

# SONIC direct / indirect

suspended

059-7221676P



Project / Type

Notes

Count / Date



Conical light housing in die-cast aluminium; surface dark grey powder coated; suspended luminaire with 1500mm cable suspension; with integrated toolless suspension height adjustment on the luminaire; incl. feed (black); direct/indirect illumination characteristic; indirect light component with special PCBs for increased luminous flux and maximum ceiling illumination; indirect component covered with opal cover; direct lighting portion: micro prismatic PMMA cover; perfectly uniform illumination through use of a diffuse polycarbonate-based film; better light dispersion to transparency ratio; UGR  $\leq 19$ ; 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; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; canopy with 2 cable openings and plug-in terminal for through wiring; luminaire with integrated infrared presence and brightness sensor (ESSENTIAL sensor); automatic light control for individually adjustable brightness; variable automatic shutdown; cable feed out to contact a push-button (230 VAC) to override the sensor; sound absorbing accessories available: acoustic elements made of high quality, self-supporting, at least 50 % recycled PET felt (high acoustic performance by doubling the material) or as an acoustically effective lampshade (large selection of colours) with sound absorbing properties; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;



## General

Ceiling | Suspended

dark grey | RAL 7021<sup>1</sup>

IP20

indirect 5230 lm | direct 5290 lm

total 10520 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  $\leq 19$

PstLM  $\leq 1.0$ <sup>2</sup> | SVM  $\leq 0.4$ <sup>2</sup>

## Electrical

stand alone ESSENTIAL sensor

brightness & presence

PC1 | 220-240 V

system 69 W

system 152 lm/W<sup>3</sup>

## Physical

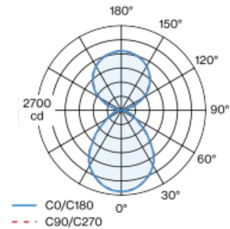
cable 1500 mm (min. 500 mm)

diameter 500 mm | height 52 mm

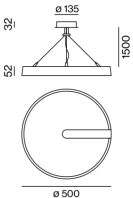
5.5 kg

<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

## Light distribution



## Product drawing



## Installation instructions



## Lighting calculator





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

## Acoustic accessories

### ABSORBER RING

COLOUR	Ø (MM)	ARTICLE NUMBER(S)
white	1280	059-771111W
marble grey	1280	059-771111D
black	1280	059-771111L



### SOUNDCAP

COLOUR	Ø (MM)	ARTICLE NUMBER(S)
marble grey	527	059-773111D
felt grey	527	059-773111G
black	527	059-773111L
white	527	059-773111W
acoustic special colours	527	059-773111X

