

# FINA SUPPORT opal

011-129AL0180



Project / Type

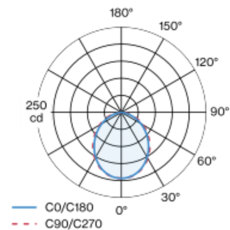
Notes

Count / Date



Miniature rectangular lamp made of aluminium; angular design; surface lacquered in black; plug and play electrical connector system for toolless mounting; different mechanical and electrical poles available - for flexible system design (available as an accessory); completely homogeneously illuminated, satinised PMMA cover; light colour 3000 K; binning initial MacAdam  $\leq 3$  SDCM; CRI  $\geq 97$ ; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; light inset rotatable; degree of protection IP20; PC3; 24 V; accessories are listed separately; light source replaceable by an authorized professional;

## Light distribution



## Product drawing



### General

Showcase | Standing

black | RAL 9021<sup>1</sup>

IP20

Interior

489 lm

1200 lm/m

optical inset 74 lm/W<sup>2</sup>

### LED

3000 K

CRI  $\geq 97$

L85 / 50000 h

initial MacAdam  $\leq 3$  SDCM

R<sub>g</sub>: 99 | R<sub>r</sub>: 96 | R<sub>t(1-5)</sub>: 97

MR 0.68 | MDER 0.61

### Optical

Opal | opal (lambertsch)

### Electrical

excl. driver

PC3 | 24 V

fixture 8.8 W

optical inset 6.7 W

22 W/m

24 V

### Physical

length 446 mm | width 9 mm | height 9 mm

0.1 kg

<sup>1</sup> RAL code <sup>2</sup> incl. consideration of optical losses

## Installation instructions



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## Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.979	0.955	0.931	0.908	0.885
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 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.





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Mounting accessories

MOUNTING POLE L

TYPE	COLOUR	ARTICLE NUMBER(S)
mechanical   180	white aluminium	011-9121116
mechanical   180	tar black	011-9121118
feeder / mechanical   180	white aluminium	011-9121136
feeder / mechanical   180	tar black	011-9121138
mechanical   200	white aluminium	011-9121216
mechanical   200	tar black	011-9121218
feeder / mechanical   200	white aluminium	011-9121236
feeder / mechanical   200	tar black	011-9121238
mechanical   300	white aluminium	011-9121316
mechanical   300	tar black	011-9121318
feeder / mechanical   300	white aluminium	011-9121336
feeder / mechanical   300	tar black	011-9121338
mechanical   180	white aluminium	011-9124116
mechanical   180	tar black	011-9124118
feeder / mechanical   180	white aluminium	011-9124136
feeder / mechanical   180	tar black	011-9124138
mechanical   200	white aluminium	011-9124216
mechanical   200	tar black	011-9124218
feeder / mechanical   200	white aluminium	011-9124236
feeder / mechanical   200	tar black	011-9124238
mechanical   300	white aluminium	011-9124316
mechanical   300	tar black	011-9124318
feeder / mechanical   300	white aluminium	011-9124336
feeder / mechanical   300	tar black	011-9124338
mechanical   180	white aluminium	011-9125116
mechanical   180	tar black	011-9125118
feeder / mechanical   180	white aluminium	011-9125136
feeder / mechanical   180	tar black	011-9125138
mechanical   200	white aluminium	011-9125216
mechanical   200	tar black	011-9125218
feeder / mechanical   200	white aluminium	011-9125236
feeder / mechanical   200	tar black	011-9125238
mechanical   300	white aluminium	011-9125316
mechanical   300	tar black	011-9125318
feeder / mechanical   300	white aluminium	011-9125336
feeder / mechanical   300	tar black	011-9125338
mechanical   180	white aluminium	011-9126116
mechanical   180	tar black	011-9126118
feeder / mechanical   180	white aluminium	011-9126136
feeder / mechanical   180	tar black	011-9126138
mechanical   200	white aluminium	011-9126216
mechanical   200	tar black	011-9126218
feeder / mechanical   200	white aluminium	011-9126236
feeder / mechanical   200	tar black	011-9126238
mechanical   300	white aluminium	011-9126316
mechanical   300	tar black	011-9126318
feeder / mechanical   300	white aluminium	011-9126336
feeder / mechanical   300	tar black	011-9126338
mechanical   180	white aluminium	011-9127116
mechanical   180	tar black	011-9127118
feeder / mechanical   180	white aluminium	011-9127136
feeder / mechanical   180	tar black	011-9127138
mechanical   200	white aluminium	011-9127216
mechanical   200	tar black	011-9127218
feeder / mechanical   200	white aluminium	011-9127236
feeder / mechanical   200	tar black	011-9127238
mechanical   300	white aluminium	011-9127316
mechanical   300	tar black	011-9127318
feeder / mechanical   300	white aluminium	011-9127336
feeder / mechanical   300	tar black	011-9127338
mechanical   180	white aluminium	011-9128116
mechanical   180	tar black	011-9128118
feeder / mechanical   180	white aluminium	011-9128136
feeder / mechanical   180	tar black	011-9128138
mechanical   200	white aluminium	011-9128216
mechanical   200	tar black	011-9128218
feeder / mechanical   200	white aluminium	011-9128236
feeder / mechanical   200	tar black	011-9128238
mechanical   300	white aluminium	011-9128316
mechanical   300	tar black	011-9128318
feeder / mechanical   300	white aluminium	011-9128336
feeder / mechanical   300	tar black	011-9128338



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## Mounting accessories

### MOUNTING POLE T

TYPE	COLOUR	ARTICLE NUMBER(S)
mechanical / electrical   180	white aluminium	011-9122126
mechanical / electrical   180	tar black	011-9122128
mechanical / electrical   200	white aluminium	011-9122226
mechanical / electrical   200	tar black	011-9122228
mechanical / electrical   300	white aluminium	011-9122326
mechanical / electrical   300	tar black	011-9122328



## Mounting accessories

### MOUNTING POLE Y

TYPE	COLOUR	ARTICLE NUMBER(S)
mechanical / electrical   180	white aluminium	011-9123126
mechanical / electrical   180	tar black	011-9123128
feeder / mechanical   180	white aluminium	011-9123136
feeder / mechanical   180	tar black	011-9123138
mechanical / electrical   200	white aluminium	011-9123226
mechanical / electrical   200	tar black	011-9123228
feeder / mechanical   200	white aluminium	011-9123236
feeder / mechanical   200	tar black	011-9123238
mechanical / electrical   300	white aluminium	011-9123326
mechanical / electrical   300	tar black	011-9123328
feeder / mechanical   300	white aluminium	011-9123336
feeder / mechanical   300	tar black	011-9123338



## Electrical accessories

### POWER SUPPLY 24V EU

L-W-H (MM)	ARTICLE NUMBER(S)
130-43-30	011-9212110
195-43-30	011-9212210
220-43-30	011-9212310
130-43-30	011-9212130
195-43-30	011-9212230
220-43-30	011-9212330



### POWER SUPPLY 24V UL

TYPE	L-W-H (MM)	ARTICLE NUMBER(S)
	153-41-32	011-9282110
	210-40-30	011-9282210
60 W	250-40-30	011-9282310
	176-45-32	011-9282320
	176-45-32	011-9282330



## Electrical accessories

### EXTENSION CABLE

TYPE	ARTICLE NUMBER(S)
1 × socket / 1 × plug	011-9222120
1 × socket / 1 × plug	011-9222140
1 × socket / 1 × plug	011-9222180

