

Last information update: June 2018

**spotlight - warm white wide flood optic**

**Product code**  
P689

**Technical description**

Adjustable spotlight with adapter for installation on mains voltage track for LED source with CoB technology, Warm White (3000K) emission. Electronic control gear housed inside the track-mounted power supply box. The luminaire is made of die-cast aluminium and thermoplastic. OPTI BEAM superpure aluminium reflector with high luminous efficacy and uniform distribution, wide flood optic. Features 90° inclination on the horizontal plane and 360° rotation around the vertical axis, with mechanical locking device for aiming. Passive cooling system. Possibility of installing a refractor, to be ordered separately, for elliptical light beam distribution.

**Installation**

The luminaire can be installed on a standard electrified track or on an appropriate channel incorporating an electrified track.

**Dimension (mm)**  
Ø120x197

**Colour**  
White (01) | Black (04)

**Weight (Kg)**  
1.82

**Mounting**

three circuit track|ceiling surface

**Wiring**

product inclusive of electronic components incorporated into the track-mounted box.

Complies with EN60598-1 and pertinent regulations

IP20 IP40 for optical assembly

**Product configuration: P689****Product characteristics**

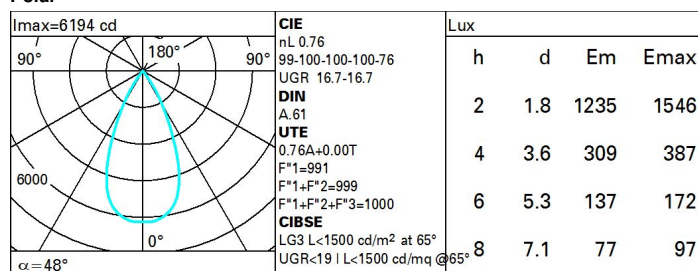
Total lighting output [Lm]: 3796  
Total power [W]: 44.8  
Luminous efficacy [Lm/W]: 84.7  
Life Time: > 50,000h - L80 - B10 (Ta 25°C)

Total luminous flux at or above an angle of 90° [Lm]: 0  
Emergency luminous flux [Lm]: /  
Voltage [V]: -  
Number of optical assemblies: 1

**Optical assembly Characteristics Type 1**

Light Output Ratio (L.O.R.) [%]: 76  
Lamp code: LED  
ZVEI Code: LED  
Nominal power [W]: 41  
Nominal luminous [Lm]: 5000  
Lamp maximum intensity [cd]: /  
Beam angle [°]: 48°

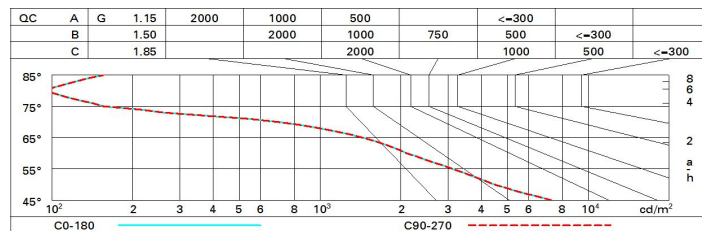
Number of lamps for optical assembly: 1  
Socket: /  
Ballast losses [W]: 3.8  
Colour temperature [K]: 3000  
CRI: 90  
Wavelength [Nm]: /  
MacAdam Step: 2

**Polar**

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	68	65	62	60	64	62	61	59	78
1.0	71	68	66	64	67	65	65	63	82
1.5	75	73	71	69	72	70	69	67	88
2.0	77	76	74	73	74	73	72	70	93
2.5	79	77	76	75	76	75	75	73	95
3.0	80	79	78	77	78	77	76	74	98
4.0	81	80	79	79	79	78	77	75	99
5.0	81	81	80	80	79	79	78	76	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 5000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
2H	2H	17.3	17.9	17.6	18.1	18.3	17.3	17.9	17.6	18.1	18.3
	3H	17.2	17.7	17.5	18.0	18.2	17.2	17.7	17.5	18.0	18.2
	4H	17.1	17.6	17.4	17.9	18.2	17.1	17.6	17.5	17.9	18.2
	6H	17.0	17.5	17.4	17.8	18.1	17.0	17.5	17.4	17.8	18.1
	8H	17.0	17.4	17.4	17.7	18.1	17.0	17.4	17.4	17.7	18.1
	12H	17.0	17.4	17.3	17.7	18.0	17.0	17.4	17.3	17.7	18.0
4H	2H	17.1	17.6	17.5	17.9	18.2	17.1	17.6	17.4	17.9	18.2
	3H	17.0	17.4	17.3	17.7	18.1	17.0	17.4	17.3	17.7	18.1
	4H	16.9	17.2	17.3	17.6	18.0	16.9	17.2	17.3	17.6	18.0
	6H	16.8	17.1	17.2	17.5	17.9	16.8	17.1	17.2	17.5	17.9
	8H	16.7	17.0	17.2	17.4	17.9	16.7	17.0	17.2	17.4	17.9
	12H	16.7	16.9	17.2	17.4	17.8	16.7	16.9	17.2	17.4	17.8
8H	4H	16.7	17.0	17.2	17.4	17.9	16.7	17.0	17.2	17.4	17.9
	6H	16.7	16.9	17.1	17.3	17.8	16.7	16.9	17.1	17.3	17.8
	8H	16.6	16.8	17.1	17.3	17.8	16.6	16.8	17.1	17.3	17.8
	12H	16.5	16.7	17.0	17.2	17.7	16.5	16.7	17.0	17.2	17.7
12H	4H	16.7	16.9	17.2	17.4	17.8	16.7	16.9	17.2	17.4	17.8
	6H	16.6	16.8	17.1	17.3	17.8	16.6	16.8	17.1	17.3	17.8
	8H	16.5	16.7	17.0	17.2	17.7	16.5	16.7	17.0	17.2	17.7
Variations with the observer position at spacing:											
S =	1.0H	6.4 / -15.1					6.4 / -15.1				
	1.5H	9.2 / -17.5					9.2 / -17.5				
	2.0H	11.2 / -20.3					11.2 / -20.3				