

# COLOSSAL 900mm 830 OPAL DIR WHITE SSC

Item No: 2071236

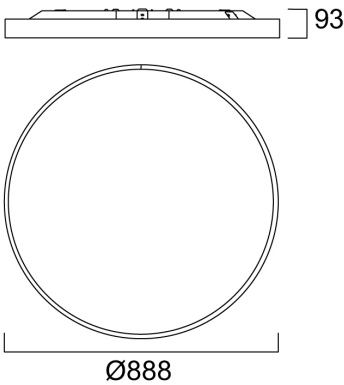
Concord



900mm diameter circular architectural luminaire, can be surface mounted or suspended. Powder coated aluminium housing (RAL9016) with polycarbonate opal diffuser. Direct light distribution, 10375lm luminuous flux, 76.8W system power, 135lm/W luminiare efficacy. Sylsmart Standalone enabled. Colour rendering index Ra >80, 3000K Warm White LED, chromaticity tolerance of 3-step MacAdam ellipse. IP40/IP20, IK03. 450mA drive current. Electrical protection Class1, 220-240V. Reported lifetime 66k hours L90B10.

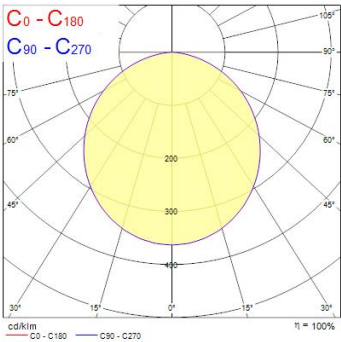
## Technical Assets

### Dimensions (mm)



### Photometrics

| Distance [m] | Cone diameter [m] | Beam angle [°] | Beam diameter [m] | Beam area [m²] | Beam flux [lm] | Beam illuminance [lx] |
|--------------|-------------------|----------------|-------------------|----------------|----------------|-----------------------|
| 0.5          | 1.42              | 109.5          | 1.42              | 1.57           | 19075          | 12464                 |
| 1.0          | 2.84              | 109.5          | 2.84              | 6.28           | 3770           | 361                   |
| 1.5          | 4.25              | 109.5          | 4.25              | 18.06          | 1876           | 104                   |
| 2.0          | 5.67              | 109.5          | 5.67              | 31.67          | 942            | 29                    |
| 2.5          | 7.09              | 109.5          | 7.09              | 49.71          | 603            | 12                    |
| 3.0          | 8.51              | 109.5          | 8.51              | 72.25          | 419            | 5.8                   |



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## General data

|                                  |                                       |
|----------------------------------|---------------------------------------|
| Product name                     | COLOSSAL 900mm 830 OPAL DIR WHITE SSC |
| Technology                       | LED (3 SDCM)                          |
| Cap/Base                         | N/A                                   |
| Housing                          | Aluminium                             |
| Mount                            | Ceiling surface mounting              |
| General application              | Hospitality, Office                   |
| Operating temperature range (°C) | 5°C...+25°C                           |
| ETIM Class                       | EC002892                              |
| Warranty                         | 5 years                               |

## Optical data

|                                   |            |
|-----------------------------------|------------|
| Fixture luminous flux (lm)        | 10375      |
| Luminaire efficacy (lm/W)         | 135        |
| Correlated colour temperature (k) | 3000       |
| Colour Code                       | 830        |
| Light colour                      | Warm White |
| CRI (Ra)                          | 80         |
| Colour Variation Initial (SDCM)   | SDCM3      |
| Distribution type                 | Symmetric  |
| Glare control                     | < 22       |
| Photobiological Risk Group        | RG0        |

## Electrical data

|                                                                  |                             |
|------------------------------------------------------------------|-----------------------------|
| Total power consumption (W)                                      | 76.8                        |
| Current (A)                                                      | 450                         |
| 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                                                   | SylSmart SSC                |
| Drive current (mA)                                               | 450                         |
| Inrush Current (A)                                               | 25                          |
| Inrush Duration (µs)                                             | 280                         |
| 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                                  | 24                          |
| Max. products per 13A C Breaker                                  | 31                          |
| Max. products per 16A C Breaker                                  | 40                          |
| Max. products per 20A C Breaker                                  | 49                          |
| Max. products per 10A B Breaker                                  | 13                          |
| Max. products per 16A B Breaker                                  | 24                          |
| Max. products per 20A B Breaker                                  | 30                          |
| Connectable conductor cross section - Min (mm²)                  | 1.5                         |
| Connectable conductor cross section - Max (mm²)                  | 2.5                         |

## Lifetime data

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

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## 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) | 888                              |
| Weight (kg)                   | 16.6                             |

## Packaging

|                                       |                |
|---------------------------------------|----------------|
| Product EAN number                    | 5025768712366  |
| Packaging single length / height (cm) | 14.0           |
| Packaging single width (cm)           | 96.0           |
| Packaging single depth (cm)           | 96.0           |
| DUN14 (inner)                         | 05025768712366 |
| Units per outer package               | 1              |
| Packaging outer length / height (cm)  | 14.0           |
| Packaging outer width (cm)            | 96.0           |
| Packaging outer depth (cm)            | 96.0           |

## Safety data

|                                  |      |
|----------------------------------|------|
| Glow Wire Test (°C)              | 650  |
| Optimal operating condition (°C) | 5-25 |