Linealuce

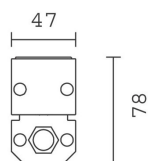**Design Jean Michel Wilmotte**   **iGuzzini**

Last information update: June 2018

Mini47 – Wall-/Ceiling-mounted – Warm White – 48 Vdc DMX512-RDM – L=611mm – Spot optic

Product code
EG47

Technical description
Direct light luminaire, designed to use monochrome LED lamps, DMX512-RDM 48Vdc dimmable with searching and addressing function. Ceiling-, wall- or surface-mounted. Consists of a body and supports for installation, to be ordered separately. The body is made of extruded aluminium and includes die-cast aluminium end caps with 50/60 Shore A silicone seals. It is 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. The top of the optical assembly is closed by a 3 mm thick transparent glass screen, fixed with silicone. Complete with multi-LED plate in Warm White and a 48V dc DMX512-RDM electronic driver (ballast to be ordered separately). Supplied with a double PG13.5 and outlet cables for pass-through wiring with IP68 male/female joiners. Fitted with optics with a plastic (methacrylate) lens for Spot lighting. All external screws used are made of A2 stainless steel. The luminaire technical characteristics conform to EN 60598-1 standards and particular requirements.

Installation
Accessories are available for installation, like adjustable AISI304 stainless steel wall-mounted arms.

Dimension (mm)
611x47x77

Colour
Grey (15)

Weight (Kg)
1.82

Mounting
wall arm|wall surface|ceiling surface

Wiring
Complete with DMX-RDM 44÷52Vdc control card. The product is supplied with a nickel-plated brass PG13.5 double cable gland with H07RN-F 5x1.5mm² rubber outlet cables for pass-through wiring with joiners (illegible part). Available for electrical connection and DMX-RDM control: IP68 5-pin female connector, IP68 5-pin male connector + closing cap (BZI6), and IP68 5-pin male + female connectors.

Notes
Product complete with LED lamp. DMX specifications require the insertion of a 120 Ohm terminating resistor to be placed between the DATA+ and DATA- cables of the last product in the line (BZQ7).

Complies with EN60598-1 and pertinent regulations

III   IK05   IP66

CIDET   EHL   A++   pending   CCC pending

Product configuration: EG47

Product characteristics
Total lighting output [Lm]: 2066	Total luminous flux at or above an angle of 90° [Lm]: 0
Total power [W]: 24.6	Emergency luminous flux [Lm]: /
Luminous efficacy [Lm/W]: 84	Voltage [V]: 48
Life Time: 100,000h - L80 - B10 (Ta 25°C)	Life Time: 100,000h - L80 - B10 (Ta 40°C)
Ambient temperature range: from -20°C to +35°C. (*)	Number of optical assemblies: 1

* Preliminary data

Optical assembly Characteristics Type 1
Light Output Ratio (L.O.R.) [%]: 81	Number of lamps for optical assembly: 1
Lamp code: LED	Socket: /
ZVEI Code: LED	Ballast losses [W]: 3.6
Nominal power [W]: 21	Colour temperature [K]: 3000
Nominal luminous [Lm]: 2550	CRI: 80
Lamp maximum intensity [cd]: /	Wavelength [Nm]: /
Beam angle [°]: 10°	MacAdam Step: 3

Polar

Imax=40198 cd		C0-180	CIE		Lux				
90°	180°	90°	nL 0.81 99-100-100-100-81 UGR <10-<10		h	d1	d2	Em	Emax
			DIN A.61		2	0.3	0.3	8255	10050
40000			**UTE** 0.81A+0.00T F"1=988 F"1+F"2=997 F"1+F"2+F"3=1000		4	0.7	0.7	2064	2512
	0°		**CIBSE** LG3 L<1500 cd/m² at 65° UGR<10 I L<1500 cd/mq @65°		6	1	1	917	1117
α=10°					8	1.4	1.4	516	628
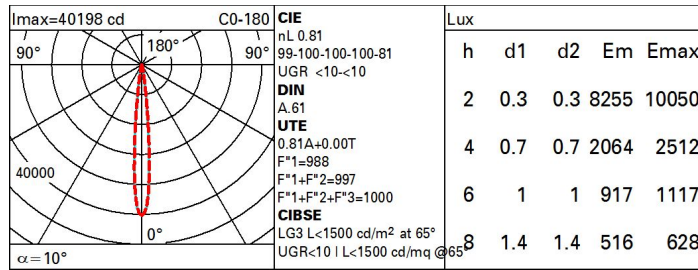
Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	66	64	68	66	65	63	78
1.0	76	73	70	68	72	70	69	67	82
1.5	80	77	75	74	76	75	74	71	88
2.0	82	81	79	78	79	78	77	75	93
2.5	84	83	81	80	81	80	79	77	95
3.0	85	84	83	82	83	82	81	79	97
4.0	86	85	85	84	84	83	82	80	99
5.0	87	86	86	85	85	84	83	81	100

Luminance curve limit

QC											
A	G	1.15	2000	1000	500		<=300				
B		1.50		2000	1000	750	500	<=300			
C		1.85			2000		1000	500	<=300		

85°		8 6 4
75°		
65°		2
55°		a h
45°	10² 2 3 4 6 8 10³ 2 3 4 5 6 8 10⁴ cd/m²	

C0-180 ————	C90-270 -------
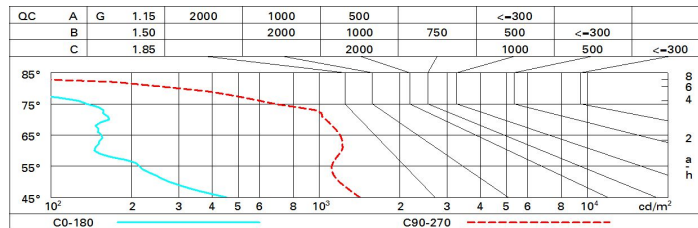
UGR diagram

Corrected UGR values (at 2550 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					viewed		
x	y			crosswise					endwise		
2H	2H	-3.3	-1.3	-2.9	-1.0	-0.6	2.2	4.3	2.6	4.6	4.9
	3H	-3.2	-2.0	-2.9	-1.7	-1.4	2.2	3.4	2.5	3.7	4.0
	4H	-3.1	-2.2	-2.8	-1.9	-1.6	2.1	3.0	2.5	3.4	3.7
	6H	-3.1	-2.5	-2.8	-2.2	-1.9	2.1	2.7	2.5	3.0	3.4
	8H	-3.2	-2.5	-2.8	-2.2	-1.8	2.0	2.7	2.4	3.1	3.4
	12H	-3.3	-2.5	-2.9	-2.1	-1.7	1.9	2.8	2.3	3.1	3.5
4H	2H	-3.0	-2.1	-2.7	-1.8	-1.5	4.0	4.9	4.3	5.2	5.5
	3H	-3.0	-2.2	-2.6	-1.8	-1.4	3.8	4.7	4.2	5.0	5.4
	4H	-3.1	-1.9	-2.7	-1.5	-1.1	3.6	4.8	4.0	5.2	5.6
	6H	-3.4	-1.6	-2.9	-1.1	-0.7	3.3	5.1	3.7	5.5	6.0
	8H	-3.5	-1.6	-3.0	-1.1	-0.6	3.1	5.1	3.6	5.5	6.0
	12H	-3.6	-1.7	-3.1	-1.2	-0.7	3.1	5.0	3.6	5.5	6.0
8H	4H	-3.5	-1.5	-3.0	-1.1	-0.6	3.3	5.2	3.8	5.7	6.2
	6H	-3.5	-1.9	-3.0	-1.4	-0.9	3.2	4.9	3.8	5.3	5.9
	8H	-3.4	-2.2	-2.9	-1.7	-1.2	3.3	4.5	3.8	5.0	5.5
	12H	-3.2	-2.6	-2.7	-2.1	-1.5	3.5	4.1	4.0	4.6	5.2
12H	4H	-3.6	-1.6	-3.1	-1.2	-0.6	3.2	5.1	3.7	5.6	6.1
	6H	-3.4	-2.2	-2.9	-1.7	-1.2	3.3	4.5	3.8	5.0	5.5
	8H	-3.2	-2.6	-2.7	-2.1	-1.5	3.5	4.1	4.0	4.6	5.2

Variations with the observer position at spacing:

S =			
	1.0H	3.5 / -5.1	1.1 / -1.4
	1.5H	5.7 / -6.3	2.0 / -0.9
	2.0H	7.4 / -6.7	3.5 / -4.9