

# VELA 450 direct / indirect soft

surface

073-114763XK



Project / Type

Notes

Count / Date



IP 40

220-240V

X-PERT

X-PERT

### General

Ceiling / Wall , Surface

special colours

IP40

indirect 87 lm

direct 2150 lm

total 2240 lm

### LED

4000 K

CRI ≥ 80

L90 / 50000 h

photobio. safety RG 0 - no Risk

initial MacAdam ≤ 3 SDCM

MR 0.72

MDER 0.66

### Optical

Microprismatic

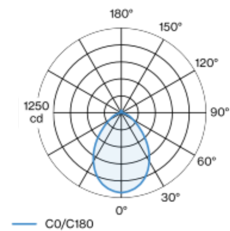
UGR < 19 , ≥65° <3000 cd/m²

PstLM ≤ 1.0 <sup>1</sup>

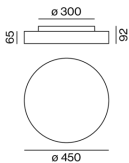
SVM ≤ 0.4 <sup>1</sup>

Round luminaire housing in aluminium, rolled profile, seamlessly welded; surface special colours powder coated; highly reflective coating for improved efficiency; suitable for wall or ceiling mounting; convenient quick mounting system without tools; microprismatic PMMA cover; completely homogeneous illumination; UGR ≤ 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m²; direct / indirect radiation characteristic for additional accentuation of the ceiling; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 80; min. 90% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; luminaire with 2 cable openings and plug-in terminal for through wiring; degree of protection IP40; 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 source replaceable by an authorized professional; control gear replaceable by an authorized professional;

### Light distribution



### Product drawing



### Electrical

DALI-2

16.7 W

PC1 220-240V

134 lm/W

1 DALI Addr.

### Physical

diameter 450 mm

height 92 mm

3.8 kg

<sup>1</sup> Value of containing product at full load (undimmed)

### Installation instructions



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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	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 Faktor	

<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	21
B13	28
B16	35
B20	44
C10	35
C13	46
C16	58
C20	73

