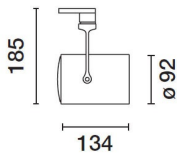


Last information update: May 2024

**Product configuration: P038**

P038: spotlight- warm white - 50° optic

**Product code**P038: spotlight- warm white - 50° optic **Attention! Code no longer in production****Technical description**

Adjustable spotlight with adapter for installation on a mains voltage track. Die-cast aluminium optical assembly and brackets, the back of the product is slightly rounded and made of a thermoplastic material. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks both for rotation about the vertical axis and tilting relative to the horizontal plane. Equipped with electronic ballast. Luminaire complete with C.O.B. technology LED unit in warm white colour 3000K. Option of installing a flat accessory that can be either an elliptical distribution refractor, a soft lens filter or a louver.

**Installation**

on an electrified track or special base

**Colour**

White (01) | Black (04) | White / Chrome (E4)

**Weight (Kg)**

0.95

**Mounting**

three circuit track

**Wiring**

product complete with electronic components

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1657.5	CRI:	80
W system:	15.4	Colour temperature [K]:	3000
lm source:	2100	MacAdam Step:	2
W source:	13	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	107.7	Lamp code:	LED
lm in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	79	Number of optical assemblies:	1
Beam angle [°]:	56°		

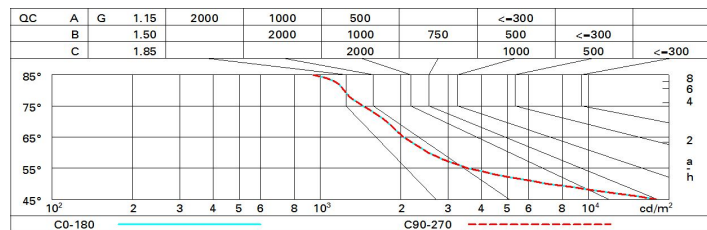
**Polar**

Imax=2131 cd		CIE		Lux			
		nL 0.79		h	d	Em	Emax
90°	180°	98-100-100-100-79		2	2.1	422	528
		UGR 17.6-17.6		4	4.3	106	132
		DIN A.61		6	6.4	47	59
		UTE 0.79A+0.00T		8	8.5	26	33
		F*1=975					
		F*1+F*2=997					
		F*1+F*2+F*3=1000					
		CIBSE BZ1					
α=56°							

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	70	67	64	62	66	63	63	61	77
1.0	74	70	68	66	69	67	67	64	81
1.5	78	75	73	71	74	72	72	69	88
2.0	80	78	77	75	77	76	75	73	92
2.5	82	80	79	78	79	78	77	75	95
3.0	83	82	81	80	80	80	79	77	97
4.0	84	83	82	82	82	81	80	78	99
5.0	84	84	83	83	82	82	81	79	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 2100 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
2H	2H	18.1	18.8	18.4	19.0	19.2	18.1	18.8	18.4	19.0	19.2
	3H	18.0	18.6	18.3	18.8	19.1	18.0	18.6	18.3	18.8	19.1
	4H	18.0	18.5	18.3	18.8	19.1	17.9	18.5	18.3	18.7	19.0
	6H	17.9	18.3	18.2	18.7	19.0	17.9	18.3	18.2	18.6	19.0
	8H	17.8	18.3	18.2	18.6	19.0	17.8	18.3	18.2	18.6	18.9
	12H	17.8	18.2	18.2	18.6	18.9	17.8	18.2	18.2	18.6	18.9
4H	2H	17.9	18.5	18.3	18.7	19.0	18.0	18.5	18.3	18.8	19.1
	3H	17.8	18.2	18.2	18.6	18.9	17.8	18.2	18.2	18.6	18.9
	4H	17.7	18.1	18.1	18.5	18.9	17.7	18.1	18.1	18.5	18.9
	6H	17.6	18.0	18.1	18.4	18.8	17.6	18.0	18.1	18.4	18.8
	8H	17.6	17.9	18.0	18.3	18.8	17.6	17.9	18.0	18.3	18.8
	12H	17.6	17.8	18.0	18.3	18.7	17.6	17.8	18.0	18.3	18.7
8H	4H	17.6	17.9	18.0	18.3	18.8	17.6	17.9	18.0	18.3	18.8
	6H	17.5	17.8	18.0	18.2	18.7	17.5	17.8	18.0	18.2	18.7
	8H	17.5	17.7	18.0	18.1	18.6	17.5	17.7	18.0	18.1	18.6
	12H	17.4	17.6	17.9	18.1	18.6	17.4	17.6	17.9	18.1	18.6
12H	4H	17.6	17.8	18.0	18.3	18.7	17.6	17.8	18.0	18.3	18.7
	6H	17.5	17.7	17.9	18.1	18.6	17.5	17.7	18.0	18.1	18.6
	8H	17.4	17.6	17.9	18.1	18.6	17.4	17.6	17.9	18.1	18.6
Variations with the observer position at spacing:											
S =	1.0H	5.6 / -11.9					5.6 / -11.9				
	1.5H	8.4 / -13.1					8.4 / -13.1				
	2.0H	10.4 / -13.6					10.4 / -13.6				