Laser Blade
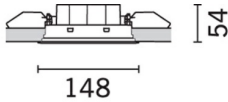
Last information update: May 2024

Product configuration: MQ58
MQ58: Recessed frame - LED - Neutral white - Incorporated DALI dimmable power supply - Diffused lighting

Product code
MQ58: Recessed frame - LED - Neutral white - Incorporated DALI dimmable power supply - Diffused lighting **Attention! Code no longer in production**

Technical description
Miniaturized recessed rectangular luminaire with LEDs. Main body with die-cast aluminium radiant surface, version with perimeter surface frame. Optical system designed for diffused lighting distribution. Flux enhancer - superpure aluminium reflector - microprism screen in transparent PMMA with optimised geometry texture; a special film in acrylic material, combined with the screen, allow for a comfortable level of lighting diffusion. Black polycarbonate internal perimeter frame. Supplied with DALI dimmable control gear connected to the luminaire. High colour rendering LED.

Installation
recessed with steel springs for false ceilings from 1 to 25 mm; can be installed on ceilings and walls (vertical + horizontal) - preparation slot 37 x 141

Colour	**Weight (Kg)**
Black / Black (43) | Black / White (47) | Grey / Black (74)	0.35

Mounting
wall recessed|ceiling recessed

Wiring
on power box: screw connections

Notes
dimming function with pushbutton (TOUCH DIM/PUSH): for this option consult the instructions included in the package
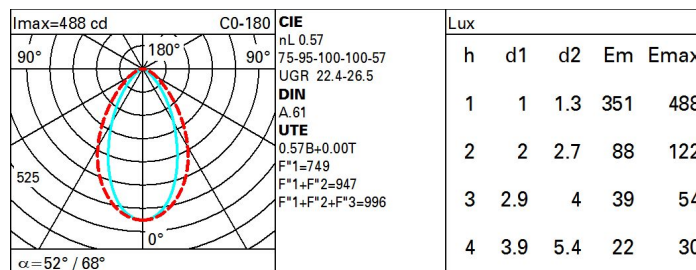
Complies with EN60598-1 and pertinent regulations

On the visible part of the product once installed

IP20 IP43 CE UKCA

Technical data

lm system:	570	CRI (typical):	97
W system:	13	Colour temperature [K]:	4000
lm source:	1000	MacAdam Step:	3
W source:	10	Life Time LED 1:	50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	43.9	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.) [%]:	57	Number of optical assemblies:	1
CRI (minimum):	95	Control:	DALI

Polar

CIE				
nL 0.57				
75-95-100-100-57				
UGR 22.4-26.5				
DIN				
A.61				
UTE				
0.57B+0.00T				
F"1=749				
F"1+F"2=947				
F"1+F"2+F"3=996				

Imax=488 cd   C0-180   α=52° / 68°

Lux				
h	d1	d2	Em	Emax
1	1	1.3	351	488
2	2	2.7	88	122
3	2.9	4	39	54
4	3.9	5.4	22	30

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	45	41	38	35	40	37	37	34	60
1.0	48	44	41	39	43	41	41	38	66
1.5	53	50	47	45	49	47	46	44	76
2.0	55	53	51	49	52	50	50	47	83
2.5	57	55	53	52	54	52	52	50	87
3.0	58	56	55	54	55	54	53	51	90
4.0	59	58	57	56	57	56	55	53	93
5.0	59	58	58	57	57	57	56	54	94

Luminance curve limit

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

85°												8
												6
75°												4
65°												2
55°												a
												h
45°	10²	2	3	4	5	6	8	10³	2	3	4 5 6 8 10⁴	cd/m²

C0-180 ——— C90-270 - - - - - - -
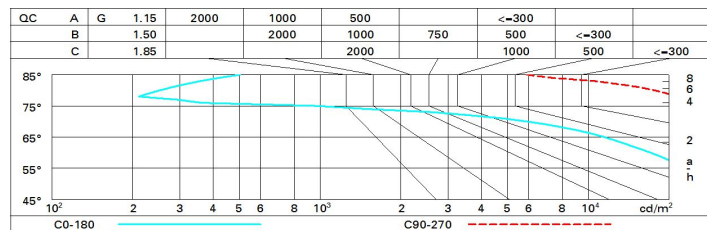
UGR diagram

Corrected UGR values (at 1000 lm bare lamp luminous flux)										
Riflect.:										
ceil/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					viewed		
x	y			crosswise					endwise		
2H	2H	22.1	22.9	22.4	23.2	23.4	25.6	26.5	25.9	26.7	27.0
	3H	22.1	22.9	22.5	23.2	23.5	25.7	26.4	26.0	26.7	27.0
	4H	22.1	22.8	22.4	23.1	23.4	25.6	26.3	26.0	26.6	27.0
	6H	22.0	22.6	22.4	23.0	23.3	25.6	26.2	25.9	26.5	26.9
	8H	22.0	22.6	22.3	22.9	23.3	25.5	26.2	25.9	26.5	26.8
	12H	21.9	22.5	22.3	22.9	23.2	25.5	26.1	25.9	26.4	26.8
4H	2H	22.5	23.2	22.9	23.5	23.8	26.5	27.2	26.8	27.5	27.8
	3H	22.6	23.2	23.0	23.5	23.9	26.6	27.2	27.0	27.6	27.9
	4H	22.5	23.0	22.9	23.4	23.8	26.6	27.2	27.0	27.5	27.9
	6H	22.4	22.9	22.9	23.3	23.7	26.6	27.0	27.0	27.4	27.9
	8H	22.4	22.8	22.8	23.2	23.7	26.5	27.0	27.0	27.4	27.8
	12H	22.3	22.7	22.8	23.2	23.6	26.5	26.9	26.9	27.3	27.8
8H	4H	22.5	22.9	23.0	23.4	23.8	26.8	27.2	27.2	27.6	28.0
	6H	22.4	22.8	22.9	23.2	23.7	26.7	27.1	27.2	27.5	28.0
	8H	22.4	22.7	22.9	23.1	23.6	26.7	27.0	27.2	27.4	27.9
	12H	22.3	22.6	22.8	23.1	23.6	26.6	26.9	27.1	27.4	27.9
12H	4H	22.5	22.9	22.9	23.3	23.7	26.7	27.1	27.2	27.5	28.0
	6H	22.4	22.7	22.9	23.2	23.7	26.7	27.0	27.2	27.5	28.0
	8H	22.3	22.6	22.8	23.1	23.6	26.6	26.9	27.2	27.4	27.9

Variations with the observer position at spacing:

S =	1.0H	1.4 / -2.0		0.4 / -0.7
	1.5H	2.2 / -4.2		1.5 / -1.6
	2.0H	3.5 / -6.6		2.8 / -2.3