

LINEA opal / 1 spot

wall

058-6178648CH



Project / Type

Notes

Count / Date



General

Wall | Surface

jet black | RAL 9005

IP20

indirect 3850 lm | direct 3850 lm

total 7700 lm

3200 lm/m

tilt max 89°

141 lm

LED

3000 K¹-4000 K²

CRI ≥ 90

L80 / 50000 h¹-L85 / 50000 h²

initial MacAdam ≤ 3 SDCM

R_g: 100¹-98² | R_f: 91¹-90² | R_{t(1-15)}: 89¹-88²

MR 0.59¹-0.76² | MDER 0.53¹-0.69²

Optical

High Performance Opal | flood¹-opal (lambertsch)²

PstLM ≤ 1.0² 1 3 | SVM ≤ 0.4² 1 3

beam angle 23°

Electrical

DALI-2 / DIM switch (only spotlights) | 1 DALI Addr.

PC1 | 220-240 V

system 2.2¹-70² W

system 64¹-110² lm/W ⁴

29 W/m

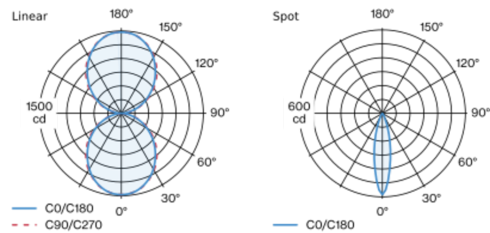
Physical

length 2510 mm | width 40 mm | height 100 mm

spotlight right

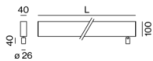
Light fitting and front cover made of extruded aluminium profile; angular design; no visible screws; surface jet black powder coated; suitable for wall mounting; homogeneous wall or ceiling illumination through uniform direct/indirect light distribution; direct and indirect light component: HPO (High Performance Opal) cover for uniform illumination; light colour 4000 K; binning initial MacAdam ≤ 3 SDCM; CRI ≥ 90; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; degree of protection IP20; PC1; 220-240 V; JUST 26 spotlight module 2,2 W / 141 lm / 3000 K right, incl. switch; incl. DALI-2 converter; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Light distribution



flood 23°			Spot		
h (m)	E0° (lx)	ø (m)	h (m)	E0° (lx)	ø (m)
1	584	0.41	1	584	0.41
2	146	0.83	2	146	0.83
3	65	1.24	3	65	1.24
4	37	1.65	4	37	1.65
5	23	2.07	5	23	2.07

Product drawing



¹ Spot ² Linear
³ Value of containing product at full load (undimmed)
⁴ incl. consideration of optical losses, internal control unit losses & operating device efficiency

Installation instructions



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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.96	0.92	0.88	0.85	0.81
LSF	1	1	1	1	1

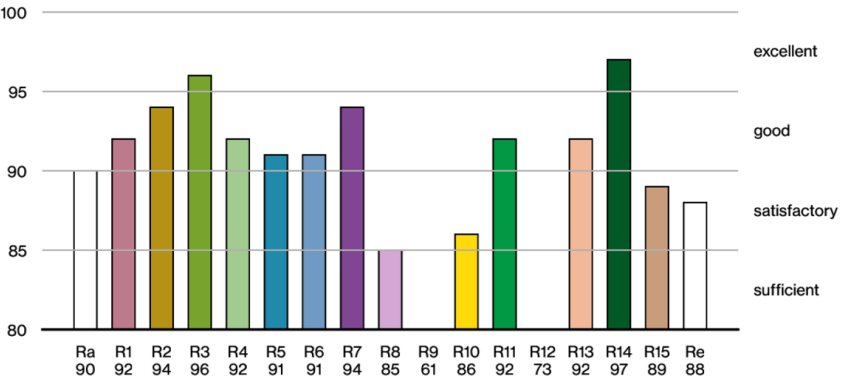
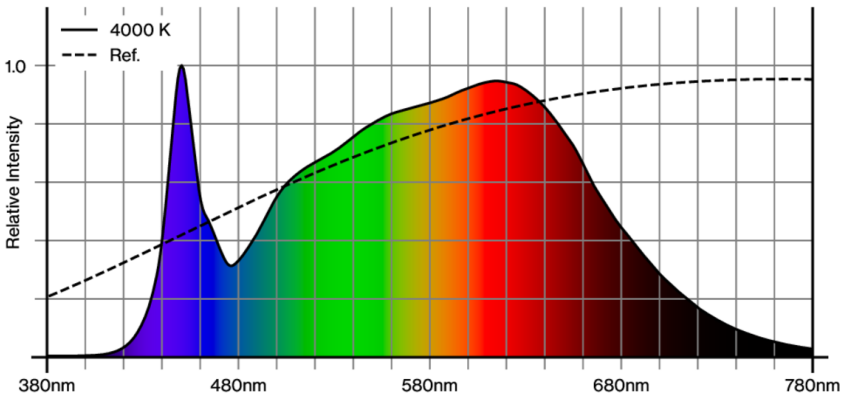
MF	LMF × RSMF × LLMF × LSF	RSMF ^a	Room Surface Maintenance Factor
MF	Maintenance Factor	LLMF	Lamp Lumens Maintenance Factor
LMF ^a	Luminaire Maintenance Factor	LSF	Lamp Survival Factor

^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.

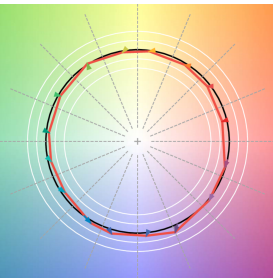
Circuit Breaker Types

Automatic Circuit Breaker Type	Number of Fixtures
B10	9
B13	12
B16	15
B20	19
C10	15
C13	20
C16	25
C20	31

Colour rendering



TM30 colour vector graphic



The black line represents the black body reference. The red line indicates the results of the test light source. The deviation from the test light source to the reference is shown and is marked by arrows. The shorter the arrows, the higher the color rendering.

