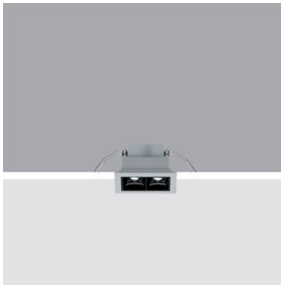


Last information update: January 2025

**Product configuration: MU90.43**

MU90.43: 2 - cell Recessed luminaire - LED Neutral white medium - 4W 339.8lm - 4000K - CRI 95 - Black / Black



**Product code**

MU90.43: 2 - cell Recessed luminaire - LED Neutral white medium - 4W 339.8lm - 4000K - CRI 95 - Black / Black

**Technical description**

rectangular miniaturised recessed luminaire with 2 optical elements with LED lamps - fixed optics - medium 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. Connecting cable supplied. Ballast not included, available with separate code. Neutral white LED.

**Installation**

recessed with steel wire springs for false ceilings from 1 to 20 mm thick - preparation hole 35 x 64

**Colour**

Black / Black (43)

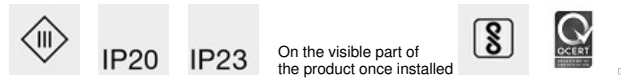
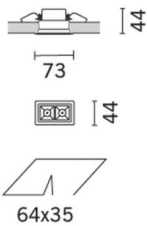
**Mounting**

wall recessed|ceiling recessed

**Wiring**

direct current ballasts to be ordered separately: electronic (MXF9) for max. 7 LEDs; 0-10V dimmable (Y360) for max. 18 LEDs; DALI dimmable (BZM4) for max. 20 LEDs (check instruction leaflet for compatible lengths of cables to be used)

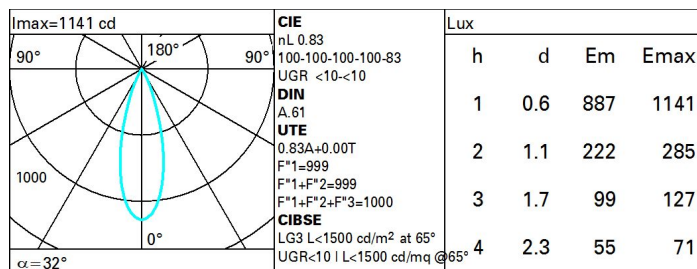
Complies with EN60598-1 and pertinent regulations



**Technical data**

lm system:	340	CRI (typical):	97
W system:	4	Colour temperature [K]:	4000
lm source:	410	MacAdam Step:	3
W source:	4	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	84.9	Lamp code:	LED
lm 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 [°]:	32°	LED current [mA]:	700
CRI (minimum):	95		

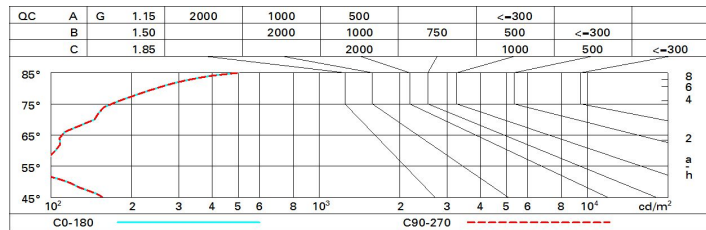
**Polar**



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	78	77	76	73	89
2.0	84	83	81	80	81	80	79	77	93
2.5	86	85	84	83	83	82	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	87	87	86	85	83	100

Luminance curve limit



UGR diagram

Corrected UGR values (at 410 lm bare lamp luminous flux)											
Reflect.:		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											
x	y										
2H	2H	-2.6	-2.1	-2.3	-1.9	-1.6	-2.6	-2.1	-2.3	-1.9	-1.6
	3H	-2.7	-2.2	-2.4	-1.9	-1.7	-2.7	-2.3	-2.4	-2.0	-1.7
	4H	-2.7	-2.3	-2.4	-2.0	-1.7	-2.8	-2.4	-2.5	-2.1	-1.8
	6H	-2.7	-2.3	-2.3	-2.0	-1.6	-2.9	-2.5	-2.5	-2.1	-1.8
	8H	-2.6	-2.2	-2.3	-1.9	-1.6	-2.9	-2.5	-2.5	-2.2	-1.8
	12H	-2.5	-2.1	-2.1	-1.8	-1.5	-2.9	-2.6	-2.6	-2.2	-1.9
4H	2H	-2.8	-2.4	-2.5	-2.1	-1.8	-2.7	-2.3	-2.4	-2.0	-1.7
	3H	-2.9	-2.5	-2.5	-2.1	-1.8	-2.8	-2.4	-2.4	-2.1	-1.7
	4H	-2.8	-2.5	-2.5	-2.2	-1.8	-2.8	-2.5	-2.5	-2.2	-1.8
	6H	-2.7	-2.5	-2.3	-2.1	-1.6	-2.9	-2.6	-2.5	-2.2	-1.8
	8H	-2.6	-2.4	-2.2	-2.0	-1.5	-2.9	-2.6	-2.5	-2.2	-1.8
	12H	-2.4	-2.2	-2.0	-1.8	-1.3	-2.9	-2.7	-2.5	-2.3	-1.8
8H	4H	-2.9	-2.6	-2.5	-2.2	-1.8	-2.6	-2.4	-2.2	-2.0	-1.5
	6H	-2.7	-2.5	-2.3	-2.1	-1.6	-2.6	-2.4	-2.1	-1.9	-1.4
	8H	-2.5	-2.4	-2.1	-1.9	-1.4	-2.5	-2.4	-2.1	-1.9	-1.4
	12H	-2.2	-2.0	-1.7	-1.5	-1.0	-2.5	-2.3	-2.0	-1.8	-1.3
12H	4H	-2.9	-2.7	-2.5	-2.3	-1.8	-2.4	-2.2	-2.0	-1.8	-1.3
	6H	-2.7	-2.5	-2.2	-2.1	-1.6	-2.3	-2.1	-1.8	-1.6	-1.1
	8H	-2.5	-2.3	-2.0	-1.8	-1.3	-2.2	-2.0	-1.7	-1.5	-1.0
Variations with the observer position at spacing:											
S =	1.0H	5.6 / -3.8				5.6 / -3.8					
	1.5H	8.3 / -4.0				8.3 / -4.0					
	2.0H	10.3 / -4.1				10.3 / -4.1					