

Last information update: April 2025

**Product configuration: P638**

P638: small body - warm white - wide flood optic

**Product code**

P638: small body - warm white - wide flood optic

**Technical description**

Adjustable spotlight with adapter for installation on electrified track for a linear PCB LED lamp with a Warm White (3000K) tone. Product complete with super pure anodized aluminium reflector to guarantee wide flood light distribution. DALI ballast integrated in the body. Die-cast aluminium optical assembly. Rotates 360° about the vertical axis and tilts 90° relative to the horizontal plane. Passive heat dissipation. Option of installing a range of outdoor accessories including an anti-glare and an asymmetric screen.

**Installation**

On an electrified track or base

**Colour**

Black (04) | Black / White (47)

**Weight (Kg)**

0.9

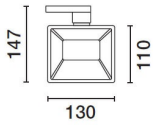
**Mounting**

three circuit track|ceiling surface

**Wiring**

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations

**Technical data**

lm system:	1275	CRI (minimum):	90
W system:	15	Colour temperature [K]:	3000
lm source:	1500	MacAdam Step:	3
W source:	12	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	85	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.) [%]:	85	Number of optical assemblies:	1
Beam angle [°]:	80° / 104°	Control:	DALI-2

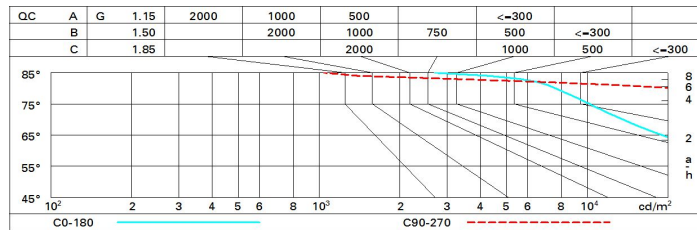
**Polar**

	Imax=617 cd		C0-180 γ=16°		<b>CIE</b> nL 0.85 63-92-99-100-85 UGR 26.6-31.7 <b>DIN</b> A.51 <b>UTE</b> 0.85C+0.00T F*1=632 F*1+F*2=916 F*1+F*2+F*3=991	<b>Lux</b>				
	h	d1	d2	Em		E <sub>max</sub>				
	1	1.7	2.6	395		595				
	2	3.4	5.1	99		149				
	3	5.1	7.7	44		66				
4	6.8	10.2	25	37						

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	62	55	49	45	53	49	48	43	51
1.0	68	61	56	52	60	55	55	50	59
1.5	75	70	66	63	69	65	64	60	70
2.0	80	76	72	70	74	71	70	66	78
2.5	83	79	76	74	78	75	74	70	83
3.0	84	81	79	77	80	78	77	73	86
4.0	86	84	82	80	82	81	79	76	89
5.0	87	85	84	82	84	82	81	78	91

Luminance curve limit



UGR diagram

Corrected UGR values (at 1500 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling	cav	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls		0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
work pl.		0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room dim		viewed crosswise					viewed endwise				
x	y										
2H	2H	20.1	27.0	26.4	27.3	27.6	30.5	31.5	30.8	31.7	32.0
	3H	20.0	26.9	26.4	27.2	27.5	30.6	31.4	30.9	31.7	32.0
	4H	20.0	26.8	26.4	27.1	27.4	30.5	31.3	30.9	31.6	32.0
	6H	25.9	26.7	26.3	27.0	27.3	30.5	31.2	30.8	31.5	31.9
	8H	25.9	26.6	26.3	27.0	27.3	30.4	31.1	30.8	31.5	31.8
12H	25.9	26.6	26.3	26.9	27.3	30.4	31.1	30.8	31.4	31.8	
4H	2H	26.7	27.5	27.1	27.8	28.1	31.5	32.3	31.9	32.6	33.0
	3H	26.7	27.4	27.1	27.8	28.1	31.8	32.4	32.2	32.8	33.1
	4H	26.7	27.3	27.1	27.7	28.1	31.8	32.4	32.2	32.7	33.1
	6H	26.7	27.2	27.1	27.6	28.0	31.7	32.3	32.2	32.7	33.1
	8H	26.6	27.1	27.1	27.5	28.0	31.7	32.2	32.1	32.6	33.0
12H	26.6	27.0	27.0	27.4	27.9	31.7	32.1	32.1	32.5	33.0	
8H	4H	26.9	27.3	27.3	27.7	28.2	31.8	32.3	32.3	32.7	33.2
	6H	26.8	27.2	27.3	27.7	28.1	31.8	32.2	32.3	32.7	33.1
	8H	26.8	27.1	27.3	27.6	28.1	31.8	32.1	32.3	32.6	33.1
	12H	26.7	27.0	27.3	27.5	28.0	31.8	32.1	32.3	32.5	33.1
12H	4H	26.8	27.3	27.3	27.7	28.2	31.8	32.2	32.2	32.6	33.1
	6H	26.8	27.2	27.3	27.6	28.1	31.8	32.1	32.3	32.6	33.1
	8H	26.8	27.1	27.3	27.6	28.1	31.8	32.1	32.3	32.5	33.1
Variations with the observer position at spacing:											
S =	1.0H	1.0 / -2.1					0.4 / -0.4				
	1.5H	1.9 / -4.5					0.7 / -1.3				
	2.0H	3.2 / -6.1					1.7 / -1.9				