

# VELA 900 direct

suspended

073-1271538K



|                |  |
|----------------|--|
| Project / Type |  |
| Notes          |  |
| Count / Date   |  |



|      |          |        |     |       |     |       |        |
|------|----------|--------|-----|-------|-----|-------|--------|
| IP40 | 220-240V | X-PERT | UGR | cd/m² | CRI | MACOR | X-PERT |
|------|----------|--------|-----|-------|-----|-------|--------|

## General

|                              |
|------------------------------|
| Ceiling , Suspended          |
| black , RAL9005 <sup>1</sup> |
| IP40                         |
| 9020 lm                      |

## LED

|                                 |
|---------------------------------|
| 3000 K                          |
| CRI ≥ 80                        |
| L90 / 50000 h                   |
| photobio. safety RG 0 - no Risk |
| initial MacAdam ≤ 3 SDCM        |
| MR 0.54                         |
| MDER 0.49                       |

## Optical

|                             |
|-----------------------------|
| Microprismatic              |
| microprismatic              |
| UGR < 19 , ≥65° <3000 cd/m² |
| PstLM ≤ 1.0 <sup>2</sup>    |
| SVM ≤ 0.4 <sup>2</sup>      |

## Electrical

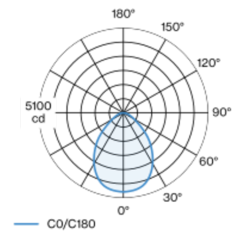
|              |
|--------------|
| DALI-2       |
| 71 W         |
| PC1 220-240V |
| 127 lm/W     |
| 1 DALI Addr. |

## Physical

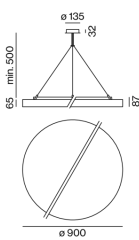
|                 |
|-----------------|
| cable 1500 mm   |
| diameter 900 mm |
| height 87 mm    |
| 12.3 kg         |

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 tool-less suspension height adjustment; incl. feed (black); microprismatic PMMA cover; completely homogeneous illumination; UGR ≤ 19; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above 65° ≤ 3000 cd/m²; light colour 3000 K; 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 220-240V; 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



<sup>1</sup> RAL code <sup>2</sup> Value of containing product at full load (undimmed)

## 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   | 0.95   | 0.93   | 0.91   | 0.9    |
| LSF                | 1      | 1      | 1      | 1      | 1      |

MF

MF

LMF<sup>a</sup>

LMF × RSMF × LLMF × LSF

Maintenance Factor

Luminaire Maintenance Factor

RSMF<sup>a</sup>

LLMF

LSF

Room Surface Maintenance Factor

Lamp Lumens Maintenance Factor

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                            | 9                  |
| B13                            | 12                 |
| B16                            | 15                 |
| B20                            | 19                 |
| C10                            | 15                 |
| C13                            | 20                 |
| C16                            | 25                 |
| C20                            | 31                 |

