

# FINA SUPPORT opal

011-129AA018O



Project / Type

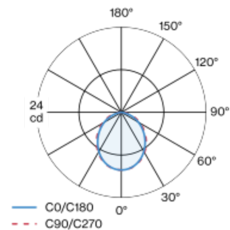
Notes

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

41 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(1-15)</sub>: 97

MR 0.68 | MDER 0.61

### Optical

Opal | opal (lambertsch)

### Electrical

excl. driver

PC3 | 24 V

fixture 0.7 W

optical inset 0.6 W

22 W/m

24 V

### Physical

length 61 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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Notes

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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       |





## 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 x socket / 1 x plug | 011-9222120       |
| 1 x socket / 1 x plug | 011-9222140       |
| 1 x socket / 1 x plug | 011-9222180       |

