

Last information update: February 2025

**Product configuration: R287.01**

R287.01: body Ø 92 mm - wide flood optic - 19.7W 2340.6lm - 4000K - CRI 90 - White



**Product code**

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**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

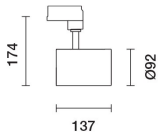
**Mounting**

three circuit track

**Wiring**

Product complete with DALI components.

Complies with EN60598-1 and pertinent regulations



**Technical data**

lm system:	2341	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
W system:	19.7	Lamp code:	LED
lm source:	2490	Number of lamps for optical assembly:	1
W source:	17	ZVEI Code:	LED
Luminous efficiency (lm/W, real value):	118.8	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		

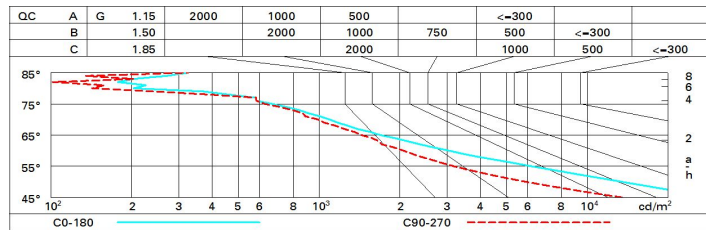
**Polar**

<p>Imax=3063 cd C0-180 α=56°</p>	CIE		Lux				
	nL 0.94		h	d1	d2	Em	Emax
	98-100-100-100-94		2	2.1	2.1	615	765
	UGR 18.1-16.3		4	4.3	4.3	154	191
	DIN A.61		6	6.4	6.4	68	85
UTE		8	8.5	8.5	38	48	
0.94A+0.00T							
F*1=980							
F*1+F*2=999							
F*1+F*2+F*3=1000							
CIBSE							
LG3 L<3000 cd/m² at 65°							
UGR<19   L<3000 cd/mq @65°							

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 2.490 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											
x	y										
2H	2H	18.7	19.2	18.9	19.5	19.7	16.9	17.5	17.2	17.7	18.0
	3H	18.5	19.1	18.8	19.3	19.6	16.8	17.3	17.1	17.6	17.9
	4H	18.4	18.9	18.8	19.2	19.5	16.7	17.2	17.0	17.5	17.8
	6H	18.4	18.8	18.7	19.1	19.5	16.6	17.1	17.0	17.4	17.7
	8H	18.3	18.8	18.7	19.1	19.4	16.6	17.0	17.0	17.4	17.7
	12H	18.3	18.7	18.7	19.1	19.4	16.6	17.0	16.9	17.3	17.7
4H	2H	18.4	18.9	18.8	19.2	19.5	16.7	17.2	17.0	17.5	17.8
	3H	18.3	18.7	18.7	19.1	19.4	16.6	17.0	16.9	17.3	17.7
	4H	18.2	18.6	18.6	18.9	19.3	16.5	16.8	16.9	17.2	17.6
	6H	18.1	18.4	18.5	18.8	19.3	16.4	16.7	16.8	17.1	17.5
	8H	18.1	18.4	18.5	18.8	19.2	16.3	16.6	16.8	17.1	17.5
	12H	18.0	18.3	18.5	18.7	19.2	16.3	16.6	16.7	17.0	17.4
8H	4H	18.1	18.4	18.5	18.8	19.2	16.3	16.6	16.8	17.0	17.5
	6H	18.0	18.2	18.5	18.7	19.1	16.2	16.5	16.7	16.9	17.4
	8H	17.9	18.1	18.4	18.6	19.1	16.2	16.4	16.7	16.9	17.4
	12H	17.9	18.1	18.4	18.5	19.1	16.1	16.3	16.6	16.8	17.3
12H	4H	18.0	18.3	18.5	18.7	19.2	16.3	16.6	16.7	17.0	17.4
	6H	17.9	18.1	18.4	18.6	19.1	16.2	16.4	16.7	16.9	17.4
	8H	17.9	18.1	18.4	18.5	19.1	16.1	16.3	16.6	16.8	17.3
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				