

Concord

COLOSSAL 400mm HO 840 OPAL DIR WHITE DALI 2071331



Features

- 400mm diameter circular architectural luminaire, can be surface mounted or suspended. Powder coated aluminium housing (RAL9016) with polycarbonate opal diffuser. Direct light distribution, 3435lm luminous flux, 27W system power, 127lm/W luminaire efficacy. DALI dimmable. Colour rendering index Ra >80, 4000K Neutral White LED, chromaticity tolerance of 3-step MacAdam ellipse. IP40, IK03. 600mA drive current. Electrical protection Class1, 220-240V. Reported lifetime 66k hours L90B10.

Product Overview

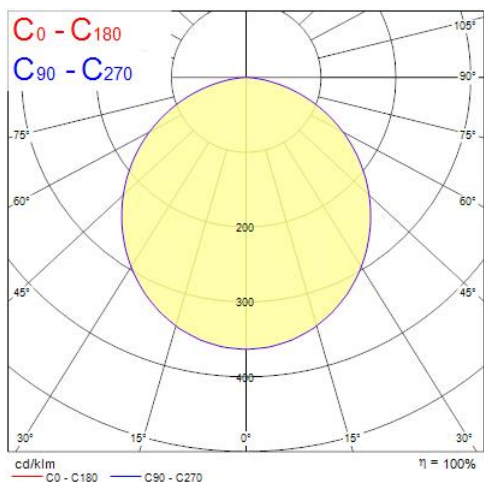
| | |
|-----------------------------------|---|
| Product name | COLOSSAL 400mm HO 840 OPAL DIR WHITE DALI |
| Technology | LED (3 SDCM) |
| Cap/Base | N/A |
| Housing | Aluminium |
| Mount | Ceiling surface mounting, Suspended |
| General application | Hospitality, Office |
| ETIM Class | EC002892 |
| Fixture luminous flux (lm) | 3435 |
| Luminaire efficacy (lm/W) | 127 |
| Correlated colour temperature (k) | 4000 |
| Light colour | Neutral White |
| CRI (Ra) | 80 |
| Colour Variation Initial (SDCM) | 3 |
| Glare control | < 24 |
| Photobiological Risk Group | RG0 |
| Total power consumption (W) | 27 |
| Electrical protection | Class I |
| Control gear type | LED driver constant current |
| Dimmable | Yes |

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| | |
|---------------------|------------------------|
| LED Flickering Rate | Ultra low (5% or less) |
| Housing colour | RAL9016 |
| IP rating | IP40/20 |
| IK rating | IK07 |
| Product EAN number | 5025768713318 |
| Warranty | 5 years |
| Dimming method | DALI-2 |
| Colour Code | 840 |

Photometry



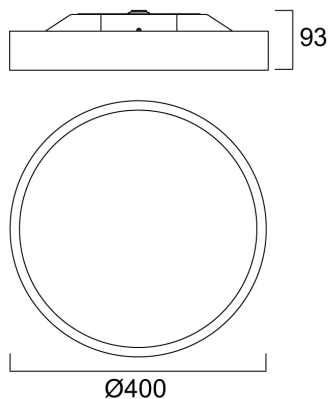
| Distance [m] | Cone diameter [m] | E(0°) E(C0) | Illuminance [lx] |
|--------------|-------------------|----------------|------------------|
| 0.5 | 1.42 | 54.8° | 4992 478 |
| 1.0 | 2.84 | 54.8° | 1248 120 |
| 1.5 | 4.25 | 54.8° | 555 53 |
| 2.0 | 5.67 | 54.8° | 312 30 |
| 2.5 | 7.09 | 54.8° | 200 19 |
| 3.0 | 8.51 | 54.8° | 139 13 |

— C₀ - C₁₈₀ (Half beam angle: 109.6°)

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Technical drawings



Data table

GENERAL DATA

| | |
|----------------------------------|---|
| Product name | COLOSSAL 400mm HO 840 OPAL DIR WHITE DALI |
| Technology | LED (3 SDCM) |
| Cap/Base | N/A |
| Housing | Aluminium |
| Mount | Ceiling surface mounting, 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) | 3435 |
| Luminaire efficacy (lm/W) | 127 |
| Correlated colour temperature (k) | 4000 |
| Colour Code | 840 |

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| | |
|---------------------------------|---------------|
| Light colour | Neutral White |
| CRI (Ra) | 80 |
| Colour Variation Initial (SDCM) | 3 |
| Distribution type | Symmetric |
| Glare control | < 24 |
| Photobiological Risk Group | RG0 |

ELECTRICAL DATA

| | |
|--|-----------------------------|
| Total power consumption (W) | 27 |
| 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 % | 10 |
| Electrical protection | Class I |
| Control gear required | No |
| Control gear type | LED driver constant current |
| Dimmable | Yes |
| Dimming method | DALI-2 |
| Drive current (mA) | 600 |
| Inrush Current (A) | 20 |
| Inrush Duration (µs) | 200 |
| Energy Efficiency Class (A->G) of contained light source | B |
| Nominal Frequency (Hz) | 50/60Hz |
| LED Flickering Rate | Ultra low (5% or less) |
| Max. products per 10A C Breaker | 31 |
| Max. products per 13A C Breaker | 39 |
| Max. products per 16A C Breaker | 51 |
| Max. products per 20A C Breaker | 62 |
| Max. products per 10A B Breaker | 18 |
| Max. products per 16A B Breaker | 30 |
| Max. products per 20A B Breaker | 37 |
| Connectable conductor cross section - Min (mm ²) | 1.5 |

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Connectable conductor cross section - 2.5
Max (mm²)

LIFETIME DATA

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

PHYSICAL DATA

| | |
|-------------------------------|------------------|
| Housing colour | RAL9016 |
| 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) | 6.5 |

PACKAGING

| | |
|---------------------------------------|----------------|
| Product EAN number | 5025768713318 |
| Packaging single length / height (cm) | 14.0 |
| Packaging single width (cm) | 47.0 |
| Packaging single depth (cm) | 47.0 |
| DUN14 (inner) | 05025768713318 |
| 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

| | |
|----------------------------------|-------|
| Glow Wire Test (°C) | 650 |
| Optimal operating condition (°C) | 10-25 |
| Special purpose lamp | No |

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Dry applications use only

No

Suitable for household illumination

No