



INO 1200 circle vertical suspended

034-3514538H

PROJECT _____

TYPE _____

NOTES _____

QUANTITY _____

DATE _____

GENERAL

Ceiling _____
 Suspended _____
 black _____
 10700 lm/m _____
 IP20 _____
 indirect 2910 lm _____
 direct 2910 lm _____
 total 5820 lm _____
 RAL9005 ^a _____

LED

3000 K _____
 CRI ≥ 80 _____
 L90 / 50000 h _____
 photobio. safety RG 0 - no Risk _____
 initial ≤ 3 MacAdam _____

OPTICAL

High Performance Opal _____

PHYSICAL

Cable 2000 mm _____
 diameter 1165 mm _____
 height 36 mm _____

ELECTRICAL

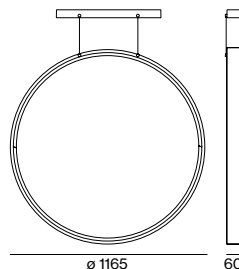
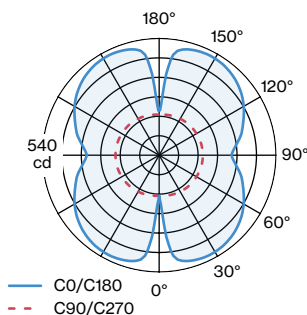
DALI-2 _____
 51 W _____
 114 lm/W _____
 1 DALI Addr. _____
 PC1 220-240V _____
 94 W/m _____

^a RAL Palette colors may deviate slightly due to production conditions.



Ring-shaped light fitting in rolled and seamlessly welded extruded aluminium profile; surface black powder coated; vertical suspended luminaire with 2000mm cable suspension; height adjustment without tools; incl. transparent feed; electronic operating unit installed in the canopy; light colour 3000 K; Binning initial ≤ 3 MacAdam; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; HPO (High Performance Opal) cover for uniform illumination; due to special material composition with increased transmission and diffusion; + 15% luminous efficiency compared to standard opal covers; inwards facing emission characteristics; canopy with 2 cable openings and plug-in terminal for through wiring; degree of protection IP20; PC1 220-240V; photobiological safety according to IEC 62471 risk group RG 0 - no Risk; internal wiring in light halogen free; incl. DALI-2 converter;

Light Distribution





INO 1200 circle vertical suspended

034-3514538H

Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|--------------------------------------|-----------------------|
| B10 | 7 |
| B13 | 10 |
| B16 | 12 |
| B20 | 14 |
| C10 | 10 |
| C13 | 20 |
| C16 | 24 |
| C20 | 28 |

Maintenance Factors

| Operating Time [h] | 10 000 | 20 000 | 30 000 | 40 000 | 50 000 |
|--------------------|--------|--------|--------|--------|--------|
| LLMF | 0.98 | 0.95 | 0.93 | 0.91 | 0.9 |
| LSF | 1 | 1 | 1 | 1 | 1 |

| | | | |
|------------------|--|-------------------|---------------------------------|
| MF | $LMF \times RSMF \times LLMF \times LSF$ | RSMF ^a | Room Surface Maintenance Factor |
| MF | Maintenance Factor | LLMF | Lamp Lumens Maintenance Factor |
| LMF ^a | Luminaire Maintenance Factor | LSF | Lamp Survival Faktor |

^a According to "CIE 97, Maintenance of indoor electric lighting systems", 2005, ISBN 3-900-734-34-8. The values must be determined by the planner.