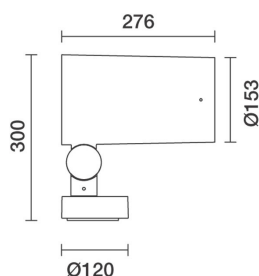


**Product configuration: EF51**

EF51: Spotlight with base - Warm White Led - integrated electronic control gear - Medium optic



EF51: Spotlight with base - Warm White Led - integrated electronic control gear - Medium optic

**Technical description:**

Spotlight designed to use LED lamps and a Medium optic. The optical assembly and base is made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. 5 mm thick tempered sodium-calcium closing glass. Double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Mechanical aiming locks for rotation on both the vertical axis and horizontal plane. Complete with a monochrome LED circuit and an Opti Beam Reflector optic system. The product includes a PG13.5 cable gland. Electronic DALI ballast integrated in product. Option of using optic accessories assembled via an accessory holder frame. All external screws used are made of A2 stainless steel.

Floor, wall, ceiling or via pole.

White (01) | Black (04) | Grey (15) | Rust Brown (F5)

## 6.56

mounting  
wall arm|ground surface|wall surface|ceiling surface

Double PG.

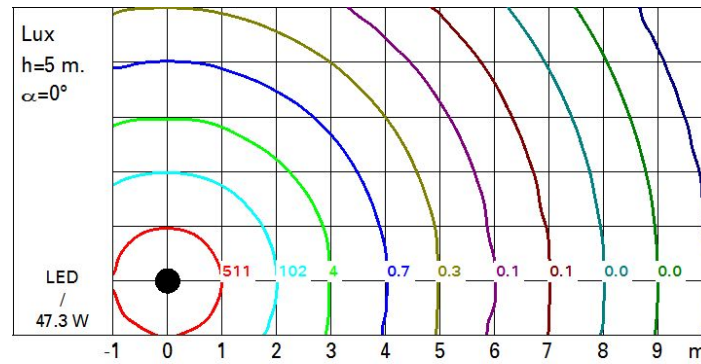
Complies with EN60598-1 and pertinent regulations



Im system:	4970	Life Time LED 2:	100,000h - L90 - B10 (Ta 40°C)
W system:	47.3	Lamp code:	LED
Im source:	6540	Number of lamps for optical assembly:	1
W source:	42	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	105.1	Number of optical assemblies:	1
Im in emergency mode:	-	Intervallo temperatura ambiente:	from -30°C to 50°C.
Total light flux at or above an angle of 90° [Lm]:	0	Lifetime of product at ambient operating temperature:	≥ 50.000h Ta=40°C
Light Output Ratio (L.O.R.) [%]:	76	Power factor:	See installation instructions
Beam angle [°]:	30°	Inrush current:	43 A / 260 µs
CRI (minimum):	80	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 6 luminaires B16A: 10 luminaires C10A: 10 luminaires C16A: 17 luminaires
Colour temperature [K]:	3000	Overvoltage protection:	10kV Common mode & 6kV Differential mode
MacAdam Step:	2	Control:	DALI-2
Life Time LED 1:	100,000h - L90 - B10 (Ta 25°C)		

$I_{\max}=17431 \text{ cd}$	Lux			
	h	d	Em	E <sub>max</sub>
10	5.4	145	174	
20	10.7	36	44	
30	16.1	16	19	
40	21.4	9	11	

### Isolux



### UGR diagram

Corrected UGR values (at 6540 lm bare lamp luminous flux)											
Reflect.:											
ceiling		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	-0.5	1.6	-0.2	2.0	2.3	-0.5	1.6	-0.2	2.0	2.3
	3H	-0.5	1.2	-0.2	1.5	1.9	-0.6	1.1	-0.2	1.5	1.8
	4H	-0.6	0.9	-0.2	1.2	1.6	-0.6	0.8	-0.2	1.2	1.5
	6H	-0.6	0.5	-0.2	0.8	1.2	-0.7	0.5	-0.3	0.8	1.2
	8H	-0.6	0.4	-0.2	0.8	1.2	-0.7	0.4	-0.3	0.7	1.1
	12H	-0.7	0.4	-0.3	0.7	1.1	-0.7	0.3	-0.3	0.7	1.1
4H	2H	-0.6	0.8	-0.2	1.2	1.5	-0.6	0.9	-0.2	1.2	1.6
	3H	-0.6	0.5	-0.1	0.9	1.2	-0.5	0.5	-0.1	0.9	1.2
	4H	-0.6	0.4	-0.2	0.7	1.2	-0.6	0.4	-0.2	0.7	1.2
	6H	-1.0	0.7	-0.5	1.2	1.7	-1.0	0.7	-0.5	1.2	1.7
	8H	-1.1	0.8	-0.6	1.3	1.8	-1.1	0.8	-0.6	1.3	1.8
	12H	-1.2	0.8	-0.7	1.3	1.8	-1.2	0.8	-0.7	1.3	1.8
8H	4H	-1.1	0.8	-0.6	1.3	1.8	-1.1	0.8	-0.6	1.3	1.8
	6H	-1.2	0.7	-0.7	1.1	1.7	-1.2	0.7	-0.7	1.1	1.7
	8H	-1.2	0.5	-0.7	0.9	1.5	-1.2	0.5	-0.7	0.9	1.5
	12H	-1.1	0.0	-0.6	0.5	1.1	-1.1	0.0	-0.6	0.5	1.1
12H	4H	-1.2	0.8	-0.7	1.3	1.8	-1.2	0.8	-0.7	1.3	1.8
	6H	-1.2	0.4	-0.7	0.9	1.5	-1.2	0.4	-0.7	0.9	1.5
	8H	-1.1	0.0	-0.6	0.5	1.1	-1.1	0.0	-0.6	0.5	1.1
Variations with the observer position at spacing:											
S =		1.0H	3.9 / -3.9			3.9 / -3.9					
		1.5H	6.4 / -5.8			6.4 / -5.8					
		2.0H	8.3 / -7.1			8.3 / -7.1					