

## Colossal 400 OPAL

COLOSSAL 400mm 940 OPAL DIR+HAL WHITE EM

2071152



### Product features

- 400mm diameter circular architectural luminaire, can be surface mounted or suspended. Powder coated aluminium housing (RAL9016) with polycarbonate opal diffuser. Direct/indirect (halo) light distribution, 2280lm luminous flux, 21.2W system power, 108lm/W luminaire efficacy. Constant current driver. 3 hours integrated emergency. Colour rendering index Ra >90, 4000K Neutral White LED, chromaticity tolerance of 3-step MacAdam ellipse. IP40, IK03. 450mA drive current. Electrical protection Class I, 220-240V. Reported lifetime 66k hours L90B10.



### PRODUCT OVERVIEW

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Product name                    | COLOSSAL 400mm 940 OPAL DIR+HAL WHITE EM |
| Technology                      | LED (3 SDCM)                             |
| Cap/Base                        | N/A                                      |
| Housing                         | Aluminium                                |
| Mount                           | Suspended                                |
| General application             | Hospitality, Office                      |
| ETIM Class                      | EC002892                                 |
| Warranty                        | 5 years                                  |
| Fixture luminous flux (lm)      | 2280                                     |
| Luminaire efficacy (lm/W)       | 104                                      |
| Colour temperature (K)          | 4000                                     |
| Colour Code                     | 940                                      |
| Light colour                    | Neutral White                            |
| CRI (Ra)                        | 90                                       |
| Colour Variation Initial (SDCM) | SDCM3                                    |
| Glare control                   | < 22                                     |
| Photobiological Risk Group      | RG0                                      |
| Total power consumption (W)     | 21.9                                     |
| Electrical protection           | Class I                                  |
| Control gear type               | LED driver constant current              |
| Dimmable                        | No                                       |
| Dimming method                  | N/A                                      |
| LED Flickering Rate             | Ultra low (5% or less)                   |
| Housing colour                  | RAL 9016 - Traffic white / Bezel         |
| IP rating                       | IP40/20                                  |
| IK rating                       | IK07                                     |
| Product EAN number              | 5025768711529                            |

### DATA TABLE

#### General data

|              |                                          |
|--------------|------------------------------------------|
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|--------------|------------------------------------------|

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|                                  |                     |
|----------------------------------|---------------------|
| Technology                       | LED (3 SDCM)        |
| Cap/Base                         | N/A                 |
| Housing                          | Aluminium           |
| Mount                            | Suspended           |
| General application              | Hospitality, Office |
| Operating temperature range (°C) | 10°C...+25°C        |
| ETIM Class                       | EC002892            |
| Warranty                         | 5 years             |

### Optical data

|                                 |               |
|---------------------------------|---------------|
| Fixture luminous flux (lm)      | 2280          |
| Luminaire efficacy (lm/W)       | 104           |
| Colour temperature (K)          | 4000          |
| Colour Code                     | 940           |
| Light colour                    | Neutral White |
| CRI (Ra)                        | 90            |
| Colour Variation Initial (SDCM) | SDCM3         |
| Distribution type               | Symmetric     |
| Glare control                   | < 22          |
| Photobiological Risk Group      | RG0           |
| Emergency duration (h)          | 3             |

### Electrical data

|                                                                |                             |
|----------------------------------------------------------------|-----------------------------|
| Total power consumption (W)                                    | 21.9                        |
| Mains voltage (V)                                              | 220-240V                    |
| Lamp power factor                                              | 0.95                        |
| THD (at 230 V, 50 Hz, full load, at 100% dimming level) xx.x % | 10                          |
| Electrical protection                                          | Class I                     |
| Control gear required                                          | No                          |
| Control gear type                                              | LED driver constant current |
| Transformer required                                           | No                          |
| Dimmable                                                       | No                          |
| Dimming method                                                 | N/A                         |
| Drive current (mA)                                             | 450                         |
| Inrush Current (A)                                             | 28                          |
| Inrush Duration (µs)                                           | 139                         |
| Glow Wire Test (°C)                                            | 650                         |
| Energy Efficiency Class (A->G) of contained light source       | C                           |
| Nominal Frequency (Hz)                                         | 50/60Hz                     |
| LED Flickering Rate                                            | Ultra low (5% or less)      |
| Max. Luminaires per 10A C Breaker                              | 31                          |
| Max. Luminaires per 13A C Breaker                              | 41                          |
| Max. Luminaires per 16A C Breaker                              | 51                          |
| Max. Luminaires per 20A C Breaker                              | 70                          |
| Max. Luminaires per 10A B Breaker                              | 19                          |
| Max. Luminaires per 13A B Breaker                              | 25                          |
| Max. Luminaires per 16A B Breaker                              | 31                          |
| Max. Luminaires per 20A B Breaker                              | 42                          |

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### Lifetime data

|                  |        |
|------------------|--------|
| Lifespan L70 B50 | 170000 |
| Lifespan L80 B20 | 145000 |
| Lifespan L90 B50 | 80000  |
| Lifespan L90 B10 | 66000  |

### Physical data

|                               |                                  |
|-------------------------------|----------------------------------|
| Housing colour                | RAL 9016 - Traffic white / Bezel |
| IP rating                     | IP40/20                          |
| IK rating                     | IK07                             |
| Diffuser finish               | Opal                             |
| Diffuser material             | PC Polycarbonate                 |
| Nominal Product Height (mm)   | 93                               |
| Nominal Product Diameter (mm) | 400                              |
| Weight (kg)                   | 6.8                              |

### Packaging

|                                       |                |
|---------------------------------------|----------------|
| Single packaging type                 | Carton         |
| Product EAN number                    | 5025768711529  |
| Packaging single length / height (cm) | 14.0           |
| Packaging single width (cm)           | 47.0           |
| Packaging single depth (cm)           | 47.0           |
| DUN14 (outer)                         | 05025768711529 |
| Units per outer package               | 1              |
| Packaging outer length / height (cm)  | 14.0           |
| Packaging outer width (cm)            | 47.0           |
| Packaging outer depth (cm)            | 47.0           |

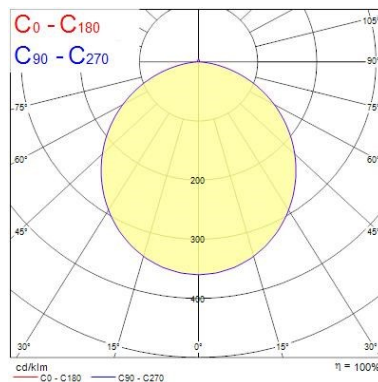
### Safety data

|                                  |       |
|----------------------------------|-------|
| Optimal operating condition (°C) | 10-25 |
|----------------------------------|-------|

## PHOTOMETRY

|     |      |                      |             |
|-----|------|----------------------|-------------|
| 0.5 | 1.41 | E(0°)<br>E(C0) 54.7° | 3283<br>318 |
| 1.0 | 2.82 | E(0°)<br>E(C0) 54.7° | 821<br>79   |
| 1.5 | 4.24 | E(0°)<br>E(C0) 54.7° | 368<br>35   |
| 2.0 | 5.65 | E(0°)<br>E(C0) 54.7° | 205<br>20   |
| 2.5 | 7.06 | E(0°)<br>E(C0) 54.7° | 131<br>13   |
| 3.0 | 8.47 | E(0°)<br>E(C0) 54.7° | 91<br>9     |

Distance [m]      Cone diameter [m]      Illuminance [lx]  
C0 - C180 (Half beam angle: 109.4°)



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### TECHNICAL DRAWINGS

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