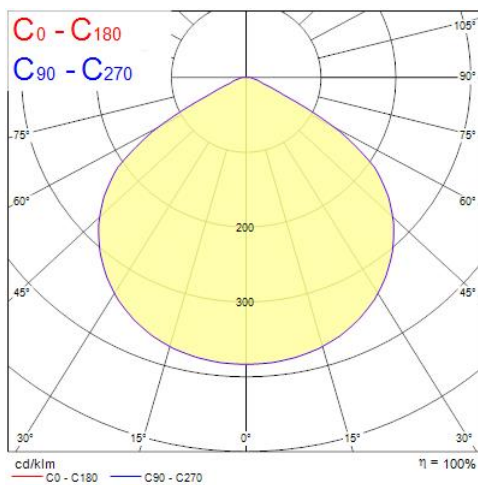
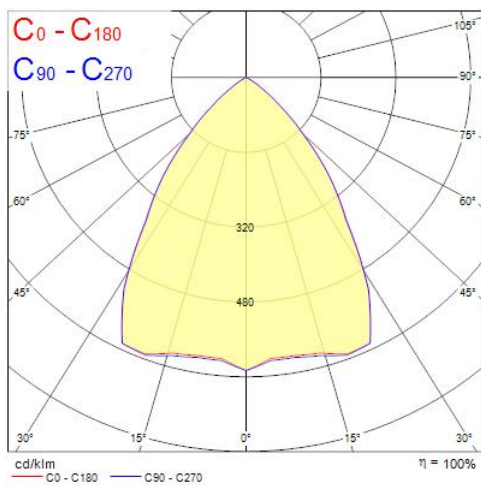
### Product Overview

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Product name                      | OPTIX LINEAR SURFACE 1200 4000K ALU EM |
| Technology                        | LED (3 SDCM)                           |
| Cap/Base                          | N/A                                    |
| Housing                           | Steel                                  |
| Mount                             | Ceiling surface mounting               |
| Fixture rating                    | Enclosed                               |
| General application               | Education, Office                      |
| ETIM Class                        | EC002892                               |
| Fixture luminous flux (lm)        | 3400                                   |
| Luminaire efficacy (lm/W)         | 128                                    |
| Correlated colour temperature (k) | 4000                                   |
| Light colour                      | Neutral White                          |
| CRI (Ra)                          | 80                                     |
| Colour Variation Initial (SDCM)   | 3                                      |

## OPTIX LINEAR SURFACE 1200 4000K ALU EM 2023802

|                                |                             |
|--------------------------------|-----------------------------|
| Glare control                  | < 19                        |
| Photobiological Risk Group     | RG1                         |
| Luminous flux (emergency) (lm) | 85                          |
| Total power consumption (W)    | 26.5                        |
| Electrical protection          | Class I                     |
| Control gear type              | LED driver constant current |
| Dimmable                       | No                          |
| LED Flickering Rate            | Ultra low (5% or less)      |
| Housing colour                 | RAL9016                     |
| IP rating                      | IP20                        |
| IK rating                      | IK07                        |
| Product EAN number             | 5025768238026               |
| Warranty                       | 5 years                     |
| Dimming method                 | N/A                         |

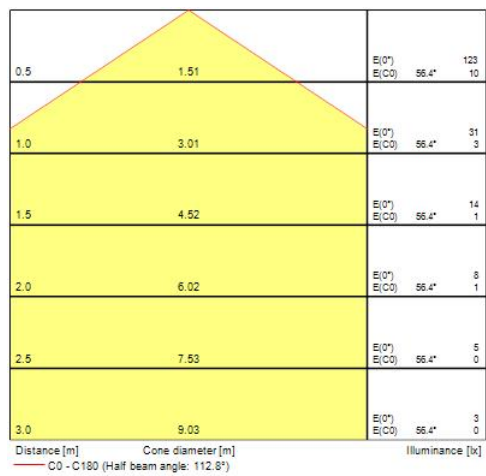
## Photometry



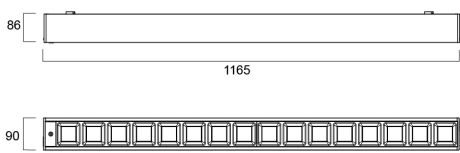
|     |              |                          |                |                      |
|-----|--------------|--------------------------|----------------|----------------------|
| 0.5 | 0.78<br>0.78 | E(0°)<br>E(C90)<br>E(C0) | 38.0°<br>37.9° | 8522<br>2109<br>2115 |
| 1.0 | 1.56<br>1.56 | E(0°)<br>E(C90)<br>E(C0) | 38.0°<br>37.9° | 2130<br>527<br>529   |
| 1.5 | 2.34<br>2.34 | E(0°)<br>E(C90)<br>E(C0) | 38.0°<br>37.9° | 947<br>234<br>235    |
| 2.0 | 3.13<br>3.11 | E(0°)<br>E(C90)<br>E(C0) | 38.0°<br>37.9° | 533<br>132<br>132    |
| 2.5 | 3.91<br>3.89 | E(0°)<br>E(C90)<br>E(C0) | 38.0°<br>37.9° | 341<br>84<br>85      |
| 3.0 | 4.69<br>4.67 | E(0°)<br>E(C90)<br>E(C0) | 38.0°<br>37.9° | 237<br>59<br>59      |

Distance [m] Cone diameter [m]  
C0 - C180 (Half beam angle: 75.8°)  
C90 - C270 (Half beam angle: 76.0°)  
Illuminance [lx]

OPTIX LINEAR SURFACE 1200 4000K ALU EM  
2023802



Technical drawings



Data table

GENERAL DATA

|                                         |                                        |
|-----------------------------------------|----------------------------------------|
| Product name                            | OPTIX LINEAR SURFACE 1200 4000K ALU EM |
| Technology                              | LED (3 SDCM)                           |
| Cap/Base                                | N/A                                    |
| Housing                                 | Steel                                  |
| Mount                                   | Ceiling surface mounting               |
| Fixture rating                          | Enclosed                               |
| General application                     | Education, Office                      |
| Operating temperature range (°C)        | 10°C...+25°C                           |
| Performance ambient temperature Tq (°C) | 25                                     |

## OPTIX LINEAR SURFACE 1200 4000K ALU EM 2023802

|            |          |
|------------|----------|
| ETIM Class | EC002892 |
| Warranty   | 5 years  |

### OPTICAL DATA

|                                   |               |
|-----------------------------------|---------------|
| Fixture luminous flux (lm)        | 3400          |
| Luminaire efficacy (lm/W)         | 128           |
| Correlated colour temperature (k) | 4000          |
| Light colour                      | Neutral White |
| CRI (Ra)                          | 80            |
| Colour Variation Initial (SDCM)   | 3             |
| Distribution type                 | Symmetric     |
| Glare control                     | < 19          |
| Photobiological Risk Group        | RG1           |
| Luminous flux (emergency) (lm)    | 85            |
| Emergency duration (h)            | 3             |

### ELECTRICAL DATA

|                                                                  |                             |
|------------------------------------------------------------------|-----------------------------|
| Total power consumption (W)                                      | 26.5                        |
| Primary Supply/Product voltage - min (V)                         | 220                         |
| Primary Supply/Product voltage - max (V)                         | 240                         |
| Lamp power factor                                                | 0.95                        |
| THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x % | 8                           |
| Electrical protection                                            | Class I                     |
| Control gear required                                            | No                          |
| Control gear type                                                | LED driver constant current |
| Dimmable                                                         | No                          |
| Dimming method                                                   | N/A                         |
| Drive current (mA)                                               | 500                         |
| Inrush Current (A)                                               | 25                          |
| Inrush Duration (µs)                                             | 250                         |
| Energy Efficiency Class (A->G) of contained light source         | C                           |
| Nominal Frequency (Hz)                                           | 50/60Hz                     |

## OPTIX LINEAR SURFACE 1200 4000K ALU EM 2023802

|                                                                 |                        |
|-----------------------------------------------------------------|------------------------|
| LED Flickering Rate                                             | Ultra low (5% or less) |
| Max. products per 10A C Breaker                                 | 27                     |
| Max. products per 13A C Breaker                                 | 35                     |
| Max. products per 16A C Breaker                                 | 45                     |
| Max. products per 20A C Breaker                                 | 58                     |
| Max. products per 10A B Breaker                                 | 16                     |
| Max. products per 13A B Breaker                                 | 21                     |
| Max. products per 16A B Breaker                                 | 27                     |
| Max. products per 20A B Breaker                                 | 35                     |
| Connectable conductor cross section -<br>Min (mm <sup>2</sup> ) | 2.5                    |
| Connectable conductor cross section -<br>Max (mm <sup>2</sup> ) | 2.5                    |

### LIFETIME DATA

|                  |        |
|------------------|--------|
| Lifespan L70 B50 | 120000 |
| Lifespan L80 B20 | 107500 |
| Lifespan L90 B10 | 48500  |

### PHYSICAL DATA

|                             |                  |
|-----------------------------|------------------|
| Housing colour              | RAL9016          |
| IP rating                   | IP20             |
| IK rating                   | IK07             |
| Diffuser finish             | Matt/satinized   |
| Diffuser material           | PC Polycarbonate |
| Nominal Product Length (mm) | 1160             |
| Nominal Product Width (mm)  | 90               |
| Nominal Product Height (mm) | 80               |
| Weight (kg)                 | 4.0              |

### PACKAGING

|                                       |               |
|---------------------------------------|---------------|
| Product EAN number                    | 5025768238026 |
| Packaging single length / height (cm) | 119.0         |
| Packaging single width (cm)           | 10.0          |

# Concord

## OPTIX LINEAR SURFACE 1200 4000K ALU EM 2023802

|                                      |                |
|--------------------------------------|----------------|
| Packaging single depth (cm)          | 11.0           |
| DUN14 (inner)                        | 05025768238026 |
| Units per outer package              | 1              |
| Packaging outer length / height (cm) | 119.0          |
| Packaging outer width (cm)           | 10.0           |
| Packaging outer depth (cm)           | 11.0           |

### SAFETY DATA

|                                     |       |
|-------------------------------------|-------|
| Glow Wire Test (°C)                 | 850   |
| Optimal operating condition (°C)    | 10-25 |
| Special purpose lamp                | No    |
| Dry applications use only           | No    |
| Suitable for household illumination | No    |