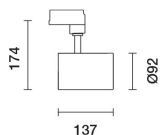


Last information update: June 2025

Product configuration: R296.04

R296.04: body Ø 92 mm - 3000K - wideflood optic - Black

**Product code**R296.04: body Ø 92 mm - 3000K - wideflood optic - Black **Attention! Code no longer in production****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. Equipped with electronic ballast. Luminaire complete with C.O.B. technology LED unit in warm white colour 3000K. 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

Black (04)

Weight (Kg)

0.78

Mounting

three circuit track

Wiring

Product complete with electronic components

Complies with EN60598-1 and pertinent regulations



IP20

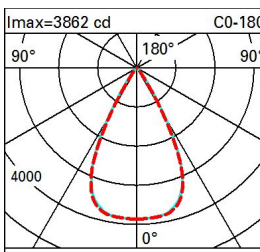
IP40

With accessory installed

**Technical data**

lm system:	2952	CRI (minimum):	90
W system:	28.1	Colour temperature [K]:	3000
lm source:	3140	MacAdam Step:	2
W source:	24	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	105	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.) [%]:	94	Number of optical assemblies:	1
Beam angle [°]:	56°	Control:	On/off

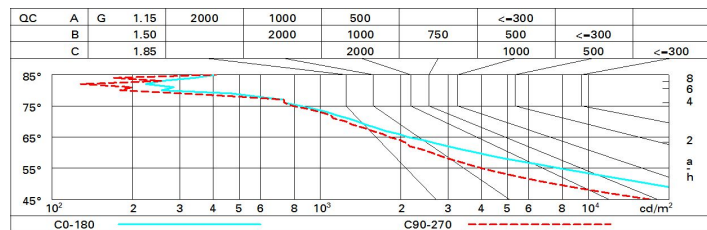
Polar

		Imax=3862 cd C0-180 CIE nL 0.94 98-100-100-100-94 UGR 18.9-17.1 DIN A.61 UTE 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°		Lux				
		h	d1	d2	Em	Emax		
$\alpha=56^\circ$		2	2.1	2.1	775	965		
		4	4.3	4.3	194	241		
		6	6.4	6.4	86	107		
		8	8.5	8.5	48	60		

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 3140 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	19.5	20.0	19.7	20.3	20.5	17.7	18.3	18.0	18.5	18.8
	3H	19.3	19.9	19.6	20.1	20.4	17.6	18.1	17.9	18.4	18.7
	4H	19.3	19.8	19.6	20.0	20.3	17.5	18.0	17.8	18.3	18.6
	6H	19.2	19.6	19.5	19.9	20.3	17.4	17.9	17.8	18.2	18.5
	8H	19.1	19.6	19.5	19.9	20.2	17.4	17.8	17.8	18.2	18.5
	12H	19.1	19.5	19.5	19.9	20.2	17.4	17.8	17.7	18.1	18.5
4H	2H	19.3	19.7	19.6	20.0	20.3	17.5	18.0	17.8	18.3	18.6
	3H	19.1	19.5	19.5	19.9	20.2	17.4	17.8	17.7	18.1	18.5
	4H	19.0	19.4	19.4	19.8	20.1	17.3	17.6	17.7	18.0	18.4
	6H	18.9	19.3	19.4	19.6	20.1	17.2	17.5	17.6	17.9	18.3
	8H	18.9	19.2	19.3	19.6	20.0	17.1	17.4	17.6	17.9	18.3
	12H	18.8	19.1	19.3	19.5	20.0	17.1	17.4	17.6	17.8	18.3
8H	4H	18.9	19.2	19.3	19.6	20.0	17.1	17.4	17.6	17.9	18.3
	6H	18.8	19.0	19.3	19.5	20.0	17.1	17.3	17.5	17.7	18.2
	8H	18.7	18.9	19.2	19.4	19.9	17.0	17.2	17.5	17.7	18.2
	12H	18.7	18.9	19.2	19.3	19.9	16.9	17.1	17.4	17.6	18.1
12H	4H	18.8	19.1	19.3	19.5	20.0	17.1	17.4	17.6	17.8	18.3
	6H	18.7	18.9	19.2	19.4	19.9	17.0	17.2	17.5	17.7	18.2
	8H	18.7	18.9	19.2	19.3	19.9	16.9	17.1	17.4	17.6	18.1
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				