

# VELA 450 direct / indirect power

suspended  
073-1245D38K



Project / Type \_\_\_\_\_

Notes \_\_\_\_\_

Count / Date \_\_\_\_\_



Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface black powder coated; highly reflective coating for improved efficiency; suspended luminaire with 1500mm cable suspension; with integrated toolless suspension height adjustment on the luminaire; incl. feed (black); microprismatic PMMA cover; completely homogeneous illumination; UGR ≤ 19; direct / indirect radiation characteristic for additional accentuation of the ceiling; light colour tunable white; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 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;

**General**

Ceiling | Suspended \_\_\_\_\_

black | RAL 9005 <sup>1</sup> \_\_\_\_\_

IP40 \_\_\_\_\_

indirect 1250 lm | direct 3210 lm \_\_\_\_\_

total 4460 lm \_\_\_\_\_

**LED**

tunable white | 2700 K - 6500 K \_\_\_\_\_

CRI ≥ 80 \_\_\_\_\_

L90 / 50000 h \_\_\_\_\_

initial MacAdam ≤ 3 SDCM \_\_\_\_\_

MR 0.48 | MDER 0.44 \_\_\_\_\_

**Optical**

Microprismatic | microprismatic \_\_\_\_\_

UGR ≤ 19 \_\_\_\_\_

PstLM ≤ 1.0 <sup>2</sup> | SVM ≤ 0.4 <sup>2</sup> \_\_\_\_\_

**Electrical**

DALI-2 DT8 | 1 DALI Addr. \_\_\_\_\_

PC1 | 220-240 V \_\_\_\_\_

system 36 W \_\_\_\_\_

system 124 lm/W <sup>3</sup> \_\_\_\_\_

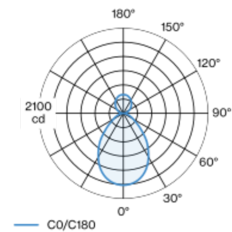
**Physical**

cable 1500 mm \_\_\_\_\_

diameter 450 mm | height 87 mm \_\_\_\_\_

3.8 kg \_\_\_\_\_

## Light distribution



## Product drawing



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)  
<sup>3</sup> 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 <sup>a</sup>	Room Surface Maintenance Factor	
MF	Maintenance Factor		LLMF	Lamp Lumens Maintenance Factor	
LMF <sup>a</sup>	Luminaire Maintenance Factor		LSF	Lamp Survival Factor	

<sup>a</sup> 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	13
B13	20
B16	24
B20	30
C10	26
C13	40
C16	48
C20	60

