iGuzzini

Last information update: May 2024

#### Product configuration: ML16+LED

ML16: square recessed luminaire - neutral white active dissipation - integrated electronic control gear - wide flood

#### Product code

ML16: square recessed luminaire - neutral white active dissipation - integrated electronic control gear - wide flood Attention! Code no longer in production

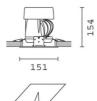
### Technical description

Recessed adjustable removable luminaire for LED lamp with active heat dissipation system. Square sheet steel perimeter frame. Main structure and lamp body made of die-cast aluminium. Steel rotation hinges. Chrome-plated aluminium lamp body closing ring. Forced heat dissipation using fan with magnetic anti-friction operation guaranteeing lasting efficiency and quietness, keeping LED lamp performance unchanged. The fan has an anti-dust protection system; safety thermal breaker and is set up for fast, easy replacement. Reflector with high efficiency super-pure aluminium optic - wide flood beam angle. Body adjusted using manually operated device: internal 29° - external 75° - rotation about axis 355°. Supplied with electronic control gear connected to the luminaire. Neutral white high efficiency LED.

#### Installation

recessed using steel springs for false ceilings with thicknesses starting at 1 mm; preparation slot 142 x 142 mm

# Colour



142x142

White / Aluminium (39) | Grey / Black / Aluminium (E1)





Wiring

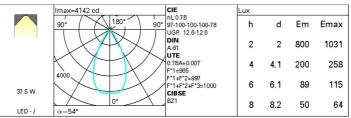
on control gear box with quick-coupling connections



Technical data					
Im system:	3117,2	CRI:	80		
W system:	37,5	Colour temperature [K]:	4000		
Im source:	4000	MacAdam Step:	3		
W source:	32	Life Time LED 1:	50.000h - L80 - B10 (Ta 25°C)		
Luminous efficiency (Im/W,	83,1	Lamp code:	LED		
real value):		Number of lamps for optical	1		
Im in emergency mode:	-	assembly:			
Total light flux at or above	0	ZVEI Code:	LED		
an angle of 90° [Lm]:		Number of optical	1		
Light Output Ratio (L.O.R.) [%]:	78	assemblies:			
Beam angle [°]:	54°				

Complies with EN60598-1 and pertinent regulations





Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	69	65	63	60	65	62	62	59	76
1.0	72	69	66	65	68	66	66	63	81
1.5	76	74	72	70	73	71	70	68	87
2.0	79	77	75	74	76	75	74	71	92
2.5	80	79	78	77	78	77	76	74	95
3.0	81	80	80	79	79	78	77	75	97
4.0	83	82	81	81	80	80	79	77	98
5.0	83	82	82	82	81	81	79	78	99

# Luminance curve limit

QC	Α	G	1.15	2000	1000	500		<-300		
	в		1.50		2000	1000	750	500	<=300	
	С		1.85			2000		1000	500	<=300
85°							n ( ir	$\overline{\Box}$	TI	8
75°						$\left\{ \left\{ \left\{ \right. \right\} \right\}$	H			4
65°							$\square$	$\mathbb{R}$		2
55°							<b></b>			a î h
45° 1	0 <sup>2</sup>		2	3 4	568	10 <sup>3</sup>	2 3	4 5 6	8 10 <sup>4</sup>	cd/m <sup>2</sup>
	C0-180	0 -			_		C90-270			

## UGR diagram

	ct.:											
CENC	av	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30	
walls work pl. Room dim		0.50 0.20	0.30 0.20	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	
				viewed		viewed						
x y		crosswise						endwise				
2H	2H	13.1	13.8	13.4	14.0	14.2	13.1	13.8	13.4	14.0	14.2	
	ЗH	13.0	13.6	13.3	13.8	14.1	13.0	13.6	13.3	13.8	14.1	
	4H	12.9	13.5	13.3	13.8	14.1	12.9	13.5	13.3	13.8	14.1	
	бH	12.9	13.3	13.2	13.7	14.0	12.9	13.3	13.2	13.7	14.0	
	8H	12.8	13.3	13.2	13.6	14.0	12.8	13.3	13.2	13.8	14.0	
	12 H	12.8	13.2	13.2	13.6	13.9	12.8	13.2	13.2	13.8	13.9	
4H	2H	12.9	13.5	13.3	13.8	14.1	12.9	13.5	13.3	13.8	14.1	
	ЗH	12.8	13.2	13.2	13.6	13.9	12.8	13.2	13.2	13.6	13.9	
	4H	12.7	13.1	13.1	13.5	13.9	12.7	13.1	13.1	13.5	13.9	
	бH	12.8	13.0	13.1	13.4	13.8	12.6	13.0	13.1	13.4	13.8	
	8H	12.8	12.9	13.0	13.3	13.7	12.6	12.9	13.0	13.3	13.7	
	12 H	12.5	12.8	13.0	13.2	13.7	12.5	12.8	13.0	13.2	13.1	
8H	4H	12.6	12.9	13.0	13.3	13.7	12.6	12.9	13.0	13.3	13.1	
	бH	12.5	12.8	13.0	13.2	13.7	12.5	12.8	13.0	13.2	13.7	
	8H	12.4	12.7	12.9	13.1	13.8	12.4	12.7	12.9	13.1	13.6	
	12 H	12.4	12.6	12.9	13.1	13.6	12.4	12.8	12.9	13.1	13.6	
12H	4H	12.5	12.8	13.0	13.2	13.7	12.5	12.8	13.0	13.2	13.1	
	бH	12.4	12.7	12.9	13.1	13.6	12.4	12.7	12.9	13.1	13.6	
	8H	12.4	12.6	12.9	13.1	13.6	12.4	12.8	12.9	13.1	13.6	
Varia	itions wi	th the ot	serverp	osition	at spacir	ig:						
5 =	1.0 H		5.	1 / -13	i.5	5.1 / -13.5						
	1.5 H		7.	9 / -14	.7	7.9 / -14.7						