# **SONO** LOOP 450 IP54 surface DIRECT

871-8146517O

| | |
|---|---|
| **PROJECT** | |
| **TYPE** | |
| **NOTES** | |
| **QUANTITY** | |
| **DATE** | |

**GENERAL**

Ceiling / Wall
Surface
white
IP54
IK07
2850 lm
RAL9010 [a]

**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**

Opal

**PHYSICAL**

diameter 450 mm
height 80 mm
4.1 kg

**ELECTRICAL**

non DIM
23.2 W
123 lm/W
PC1 220-240V

[a] RAL Palette colors may deviate slightly due to production conditions.

IP54 | IK 07 | 220-240V | X-PERT

Round luminaire housing in die-cast aluminium; attached ring in rolled and seamlessly welded aluminium profile; surface white powder coated; suitable for wall or ceiling mounting; time saving installation through snap-in mounting system; LED board highly reflective lacquered for higher efficiency; same luminance for all size versions; 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; completely homogeneously illuminated, satin PMMA cover; luminaire with 2 cable openings and plug-in terminal for through wiring; degree of protection IP54 (wall mounted) / IP50 (ceiling mounted); PC1 220-240V; photobiological safety according to IEC 62471 risk group RG 0 - no Risk; shock resistance IK07; internal wiring in light halogen free; incl. converter, non dimmable; light source not replaceable; control gear replaceable by an authorized professional;

## Light Distribution

['871-8146517O-010'] The technical data represent rated values for an ambient temperature of 25°C. The data values for the luminous flux are initially subject to a tolerance of +/- 10%, those for the electrical connected load are initially subject to a tolerance of +/- 10%, and those for the colour temperature are initially subject to a tolerance of +/- 150 K. No liability is assumed for typographical or printing errors. The general terms and conditions of XAL GmbH apply.

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## Circuit Breaker Types

| Automatic Circuit Breaker Type | Number of Fixtures |
|---|---|
| B10 | 25 |
| B13 | 32 |
| B16 | 39 |
| B20 | 49 |
| C10 | 41 |
| C13 | 53 |
| C16 | 65 |
| C20 | 81 |

## 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 | 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 Faktor |

[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.


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