



Project / Type _____

Notes _____

Count / Date _____



General

Ceiling , Track _____

tilt max 310° _____

rotation 360° _____

black , RAL 9005 ¹ _____

IP20 _____

231 lm _____

LED

4000 K _____

CRI ≥ 95 _____

L85 / 50000h _____

initial MacAdam ≤ 2 SDCM _____

R_g: 98 , R_f: 91 , R₍₁₋₁₅₎: 95 _____

MR 0.85 _____

MDER 0.77 _____

Optical

framing _____

beam angle 32° _____

PstLM ≤ 1.0 ² _____

SVM ≤ 0.4 ² _____

Track light made of die-cast aluminium; surface black powder coated; 360° rotatable and 310° tiltable; converter installed in aluminium spotlight housing; passive cooling of the LEDs through improved heat sink geometry; with COB (Chip on Board) technology for maximum efficiency; no appearance of multiple shadows; light colour 4000 K; binning initial MacAdam ≤ 2 SDCM; CRI ≥ 95; min. 85% of luminous flux after 50000 operating hours; energy efficient LEDs with high CRI; contoured spotlight for precise circular shape; easy adjustment by iris-shaped shielding device made of stainless steel; including high quality bi-convex glass lens; sharp object focusing through adjustable lens; focusing by means of rubberised adjusting ring on the spotlight head; degree of protection IP20; PC1; 220-240 V; adapter for toolless insertion or movement on a variety of 3-phase power tracks; adapter fixation without tools by means of knurled screw; incl. converter, dimmable with integrated potentiometer; point outlet, either in surface mounted housing or recessed housing, available as an accessory; accessories are listed separately; light source replaceable by an authorized professional; control gear replaceable by an authorized professional;

Electrical

DIM POTI _____

220-240 V _____

system 14.0 W _____

system 17 lm/W³ _____

PC1 _____

Physical

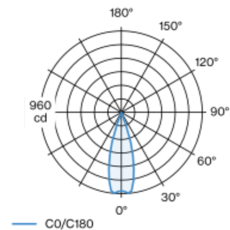
diameter 70 mm _____

height 156 mm _____

1 kg _____

tool-free fixation _____

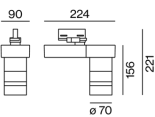
Light distribution



framing 32°

h (m)	E0° (lx)	ø (m)
1	929	0.57
2	232	1.13
3	103	1.70
4	58	2.26
5	37	2.83

Product drawing



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

Installation instructions



Lighting calculator





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Maintenance Factors

Operating Time [h]	10 000	20 000	30 000	40 000	50 000
LLMF	0.97	0.95	0.93	0.91	0.9
LSF	1	1	1	1	1

MF

LMF × RSMF × LLMF × LSF

MF

Maintenance Factor

LMF^a

Luminaire Maintenance Factor

RSMF^a

Room Surface Maintenance Factor

LLMF

Lamp Lumens 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	31
B13	40
B16	50
B20	62
B25	78
C10	52
C13	67
C16	85
C20	104
C25	130