Tecnica Evo

Design iGuzzini **iGuzzini**

Last information update: April 2025

Product configuration: R305.01
R305.01: body Ø 92 mm - wideflood optic - 28W 3487.4lm - 4000K - White

Product code
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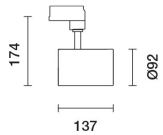
Technical description
Adjustable spotlight with adapter for installation on a mains voltage track. Luminaire made of die-cast aluminium. Spotlight double adjustability allows a 360° rotation about the vertical axis and 90° tilting relative to the horizontal plane. Built-in dimmable DALI ballast. Luminaire 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	**Weight (Kg)**
White (01)	0.78



Mounting
three circuit track

Wiring
Product complete with DALI components

Complies with EN60598-1 and pertinent regulations

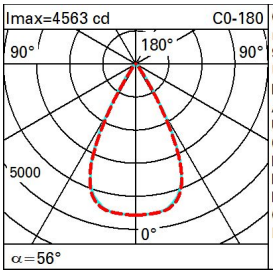
IP20 IP40 With accessory installed

Technical data

lm system:	3487
W system:	28
lm source:	3710
W source:	24
Luminous efficiency (lm/W, real value):	124.5
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	94
Beam angle [°]:	56°
CRI (minimum):	80
Colour temperature [K]:	4000
MacAdam Step:	2

Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	5 A / 50 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 31 luminaires B16A: 50 luminaires C10A: 52 luminaires C16A: 85 luminaires
Minimum dimming %:	1
Overvoltage protection:	4kV Common mode & 2kV Differential mode
Control:	DALI-2

Polar



CIE
nL 0.94
98-100-100-100-94
UGR 19.5-17.7
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°

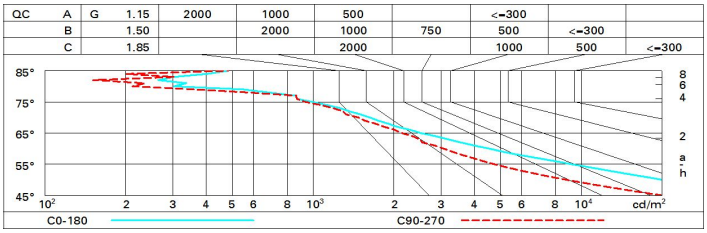
Lux

h	d1	d2	Em	Emax
2	2.1	2.1	916	1140
4	4.3	4.3	229	285
6	6.4	6.4	102	127
8	8.5	8.5	57	71

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 3710 lm bare lamp luminous flux)

Riflect.: ceil/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				viewed crosswise					viewed endwise		
x	y										
2H	2H	20.0	20.6	20.3	20.9	21.1	18.3	18.9	18.6	19.1	19.4
	3H	19.9	20.4	20.2	20.7	21.0	18.2	18.7	18.5	19.0	19.2
	4H	19.8	20.3	20.2	20.6	20.9	18.1	18.6	18.4	18.9	19.2
	6H	19.8	20.2	20.1	20.5	20.8	18.0	18.5	18.4	18.8	19.1
	8H	19.7	20.2	20.1	20.5	20.8	18.0	18.4	18.3	18.7	19.1
	12H	19.7	20.1	20.1	20.4	20.8	17.9	18.4	18.3	18.7	19.0
4H	2H	19.8	20.3	20.2	20.6	20.9	18.1	18.6	18.4	18.9	19.2
	3H	19.7	20.1	20.1	20.4	20.8	17.9	18.4	18.3	18.7	19.1
	4H	19.6	20.0	20.0	20.3	20.7	17.9	18.2	18.3	18.6	19.0
	6H	19.5	19.8	19.9	20.2	20.6	17.8	18.1	18.2	18.5	18.9
	8H	19.5	19.8	19.9	20.2	20.6	17.7	18.0	18.2	18.4	18.9
	12H	19.4	19.7	19.9	20.1	20.6	17.7	17.9	18.1	18.4	18.8
8H	4H	19.5	19.8	19.9	20.2	20.6	17.7	18.0	18.2	18.4	18.9
	6H	19.4	19.6	19.8	20.1	20.5	17.6	17.9	18.1	18.3	18.8
	8H	19.3	19.5	19.8	20.0	20.5	17.6	17.8	18.1	18.3	18.8
	12H	19.3	19.4	19.8	19.9	20.4	17.5	17.7	18.0	18.2	18.7
12H	4H	19.4	19.7	19.9	20.1	20.6	17.7	17.9	18.1	18.4	18.8
	6H	19.3	19.5	19.8	20.0	20.5	17.6	17.8	18.1	18.3	18.8
	8H	19.3	19.4	19.8	19.9	20.4	17.5	17.7	18.0	18.2	18.7

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