

VELA 450 direct / indirect power

suspended
073-144461XK



Project / Type _____

Notes _____

Count / Date _____



IP 40 X-PERT

General

Ceiling , Suspended _____

special colours _____

IP40 _____

indirect 812 lm _____

direct 2080 lm _____

total 2890 lm _____

LED

4000 K _____

CRI \geq 80 _____

L90 / 50000 h _____

initial MacAdam \leq 3 SDCM _____

MR 0.72 _____

MDER 0.66 _____

Optical

Microprismatic _____

microprismatic _____

UGR \leq 19 , $\geq 65^\circ$ < 3000 cd/m² _____

PstLM \leq 1.0 ¹ _____

SVM \leq 0.4 ¹ _____

Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface special colours powder coated; highly reflective coating for improved efficiency; suspended luminaire with adjustable pendant rod mounting (chrome) 1000mm, feed in rod; microprismatic PMMA cover; completely homogeneous illumination; UGR \leq 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above $65^\circ \leq 3000$ cd/m²; direct / indirect radiation characteristic for additional accentuation of the ceiling; light colour 4000 K; binning initial MacAdam \leq 3 SDCM; CRI \geq 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; canopy with 2 cable openings and plug-in terminal for through wiring; degree of protection IP40; PC1; 220-240 V; internal wiring in light halogen free; incl. converter, non dimmable; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Electrical

non DIM _____

220-240 V _____

system 21.1 W _____

system 137 lm/W² _____

PC1 _____

Physical

rod 1000 mm _____

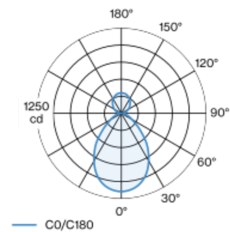
diameter 450 mm _____

height 87 mm _____

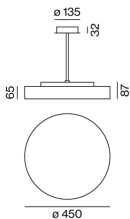
4.1 kg _____

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

Light distribution



Product drawing



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	0.91	0.9
LSF	1	1	1	1	1

MF

MF

LMF^a

$LMF \times RSMF \times LLMF \times LSF$

Maintenance Factor

Luminaire Maintenance Factor

RSMF^a

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

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	31
B13	40
B16	50
B20	62
B25	78
C10	52
C13	67
C16	85
C20	104
C25	130

