

### Features

• OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM is a high efficacy low glare luminaire for office and education applications. Direct / Indirect lighting with 80% downlight and 20% uplight ratio for ceiling suspended mounting. Size: 1410x200x45mm. Aluminised plastic extra low glare optics in 2 lines configuration. White RAL9016 fixture body. DALI dimmable. 3hr maintained emergency version. 4000K Neutral White LED, CRI>80, chromaticity tolerance of 3-step MacAdam ellipse. Luminous flux 7000lm. Power consumption 47W. Luminaire efficacy 149lm/W. Lifespan: 60,000 hours L90B10. UGR<16, Luminance at 65°<200 Cd/m2, IK07, IP20. Photobiological safety risk group 1. Electrical protection Class I. Glow wire test 850°C.

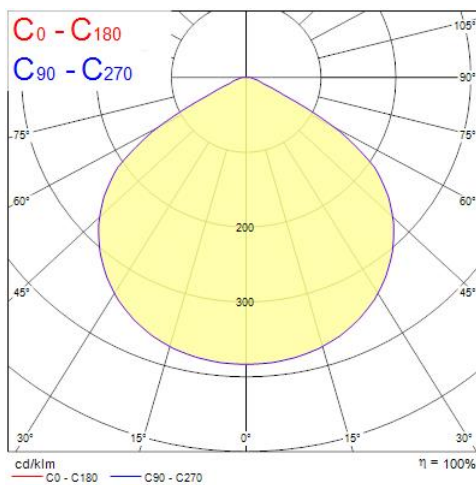
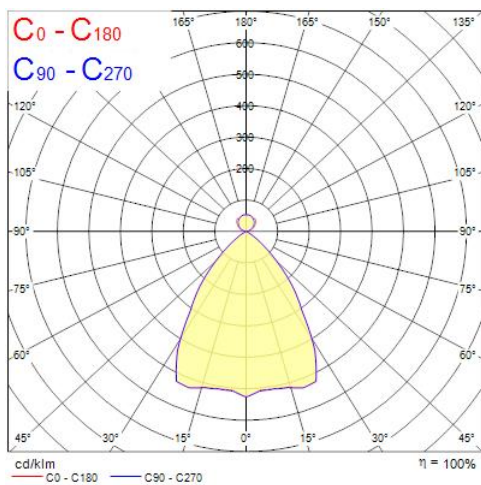
### Product Overview

|                                   |                                                        |
|-----------------------------------|--------------------------------------------------------|
| Product name                      | OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM |
| Technology                        | LED (3 SDCM)                                           |
| Cap/Base                          | N/A                                                    |
| Housing                           | Steel                                                  |
| Mount                             | Suspended                                              |
| Fixture rating                    | Enclosed                                               |
| General application               | Education, Office                                      |
| ETIM Class                        | EC002892                                               |
| Fixture luminous flux (lm)        | 7000                                                   |
| Luminaire efficacy (lm/W)         | 149                                                    |
| Correlated colour temperature (k) | 4000                                                   |
| Light colour                      | Neutral White                                          |
| CRI (Ra)                          | 80                                                     |
| Colour Variation Initial (SDCM)   | 3                                                      |

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|                                |                             |
|--------------------------------|-----------------------------|
| Glare control                  | < 14                        |
| Photobiological Risk Group     | RG1                         |
| Luminous flux (emergency) (lm) | 85                          |
| Total power consumption (W)    | 47                          |
| Electrical protection          | Class I                     |
| Control gear type              | LED driver constant current |
| Dimmable                       | Yes                         |
| LED Flickering Rate            | Ultra low (5% or less)      |
| Housing colour                 | RAL9016                     |
| IP rating                      | IP20                        |
| IK rating                      | IK07                        |
| Product EAN number             | 5025768237739               |
| Warranty                       | 5 years                     |
| Dimming method                 | DALI                        |

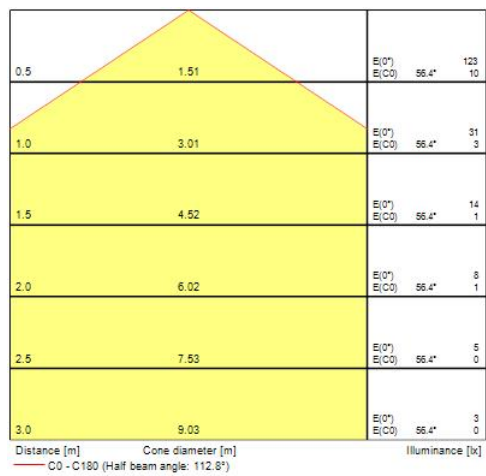
### Photometry



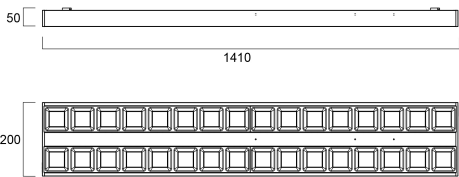
| Distance [m] | Cone diameter [m] | E(0°)<br>E(C90)<br>E(C0) | Illuminance [lx] |
|--------------|-------------------|--------------------------|------------------|
| 0.5          | 0.78<br>0.78      | 14738<br>3671<br>3645    |                  |
| 1.0          | 1.55<br>1.56      | 3685<br>918<br>911       |                  |
| 1.5          | 2.33<br>2.34      | 1638<br>408<br>405       |                  |
| 2.0          | 3.10<br>3.11      | 921<br>229<br>228        |                  |
| 2.5          | 3.88<br>3.89      | 590<br>147<br>146        |                  |
| 3.0          | 4.65<br>4.67      | 409<br>102<br>101        |                  |

# Concord

## OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM 2023773



### Technical drawings



### Data table

#### GENERAL DATA

|                                  |                                                        |
|----------------------------------|--------------------------------------------------------|
| Product name                     | OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM |
| Technology                       | LED (3 SDCM)                                           |
| Cap/Base                         | N/A                                                    |
| Housing                          | Steel                                                  |
| Mount                            | Suspended                                              |
| Fixture rating                   | Enclosed                                               |
| General application              | Education, Office                                      |
| Operating temperature range (°C) | 10°C...+25°C                                           |

## OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM 2023773

|                                         |    |
|-----------------------------------------|----|
| Performance ambient temperature Tq (°C) | 25 |
|-----------------------------------------|----|

|            |          |
|------------|----------|
| ETIM Class | EC002892 |
|------------|----------|

|          |         |
|----------|---------|
| Warranty | 5 years |
|----------|---------|

### OPTICAL DATA

|                            |      |
|----------------------------|------|
| Fixture luminous flux (lm) | 7000 |
|----------------------------|------|

|                           |     |
|---------------------------|-----|
| Luminaire efficacy (lm/W) | 149 |
|---------------------------|-----|

|                                   |      |
|-----------------------------------|------|
| Correlated colour temperature (k) | 4000 |
|-----------------------------------|------|

|              |               |
|--------------|---------------|
| Light colour | Neutral White |
|--------------|---------------|

|          |    |
|----------|----|
| CRI (Ra) | 80 |
|----------|----|

|                                 |   |
|---------------------------------|---|
| Colour Variation Initial (SDCM) | 3 |
|---------------------------------|---|

|                   |           |
|-------------------|-----------|
| Distribution type | Symmetric |
|-------------------|-----------|

|               |      |
|---------------|------|
| Glare control | < 14 |
|---------------|------|

|                            |     |
|----------------------------|-----|
| Photobiological Risk Group | RG1 |
|----------------------------|-----|

|                                |    |
|--------------------------------|----|
| Luminous flux (emergency) (lm) | 85 |
|--------------------------------|----|

|                        |   |
|------------------------|---|
| Emergency duration (h) | 3 |
|------------------------|---|

### ELECTRICAL DATA

|                             |    |
|-----------------------------|----|
| Total power consumption (W) | 47 |
|-----------------------------|----|

|                                          |     |
|------------------------------------------|-----|
| Primary Supply/Product voltage - min (V) | 220 |
|------------------------------------------|-----|

|                                          |     |
|------------------------------------------|-----|
| Primary Supply/Product voltage - max (V) | 240 |
|------------------------------------------|-----|

|                   |      |
|-------------------|------|
| Lamp power factor | 0.98 |
|-------------------|------|

|                                                                  |     |
|------------------------------------------------------------------|-----|
| THD (at 230 V, 50 Hz, full load, at 100% dimming level) ≤ xx.x % | 6.1 |
|------------------------------------------------------------------|-----|

|                       |         |
|-----------------------|---------|
| Electrical protection | Class I |
|-----------------------|---------|

|                       |    |
|-----------------------|----|
| Control gear required | No |
|-----------------------|----|

|                   |                             |
|-------------------|-----------------------------|
| Control gear type | LED driver constant current |
|-------------------|-----------------------------|

|          |     |
|----------|-----|
| Dimmable | Yes |
|----------|-----|

|                |      |
|----------------|------|
| Dimming method | DALI |
|----------------|------|

|                    |     |
|--------------------|-----|
| Drive current (mA) | 950 |
|--------------------|-----|

|                    |    |
|--------------------|----|
| Inrush Current (A) | 35 |
|--------------------|----|

|                      |     |
|----------------------|-----|
| Inrush Duration (µs) | 170 |
|----------------------|-----|

## OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM 2023773

|                                                              |                                   |
|--------------------------------------------------------------|-----------------------------------|
| Energy Efficiency Class (A->G) of contained light source     | D, C, C(more than 1 Light Source) |
| Nominal Frequency (Hz)                                       | 50/60Hz                           |
| LED Flickering Rate                                          | Ultra low (5% or less)            |
| Max. products per 10A C Breaker                              | 21                                |
| Max. products per 13A C Breaker                              | 28                                |
| Max. products per 16A C Breaker                              | 35                                |
| Max. products per 20A C Breaker                              | 45                                |
| Max. products per 10A B Breaker                              | 13                                |
| Max. products per 13A B Breaker                              | 17                                |
| Max. products per 16A B Breaker                              | 21                                |
| Max. products per 20A B Breaker                              | 27                                |
| Connectable conductor cross section - Max (mm <sup>2</sup> ) | 2.5                               |

### LIFETIME DATA

|                  |        |
|------------------|--------|
| Lifespan L70 B50 | 120000 |
| Lifespan L80 B20 | 120000 |
| Lifespan L90 B10 | 60000  |

### PHYSICAL DATA

|                             |                  |
|-----------------------------|------------------|
| Housing colour              | RAL9016          |
| IP rating                   | IP20             |
| IK rating                   | IK07             |
| Diffuser finish             | Matt/satinized   |
| Diffuser material           | PC Polycarbonate |
| Nominal Product Length (mm) | 1410             |
| Nominal Product Width (mm)  | 200              |
| Nominal Product Height (mm) | 45               |
| Weight (kg)                 | 1.9              |

### PACKAGING

|                                       |               |
|---------------------------------------|---------------|
| Product EAN number                    | 5025768237739 |
| Packaging single length / height (cm) | 147.0         |

## OPTIX SURFACE 1500x200 2 LINE D/I HO 4000K ALU DALI EM 2023773

|                                      |                |
|--------------------------------------|----------------|
| Packaging single width (cm)          | 22.5           |
| Packaging single depth (cm)          | 6.8            |
| DUN14 (inner)                        | 05025768237739 |
| Units per outer package              | 1              |
| Packaging outer length / height (cm) | 147.0          |
| Packaging outer width (cm)           | 22.5           |
| Packaging outer depth (cm)           | 6.8            |

### 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    |