

Last information update: November 2024

Product configuration: QY05.12+QX49.01

QY05.12: LED module - L 1192 - 78° - up (40%) and down (60%) emission - low output - warm white - integrated DALI dimmable control gear - Aluminium

QX49.01: IN60 MMO - Up and Down Module - Minimal - L= 1192 - 3000K - CRI 80 - White

**Product code**

QY05.12: LED module - L 1192 - 78° - up (40%) and down (60%) emission - low output - warm white - integrated DALI dimmable control gear - Aluminium

Technical description

LED module set up for housing in IN60 MMO up (40%) and down (60%) emission system profiles. The raster is made of metallised thermoplastic. The luminaire generates a down emission with controlled luminance $L \leq 3000 \text{ cd/m}^2 - \alpha > 65^\circ$, for use in environments with video monitors in compliance with EN 12464-1. The version is Low Output. Supplied with DALI dimmable electronic control gear. Warm white LED (3000K), CRI80.

Installation

Module insertion on compartments with a mechanical easy-push system (steel snap-on springs).

Colour

Aluminium (12)

Weight (Kg)

0.93

Wiring

Quick coupling input terminal block connection. LED module complete with integrated DALI control gear. The electrical cables used are made of a "halogen free" material.

Complies with EN60598-1 and pertinent regulations

**Product code**

QX49.01: IN60 MMO - Up and Down Module - Minimal - L= 1192 - 3000K - CRI 80 - White

Technical description

The L profile=1192 mm is made of extruded aluminium. This is the Minimal version for up (3000K and CRI80) and down emission. The product can be used for pendant applications; in both a stand alone version and when the product is used in continuous lines.

Installation

Installation can be pendant-mounted using suitable accessories to be ordered separately. The modules are completed with end caps and rasters with LEDs to be ordered separately.

Colour

White (01)

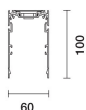
Weight (Kg)

2

Mounting

ceiling recessed|wall surface|ceiling pendant

Complies with EN60598-1 and pertinent regulations

**Technical data**

Im system:	4407	CRI (minimum):	80
W system:	27	Colour temperature [K]:	3000
Im source:	5650	MacAdam Step:	3
W source:	27	Lamp code:	LED
Luminous efficiency (Im/W, real value):	163.2	Number of lamps for optical assembly:	1
Im in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	1562	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	78	Control:	DALI-2

<p>Imax=2068 cd C45-225 γ=25°</p> <p>α=72°</p>	<p>CIE nL 0.78 RnL 100-100-65-78 UGR 10.2-11.3</p> <p>DIN B.62</p> <p>UTE 0.50A+0.28T F*1=862 F*1+F*2=998 F*1+F*2+F*3=1000</p> <p>CIBSE LG3 L<1500 cd/m² at 65° UGR<16 L<1500 cd/mq @65°</p>	<p>Lux</p> <table border="1"> <thead> <tr> <th>h</th> <th>d1</th> <th>d2</th> <th>Em</th> <th>Emax</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>2.9</td> <td>2.9</td> <td>369</td> <td>463</td> </tr> <tr> <td>4</td> <td>5.8</td> <td>5.8</td> <td>92</td> <td>116</td> </tr> <tr> <td>6</td> <td>8.7</td> <td>8.7</td> <td>41</td> <td>51</td> </tr> <tr> <td>8</td> <td>11.6</td> <td>11.6</td> <td>23</td> <td>29</td> </tr> </tbody> </table>	h	d1	d2	Em	Emax	2	2.9	2.9	369	463	4	5.8	5.8	92	116	6	8.7	8.7	41	51	8	11.6	11.6	23	29
h	d1	d2	Em	Emax																							
2	2.9	2.9	369	463																							
4	5.8	5.8	92	116																							
6	8.7	8.7	41	51																							
8	11.6	11.6	23	29																							

R	77	75	73	71	55	53	33	00	DRR
K0.8	54	49	45	42	45	42	40	34	68
1.0	58	53	50	47	49	47	43	37	74
1.5	64	60	57	54	55	53	49	42	83
2.0	67	64	61	59	58	56	52	44	88
2.5	69	66	64	62	60	59	54	46	92
3.0	70	68	66	65	62	61	55	47	94
4.0	71	70	68	67	63	62	57	48	96
5.0	72	71	70	69	64	63	58	49	97

QC

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

UGR diagram

Corrected UGR values (at 5050 lm bare lamp luminous flux)												
Reflect.: ceiling/cav walls work pl. Room dim x y		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	
		viewed crosswise					viewed endwise					
2H	2H	11.1	11.6	11.9	12.4	13.2	12.2	12.7	12.9	13.4	14.3	
	3H	10.9	11.4	11.7	12.1	13.0	12.0	12.5	12.8	13.2	14.1	
	4H	10.8	11.2	11.6	12.0	12.9	11.9	12.3	12.7	13.1	14.0	
	6H	10.7	11.0	11.5	11.8	12.8	11.8	12.1	12.6	12.9	13.9	
	8H	10.6	11.0	11.4	11.8	12.8	11.7	12.1	12.5	12.9	13.9	
	12H	10.5	10.9	11.4	11.7	12.7	11.6	12.0	12.5	12.8	13.8	
4H	2H	10.8	11.2	11.6	12.0	12.9	11.9	12.3	12.7	13.1	14.0	
	3H	10.6	10.9	11.4	11.7	12.7	11.6	12.0	12.5	12.8	13.8	
	4H	10.4	10.7	11.3	11.6	12.6	11.5	11.8	12.4	12.7	13.7	
	6H	10.3	10.6	11.2	11.4	12.5	11.4	11.6	12.3	12.5	13.6	
	8H	10.2	10.5	11.1	11.4	12.4	11.3	11.6	12.2	12.4	13.5	
	12H	10.2	10.4	11.1	11.3	12.4	11.2	11.5	12.1	12.3	13.4	
8H	4H	10.2	10.5	11.1	11.4	12.4	11.3	11.6	12.2	12.4	13.5	
	6H	10.1	10.3	11.0	11.2	12.3	11.2	11.4	12.1	12.3	13.4	
	8H	10.0	10.2	10.9	11.1	12.2	11.1	11.3	12.0	12.2	13.3	
	12H	10.0	10.1	10.9	11.0	12.2	11.0	11.2	12.0	12.1	13.2	
12H	4H	10.2	10.4	11.1	11.3	12.4	11.2	11.5	12.1	12.3	13.4	
	6H	10.0	10.2	10.9	11.1	12.2	11.1	11.3	12.0	12.2	13.3	
	8H	10.0	10.1	10.9	11.0	12.2	11.0	11.2	12.0	12.1	13.2	
Variations with the observer position at spacing:												
S =		1.0H	3.9 / -11.5					3.1 / -9.1				
		1.5H	5.5 / -26.8					5.4 / -27.3				
		2.0H	7.4 / -26.7					7.4 / -27.7				