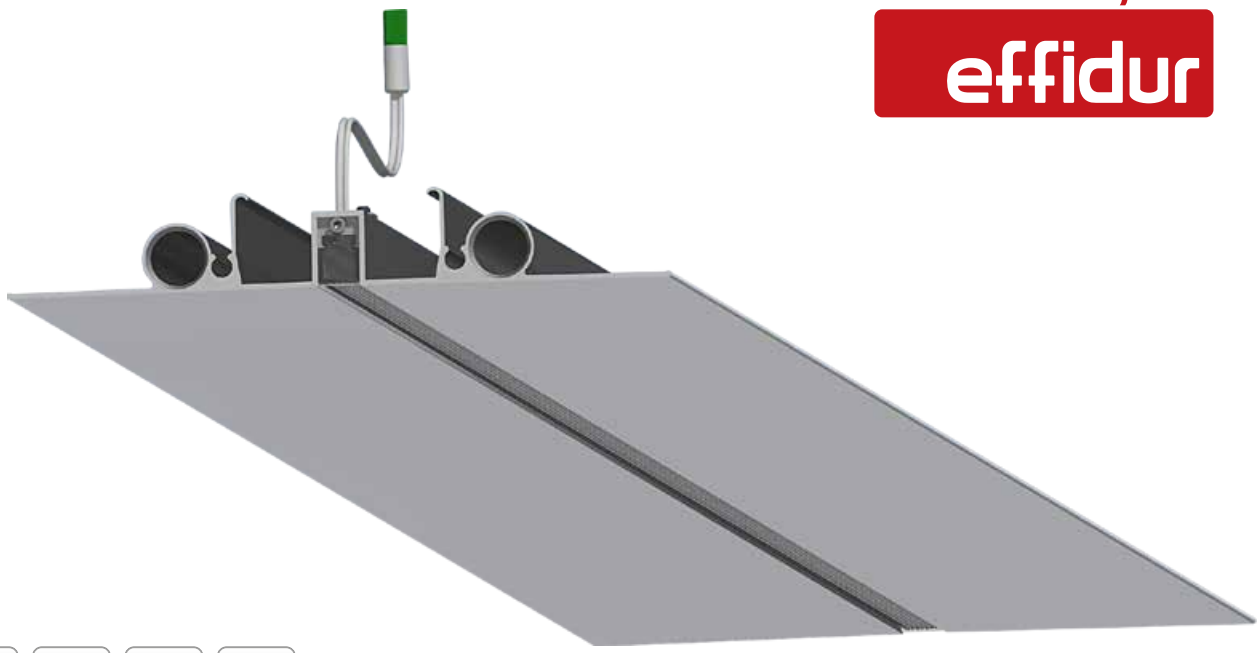
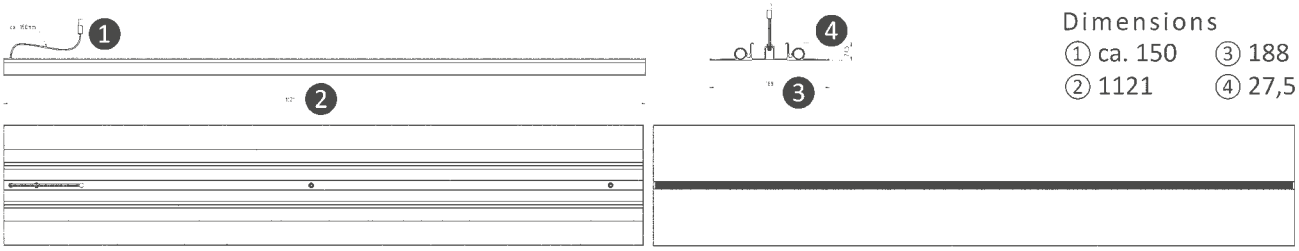


HEATING / COOLING CEILING SYSTEM » LED CEILING PROFILE
LIGHT RAIL 1121 mm RAL 9003

TENDER SPECIFICATION

Effidur HCCS Grid light rail 1121 mm RAL 9003. ceiling profile with narrow, homogeneous light rail flush mounted in the profile. Light color 4000 K. Color rendering CRI > 90. Rated luminous flux 1850 lumens. Equipped with 1 LED module. LED Flex-Strip changeable, tightest color tolerance according to 3-Step McAdam. Thermal management. Lifetime L80/B10 > 50.000 h. Lifetime LED driver > 50.000 h. THD < 10 %. Electrical connection 230 V. Switchable. Translated with www.DeepL.com/Translator (free version). Connected load 25.8 W. System efficiency 84 lm/W. External LED driver. Protection class I according to DIN EN 61140-1. Approved ambient temperature -25 °C to +50 °C. Construction: high quality extruded aluminum profile, anodized, plastic end caps. Lens made of clear prismatic profile PMMA to direct the light. Protection class IP42 according to DIN EN 60529. Luminaire wired halogen-free. Dimensions (L×W×H) 1121×188×28 mm. Weight approx. 2.5 kg. Mounting type: ceiling profile for direct installation in room-K heating and cooling ceilings. Scope of delivery: Ceiling profile ready for connection incl. driver. Mounting accessories can be purchased separately.



Dimensions
① ca. 150 ③ 188
② 1121 ④ 27,5

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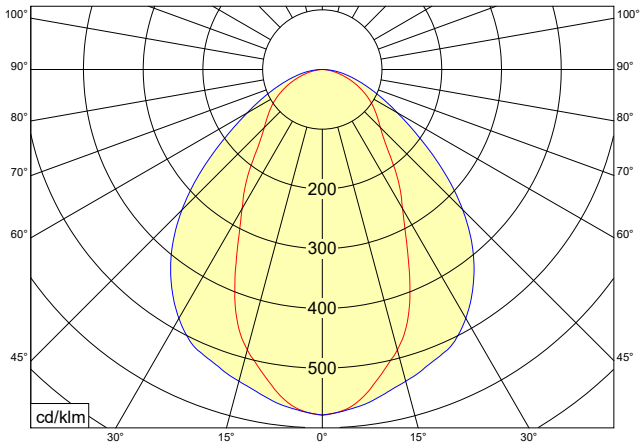
PRODUCT FEATURES AND CHARACTERISTICS

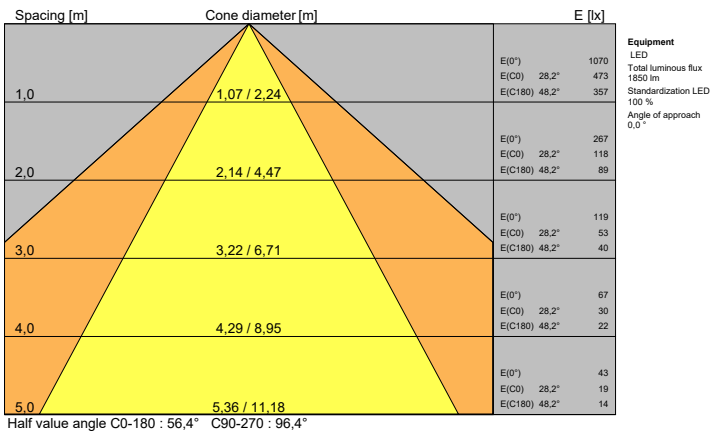
Luminaire type	Light rail Heating- cooling ceiling	**Nominal luminous flux**	3105 lm
Illuminant	LED	**Rated luminous flux**	1850 lm
Mounting type	Installation	**Color temperature**	4000 K
Input voltage AC	198 - 264V ~	**Color rendering index**	> 90
Frequency	50/60 Hz	**Housing design**	high quality Aluminum extrusion
Connected load	25,8 W	**Connection type**	Terminal on ext. LED driver
Rated power Illuminant	27,0 W	**Emergency light**	With appropriate driver
Module/ luminaire efficiency	133/84 lm/W	**Protection class**	I
Power Faktor	> 0,95	**Protection category**	IP 42
THD	< 10 %	**Ambient temperature**	-25 °C / +50 °C
Lifetime	L80/B10 > 50.000 h	**Dimensions (L×W×H)**	1121×188×28 mm
Dimming	DALI	**Weight**	2,5 kg
ESD-classification	Test severity level 1	**Luminaire glass**	Clear PMMA prismatic profile
Lifetime LED board	bis zu 72.000 h	**Risk group (IEC 62471)**	RG 1

MAXIMUM LOAD OF AUTOMATIC CIRCUIT BREAKERS

Automatic circuit breaker	**C10**	**C13**	**C16**	**C20**	**B10**	**B13**	**B16**	**B20**	**Starting current**	
Installation Ø in mm²	1,5	1,5	2,5	2,5	1,5	1,5	2,5	2,5	**I^{max}**	**Pulse duration**
Number of luminaires	40	56	68	80	24	34	41	48	30A	180 µs

LUMINOUS INTENSITY DISTRIBUTION / CONE DIAGRAM





Equipped with LED, total luminous flux 1850 lm, normalization LED 100%, angle of incidence 0,0°

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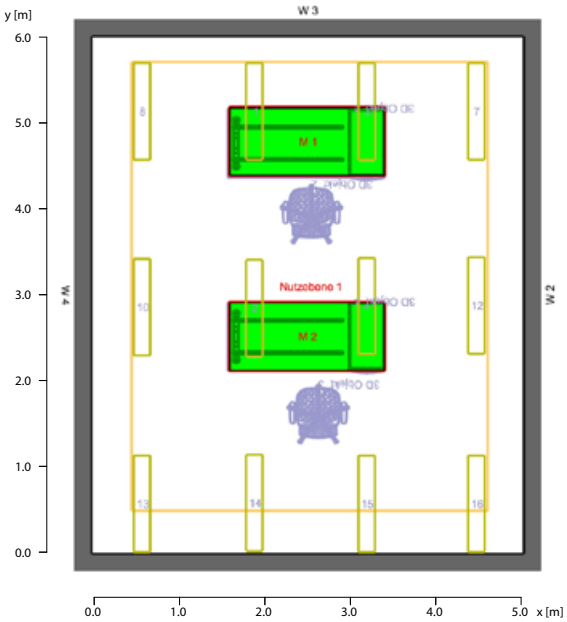
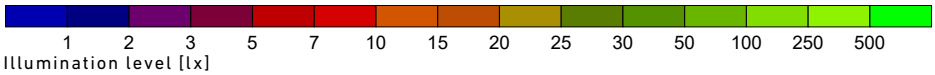
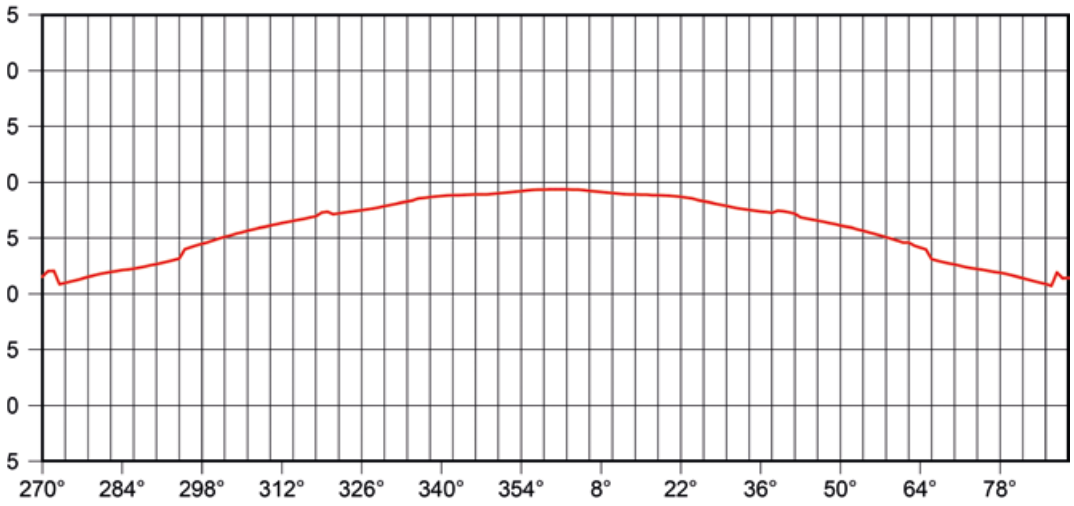
CALCULATION RESULTS, MEASURING SURFACE DESK



RELUX® light simulation tools



CALCULATION RESULTS, GLARE EVALUATION ACCORDING TO UGR



Observer position:
x = 2.50 m,
y = 2.00 m,
z = 1.30 m
Observer position:
Useful plane 1, M2
(see upper graphic, left)

Total power per area for office lighting according to DIN EN 12464-1 for 2.70 m high rooms: 10.4 W/m²		
Height of the reference plane		**0.75 m**
Average illuminance	Em	**503 lx**
Minimum illuminance	Emin	**489 lx**
Maximum illuminance	Emax	**512 lx**
Uniformity Uo	Emin/Em	**1 : 1.03 (0.97)**
Non-uniformity Ud	Emin/Emax	**1 : 1.05 (0.95)**
Maximum glare	UGR	**19,4**

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