

# MUSE DOUBLE LIGHT

## acoustic

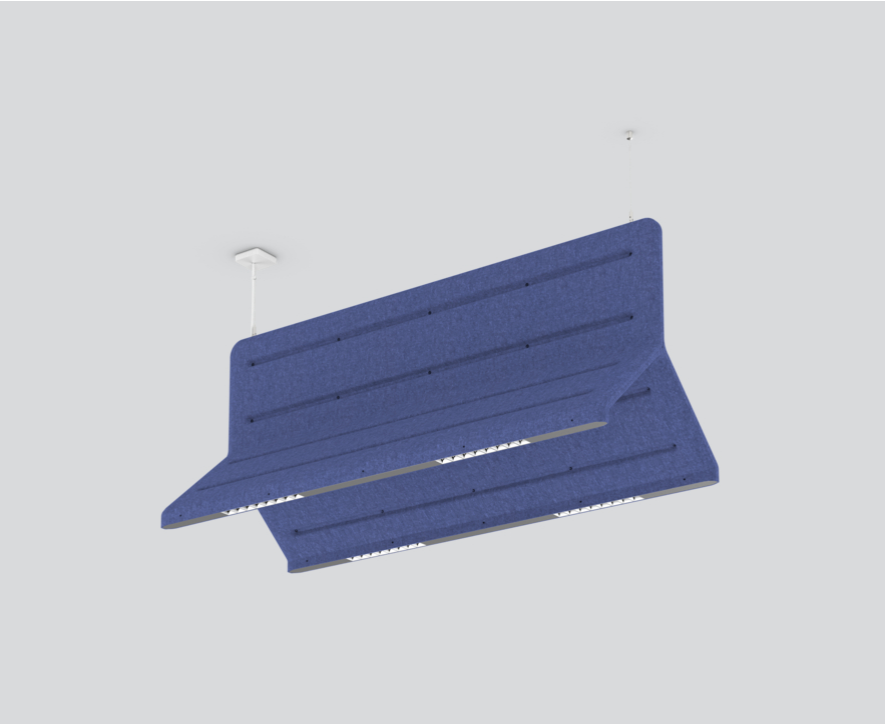
suspended  
091-122163PF



Project / Type \_\_\_\_\_

Notes \_\_\_\_\_

Count / Date \_\_\_\_\_

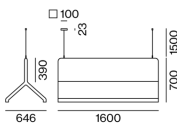


Luminaire body made of high quality, self-supporting PET felt with sound absorbing properties, consisting of at least 50 % post-consumer recycled PET; high quality visual and tactile surface, bright blue; colour may deviate; constructed of 2 shells to form cavities that improve acoustic performance; large sound absorbing surface; suspended luminaire with 1500mm cable suspension; with integrated toolless suspension height adjustment on the luminaire; spring clip attachment to the luminaire; freely positionable; incl. transparent feed; optimised for the illumination of 2 office workstations opposite each other; light inset made from extruded profile for improved thermal management; 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; high gloss reflector with faceted design; blind covers in gray; UGR  $\leq 19$ ; VDU compatible workplace luminaire according to DIN EN 12464-1; luminance above  $65^\circ \leq 1500$  cd/m<sup>2</sup>; degree of protection IP20; PC1; 220-240 V; internal wiring in light halogen free; incl. DALI-2 converter; light source not replaceable; control gear replaceable by an authorized professional;

### Light distribution



### Product drawing



### General

Ceiling , Suspended \_\_\_\_\_

bright blue \_\_\_\_\_

IP20 \_\_\_\_\_

4400 lm \_\_\_\_\_

### LED

4000 K \_\_\_\_\_

CRI  $\geq 80$  \_\_\_\_\_

L90 / 50000 h \_\_\_\_\_

initial MacAdam  $\leq 3$  SDCM \_\_\_\_\_

MR 0.72 \_\_\_\_\_

MDER 0.66 \_\_\_\_\_

### Optical

symmetric \_\_\_\_\_

UGR  $< 19$  ,  $\geq 65^\circ < 1500$  cd/m<sup>2</sup> \_\_\_\_\_

PstLM  $\leq 1.0$  <sup>1</sup> \_\_\_\_\_

SVM  $\leq 0.4$  <sup>1</sup> \_\_\_\_\_

### Electrical

DALI-2 \_\_\_\_\_

220-240 V \_\_\_\_\_

system 41 W \_\_\_\_\_

system 107 lm/W<sup>2</sup> \_\_\_\_\_

PC1 \_\_\_\_\_

1 DALI Addr. \_\_\_\_\_

### Physical

cable 1500 mm \_\_\_\_\_

length 1600 mm \_\_\_\_\_

width 646 mm \_\_\_\_\_

height 700 mm \_\_\_\_\_

9.5 kg \_\_\_\_\_

### Acoustics

Alpha w ( $\alpha_w$ ) up to 0.65 <sup>3</sup> \_\_\_\_\_

SAC (sound absorption class) up to C <sup>3</sup> \_\_\_\_\_

NRC up to 0.65 <sup>3</sup> \_\_\_\_\_

SAA up to 0.62 <sup>3</sup> \_\_\_\_\_

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

<sup>2</sup> FIXTURE: incl. consideration of optical losses & internal control unit losses SYSTEM: incl. consideration of optical losses, internal control unit losses & operating device efficiency.

<sup>3</sup> Acoustic data calculations based on MUSE DOUBLE LIGHT, cavity 25cm

### 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

LMF × RSMF × LLMF × LSF

MF

Maintenance Factor

LMF<sup>a</sup>

Luminaire Maintenance Factor

RSMF<sup>a</sup>

Room Surface Maintenance Factor

LLMF

Lamp Lumens Maintenance Factor

LSF

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	7
B13	10
B16	12
B20	14
C10	10
C13	20
C16	24
C20	28

### Equivalent sound absorption area (A<sub>eq</sub>)

125 HZ	250 HZ	500 HZ	1000 HZ	2000 HZ	4000 HZ
1.03	1.43	2.1	2.67	2.87	2.87

### Sound absorption coefficient (a<sub>p</sub>)

