iGuzzini

Last information update: May 2024

### Product configuration: MD78

MD78: recessed luminaire Ø 110 - neutral white passive dissipation integrated electronic control gear - flood

### Product code

MD78: recessed luminaire Ø 110 - neutral white passive dissipation integrated electronic control gear - flood Attention! Code no longer in production

## Technical description

recessed adjustable removable luminaire for LED lamp with passive heat dissipation system. Structure with die-cast aluminium frame and main body; shaped surface with high level radiant effect for effectively reducing the temperature and keeping the long-term LED lamp performance unchanged. Steel rotation hinge, chrome-plated aluminium body closing ring. Plastic reflector with high definition treatment - flood beam angle. Body adjusted using manually operated device: internal 30° - external 75° - rotation about axis 355°. Supplied with electronic control gear connected to the luminaire. Neutral white high efficiency LED

Weight (Kg)

0.52

### Installation

recessed using special steel springs in false ceilings with thicknesses starting at 1 mm; preparation hole Ø 100 Colour White / Aluminium (39) | Grey/Aluminium (78) 67 Mounting ceiling recessed





# Wiring

on control gear box with quick-coupling connections



Technical data					
Im system:	810	CRI (minimum):	80		
W system:	13.2	Colour temperature [K]:	4000		
Im source:	1000	MacAdam Step:	3		
W source:	9.6	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)		
Luminous efficiency (Im/W,	61.4	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.) [%]:	81	assemblies:			
Beam angle [°]:	28°				

### Polar

Imax=3087 cd		CIE	Lux			
90° 180°	90°	nL 0.81 100-100-100-100-81	h	d	Em	Emax
XX	$\angle$	UGR 11.0-11.0 DIN A.61	2	1	618	769
3000		UTE 0.81A+0.00T F"1=999	4	2	154	192
3000	$\langle \rangle$	F"1+F"2=1000 F"1+F"2+F"3=1000 CIBSE	6	3	69	85
α=28°	$\boldsymbol{X}$	LG3 L<1500 cd/m² at 65° UGR<16   L<1500 cd/mq @	a <sub>65</sub> . 8	4	39	48

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	69	67	65	69	66	66	64	78
1.0	76	73	71	69	72	70	70	67	83
1.5	80	78	76	74	77	75	74	72	89
2.0	83	81	79	78	80	78	77	75	93
2.5	84	83	82	81	82	81	80	78	96
3.0	85	84	83	83	83	82	81	79	98
4.0	86	85	85	84	84	84	82	80	99
5.0	87	86	86	86	85	84	83	81	100

# Luminance curve limit

ac	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 ( II-		TI	8
75°	$\left\{ -\right\}$					$\left  \left\langle \left\langle \right\rangle \right\rangle$				4
85°	1					$\rightarrow$				2
55°			-			Ň				a h
45° 1	0 <sup>2</sup>		2	3 4	5681	0 <sup>3</sup>	2 3	4 5 6	8 10 <sup>4</sup>	cd/m <sup>2</sup>
	C0-18	0					C90-270 -			

# UGR diagram

Riflect											
ce il/ca		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
walls work pl.		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
Room dim		222023		viewed			0.0000000		viewed		
x	У		c	rosswis	е				endwise		
2H	2H	11.9	14.0	12.3	14.3	14.6	11.9	14.0	12.3	14.3	14.6
	ЗH	11.8	13.3	12.2	13.7	14.0	11.8	13.3	12.2	13.7	14.0
	4H	11.7	13.0	12.1	13.4	13.7	11.7	13.0	12.1	13.4	13.7
	6H	11.7	12.8	12.0	13.1	13.5	11.7	12.8	12.0	13.1	13.5
	HS	11.6	12.7	12.0	13.0	13.4	11.6	12.7	12.0	13.0	13.4
	12H	11.6	12.6	12.0	13.0	13.4	11.6	12.6	12.0	13.0	13.4
4H	2H	11.7	13.0	12.1	13.4	13.7	11.7	13.0	12.1	13.4	13.7
	ЗH	11.6	12.6	12.0	13.0	13.4	11.6	12.6	12.0	13.0	13.4
	4H	11.5	12.5	11.9	12.8	13.2	11.5	12.5	11.9	12.8	13.2
	6H	11.1	12.7	11.6	13.1	13.6	11.1	12.7	11.6	13.1	13.6
	HS	11.0	12.8	11.5	13.2	13.7	11.0	12.8	11.5	13.2	13.7
	12H	10.9	12.8	11.4	13.2	13.8	10.9	12.8	11.4	13.2	13.8
вн	4H	11.0	12.8	11.5	13.2	13.7	11.0	12.8	11.5	13.2	13.7
	6H	10.9	12.6	11.4	13.1	13.6	10.9	12.6	11.4	13.1	13.6
	8H	10.8	12.4	11.4	12.9	13.4	10.8	12.4	11.4	12.9	13.4
	12H	11.0	12.0	11.5	12.5	13.0	11.0	12.0	11.5	12.5	13.0
2H	4H	10.9	12.8	11.4	13.2	13.8	10.9	12.8	11.4	13.2	13.8
	6H	10.8	12.4	11.4	12.9	13.4	10.8	12.4	11.4	12.9	13.4
	H8	11.0	12.0	11.5	12.5	13.0	11.0	12.0	11.5	12.5	13.0
Variat	ions wi	th the ot	pserverp	osition	at spacin	g:					
=	1.0H		7.	0 / -22	.7	7.0 / -22.7					
	1.5H		9.	8 / -23	2	9.8 / -23.2					
	1.5H 2.0H			8 / -23 .8 / -23					.8 / -23 .8 / -23		