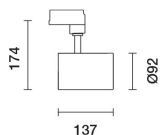


Last information update: April 2025

**Product configuration: R311.01**

R311.01: body Ø 92 mm - wideflood optic - 28W 3130.2lm - 4000K - CRI 90 - White



**Product code**

R311.01: body Ø 92 mm - wideflood optic - 28W 3130.2lm - 4000K - CRI 90 - White

**Technical description**

Adjustable spotlight with adapter for installation on a mains voltage track. Luminaire made of die-cast aluminium. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Built-in dimmable DALI ballast. Luminaire complete with C.O.B. technology LED unit in neutral white colour 4000K. Anti-scratch reflector made of P.V.D (physical vapour deposition) aluminium that can provide optimum performance in terms of light efficiency. Wideflood optic. Possibility of installing a flat accessory, like a glass cover or an elliptical distribution refractor. Interchangeable reflectors that can be ordered as an accessory.

**Installation**

On an electrified track or special base

**Colour**

White (01)

**Weight (Kg)**

0.78

**Mounting**

three circuit track

**Wiring**

Product complete with DALI components

Complies with EN60598-1 and pertinent regulations



**Technical data**

lm system:	3130	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	28	Lamp code:	LED
lm source:	3330	Number of lamps for optical assembly:	1
W source:	24	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	111.8	Number of optical assemblies:	1
lm in emergency mode:	-	Power factor:	See installation instructions
Total light flux at or above an angle of 90° [Lm]:	0	Inrush current:	5 A / 50 µs
Light Output Ratio (L.O.R.) [%]:	94	Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
Beam angle [°]:	56°	Minimum dimming %:	1
CRI (minimum):	90	Overvoltage protection:	4kV Common mode & 2kV Differential mode
Colour temperature [K]:	4000	Control:	DALI-2
MacAdam Step:	2		

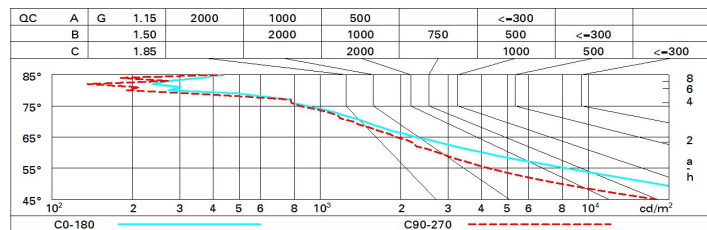
**Polar**

		<b>CIE</b> nL 0.94 98-100-100-100-94 UGR 19.1-17.4 <b>DIN</b> A.61 <b>UTE</b> 0.94A+0.00T F*1=990 F*1+F*2=999 F*1+F*2+F*3=1000 <b>CIBSE</b> LG3 L<3000 cd/m² at 65°		<b>Lux</b>	
h	d1	d2	Em	Emax	
2	2.1	2.1	822	1024	
4	4.3	4.3	206	256	
6	6.4	6.4	91	114	
8	8.5	8.5	51	64	

# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	84	80	76	74	79	76	75	72	77
1.0	88	84	81	79	83	80	80	77	82
1.5	93	89	87	85	88	86	85	83	88
2.0	95	93	91	90	92	90	89	87	92
2.5	97	96	94	93	94	93	92	89	95
3.0	99	97	96	95	96	95	94	91	97
4.0	100	99	98	97	97	97	95	93	99
5.0	100	100	99	99	98	98	96	94	100

# Luminance curve limit



# UGR diagram

Corrected UGR values (at 3330 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	19.7	20.3	19.9	20.5	20.7	17.9	18.5	18.2	18.7	19.0
	3H	19.5	20.1	19.8	20.3	20.6	17.8	18.3	18.1	18.6	18.9
	4H	19.5	20.0	19.8	20.2	20.5	17.7	18.2	18.0	18.5	18.8
	6H	19.4	19.8	19.7	20.1	20.5	17.6	18.1	18.0	18.4	18.7
	8H	19.3	19.8	19.7	20.1	20.4	17.6	18.0	18.0	18.4	18.7
	12H	19.3	19.7	19.7	20.1	20.4	17.6	18.0	17.9	18.3	18.7
4H	2H	19.5	20.0	19.8	20.2	20.5	17.7	18.2	18.0	18.5	18.8
	3H	19.3	19.7	19.7	20.1	20.4	17.6	18.0	17.9	18.3	18.7
	4H	19.2	19.6	19.6	20.0	20.3	17.5	17.9	17.9	18.2	18.6
	6H	19.1	19.5	19.6	19.9	20.3	17.4	17.7	17.8	18.1	18.5
	8H	19.1	19.4	19.5	19.8	20.2	17.4	17.6	17.8	18.1	18.5
	12H	19.0	19.3	19.5	19.7	20.2	17.3	17.6	17.8	18.0	18.5
8H	4H	19.1	19.4	19.5	19.8	20.2	17.4	17.6	17.8	18.1	18.5
	6H	19.0	19.2	19.5	19.7	20.2	17.3	17.5	17.7	17.9	18.4
	8H	18.9	19.1	19.4	19.6	20.1	17.2	17.4	17.7	17.9	18.4
	12H	18.9	19.1	19.4	19.6	20.1	17.2	17.3	17.7	17.8	18.3
12H	4H	19.0	19.3	19.5	19.7	20.2	17.3	17.6	17.8	18.0	18.5
	6H	18.9	19.1	19.4	19.6	20.1	17.2	17.4	17.7	17.9	18.4
	8H	18.9	19.1	19.4	19.6	20.1	17.2	17.3	17.7	17.8	18.3
Variations with the observer position at spacing:											
S =	1.0H	5.6 / -12.7					5.8 / -14.2				
	1.5H	8.4 / -17.1					8.6 / -16.7				
	2.0H	10.4 / -19.3					10.6 / -18.3				