

INO 1000 square

suspended

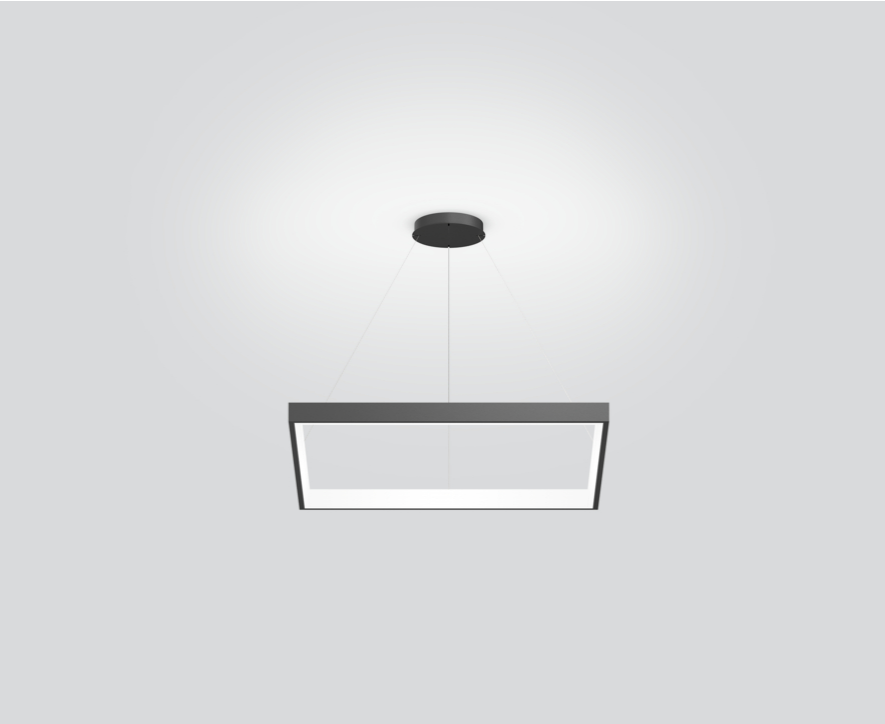
034-4443438H



Project / Type

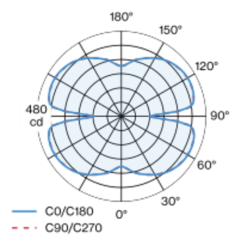
Notes

Count / Date

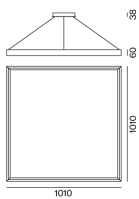


Square light fitting made of aluminium; seamlessly welded; surface black powder coated; suspended luminaire with 2000mm cable suspension (canopy central); height adjustment without tools; incl. transparent feed; electronic operating unit installed in the canopy; light colour 2700 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90 ; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; HPO (High Performance Opal) cover for uniform illumination; inwards facing emission characteristics; direct/indirect light emission for additional accentuation of the ceiling; canopy with 2 cable openings and plug-in terminal for through wiring; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 converter; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



Product drawing



General

Ceiling , Suspended
black , RAL 9005 ¹
IP20
indirect 2440 lm
direct 2440 lm
total 4880 lm

LED

2700 K
CRI ≥ 90
L90 / 50000 h
initial MacAdam ≤ 3 SDCM
 R_g : 101 , R_f : 90 , $R_{f(1-5)}$: 88
MR 0.51
MDER 0.46

Optical

High Performance Opal
opal (lambertsch)
 $P_{stLM} \leq 1.0$ ²
 $SVM \leq 0.4$ ²

Electrical

DALI-2
220-240 V
system 52 W
system 94 lm/W³
PC1
1 DALI Addr.

Physical

cable 2000 mm
length 1010 mm
width 1010 mm
height 60 mm
4.5 kg

¹ RAL code ² Value of containing product at full load (undimmed)
³ incl. consideration of optical losses, internal control unit losses
& operating device efficiency

Installation instructions



Lighting calculator



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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.98	0.96	0.94	0.92	0.9
LSF	1	1	1	1	1
MF	LMF × RSMF × LLMF × LSF		RSMF ^a	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF ^a	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

^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.

Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	10
B13	13
B16	16
B20	21
C10	16
C13	21
C16	26
C20	35

