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**Laser Blade**

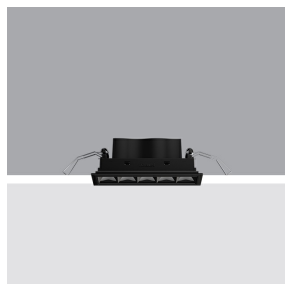
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Last information update: March 2025

**Product configuration: MM78.43**

MM78.43: 5 - cell Recessed luminaire - LED - Warm white - Incorporated DALI dimmable luminaire supply - Wide Flood optic - 13W  
704.9lm - 2700K - CRI 95 - Black / Black



## Product code

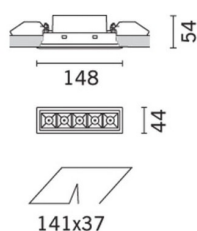
MM78.43: 5 - cell Recessed luminaire - LED - Warm white - Incorporated DALI dimmable power supply - Wide Flood optic - 13W  
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## Technical description

rectangular miniaturised recessed luminaire with 5 optical elements with LED lamps - fixed optics - wide flood beam angle. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Metallised thermoplastic high definition optics, integrated in a rear position in the black anti-glare screen; the structure of the optical system prevents a pinpoint effect, allowing precise, circular light distribution and emission with controlled glare. Supplied with DALI dimmable electronic control gear connected to the luminaire. Warm white high colour rendering LED

## Installation

recessed with steel wire springs for false ceilings from 1 to 25 mm thick - preparation hole 37 x 141



Colour	Weight (Kg)
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Colour	Weight (Kg)
Black / Black (43)	0.29

## Weight (Kg)

0.29

## Mounting

mounting  
wall recessed/ceiling recessed

## Wiring

on control gear box: screw connections with terminal block included

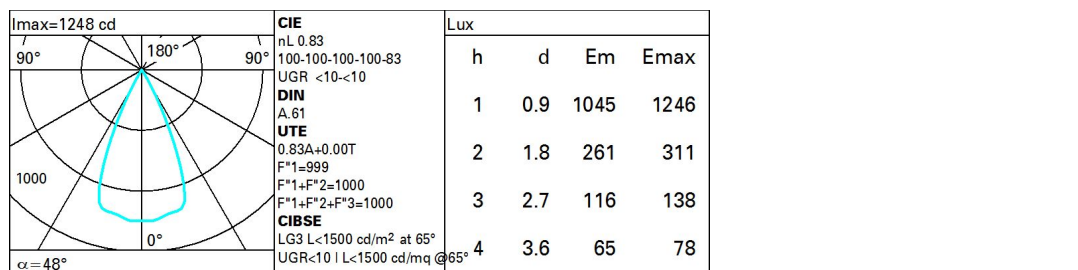
Complies with EN60598-1 and pertinent regulations



## Technical data

Im system:	705	CRI (typical):	97
W system:	13	Colour temperature [K]:	2700
Im source:	850	MacAdam Step:	3
W source:	10	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	54.2	Lamp code:	LED
Im in emergency mode:	-	Number of lamps for optical assembly:	1
Total light flux at or above an angle of 90° [Lm]:	0	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	83	Number of optical assemblies:	1
Beam angle [°]:	48°	Control:	DALI-2
CRI (minimum):	95		

## Polar



# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	75	71	68	66	70	68	68	65	78
1.0	78	75	72	70	74	72	71	69	83
1.5	82	79	77	76	79	77	76	74	89
2.0	85	83	81	80	82	80	79	77	93
2.5	86	85	84	83	84	83	82	79	96
3.0	87	86	85	85	85	84	83	81	98
4.0	88	87	87	86	86	86	84	82	99
5.0	89	88	88	88	87	86	85	83	100

# UGR diagram

Corrected UGR values (at 850 lm bare lamp luminous flux)											
Riflect.:		viewed crosswise					viewed endwise				
ceiling/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	1.5	1.9	1.7	2.2	2.4	1.5	1.9	1.7	2.2	2.4
	3H	1.3	1.8	1.6	2.0	2.3	1.3	1.8	1.6	2.0	2.3
	4H	1.3	1.7	1.6	2.0	2.3	1.3	1.7	1.6	2.0	2.2
	6H	1.2	1.6	1.5	1.9	2.2	1.2	1.6	1.5	1.9	2.2
	8H	1.2	1.5	1.5	1.8	2.2	1.2	1.5	1.5	1.8	2.2
	12H	1.1	1.5	1.5	1.8	2.1	1.1	1.5	1.5	1.8	2.1
4H	2H	1.3	1.7	1.6	2.0	2.2	1.3	1.7	1.6	2.0	2.3
	3H	1.1	1.5	1.5	1.8	2.1	1.1	1.5	1.5	1.8	2.1
	4H	1.0	1.3	1.4	1.7	2.1	1.0	1.3	1.4	1.7	2.1
	6H	0.9	1.2	1.4	1.6	2.0	0.9	1.2	1.4	1.6	2.0
	8H	0.9	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.5	2.0
	12H	0.8	1.1	1.3	1.5	1.9	0.8	1.1	1.3	1.5	1.9
8H	4H	0.9	1.1	1.3	1.5	2.0	0.9	1.1	1.3	1.5	2.0
	6H	0.8	1.0	1.3	1.4	1.9	0.8	1.0	1.3	1.4	1.9
	8H	0.7	0.9	1.2	1.4	1.9	0.7	0.9	1.2	1.4	1.9
	12H	0.7	0.8	1.2	1.3	1.8	0.7	0.8	1.2	1.3	1.8
12H	4H	0.8	1.1	1.3	1.5	1.9	0.8	1.1	1.3	1.5	1.9
	6H	0.7	0.9	1.2	1.4	1.9	0.7	0.9	1.2	1.4	1.9
	8H	0.7	0.8	1.2	1.3	1.8	0.7	0.8	1.2	1.3	1.8
Variations with the observer position at spacing:											
S =		0.9 / -18.0					0.9 / -18.0				
		9.7 / -18.3					9.7 / -18.3				
		11.7 / -18.4					11.7 / -18.4				