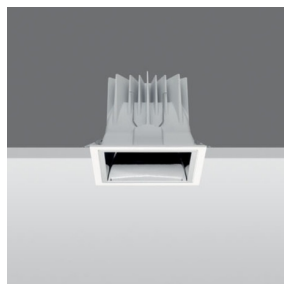


Last information update: May 2024

Product configuration: MU28

MU28: Square recess - neutral white - DALI ballast - general light optic with controlled luminance UGR<19

**Product code**MU28: Square recess - neutral white - DALI ballast - general light optic with controlled luminance UGR<19 **Attention! Code no longer in production****Technical description**

Recessed fixed square luminaire designed to use a LED lamp. Version with rim for surface-mounting. Reflector vacuum-metallised with aluminium vapours with an anti-scratch protective layer. Die-cast aluminium body and passive dissipation system. Product complete with LED unit in a neutral white tone 4000K and DALI driver separate from the luminaire. General light distribution, with controlled luminance (UGR<19).

Installation

Recessed using torsion springs which allow easy installation in false ceilings with thickness ranging from 1 mm to 20 mm.

Colour

White / Aluminium (39)

Weight (Kg)

1

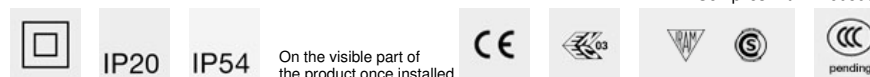
Mounting

ceiling recessed

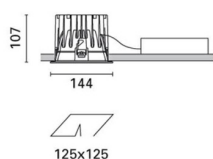
Wiring

Product complete with DALI components

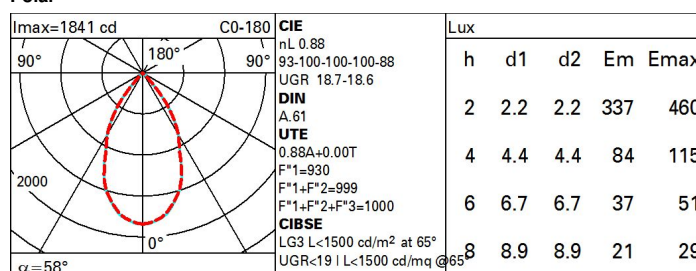
Complies with EN60598-1 and pertinent regulations



On the visible part of the product once installed

**Technical data**

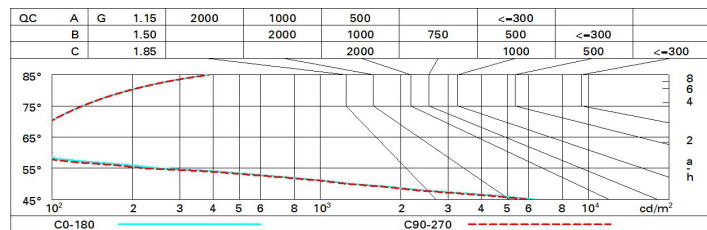
lm system:	1759	Colour temperature [K]:	4000
W system:	15.6	MacAdam Step:	3
lm source:	2000	Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
W source:	13	Lamp code:	LED
Luminous efficiency (lm/W, real value):	112.8	Number of lamps for optical assembly:	1
lm in emergency mode:	-	ZVEI Code:	LED
Total light flux at or above an angle of 90° [Lm]:	0	Number of optical assemblies:	1
Light Output Ratio (L.O.R.) [%]:	88	Control:	DALI
CRI:	80		

Polar

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	77	72	69	66	71	68	68	64	73
1.0	81	76	73	71	75	73	72	69	79
1.5	86	82	80	78	81	79	78	75	86
2.0	89	86	84	83	85	83	82	80	91
2.5	90	89	87	86	87	86	85	82	94
3.0	92	90	89	88	89	88	87	84	96
4.0	93	92	91	90	90	89	88	86	98
5.0	93	93	92	91	91	90	89	87	99

Luminance curve limit



UGR diagram

Corrected UGR values (at 2000 lm bare lamp luminous flux)											
Reflect.: ceiling/cav walls work pl. Room dim x y		viewed crosswise					viewed endwise				
		0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
		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
2H	2H	19.2	19.9	19.5	20.1	20.3	19.2	19.9	19.5	20.1	20.3
	3H	19.1	19.7	19.4	19.9	20.2	19.1	19.7	19.4	19.9	20.2
	4H	19.0	19.6	19.4	19.9	20.2	19.0	19.5	19.4	19.8	20.1
	6H	19.0	19.4	19.3	19.8	20.1	18.9	19.4	19.3	19.7	20.1
	8H	18.9	19.4	19.3	19.7	20.1	18.9	19.4	19.3	19.7	20.0
	12H	18.9	19.3	19.3	19.7	20.0	18.9	19.3	19.2	19.7	20.0
4H	2H	19.0	19.6	19.4	19.9	20.2	19.0	19.5	19.4	19.8	20.1
	3H	18.9	19.3	19.3	19.7	20.0	18.9	19.3	19.2	19.7	20.0
	4H	18.8	19.2	19.2	19.5	19.9	18.8	19.2	19.2	19.5	19.9
	6H	18.7	19.0	19.1	19.4	19.9	18.7	19.0	19.1	19.4	19.8
	8H	18.7	19.0	19.1	19.4	19.8	18.6	19.0	19.1	19.4	19.8
	12H	18.6	18.9	19.1	19.3	19.8	18.6	18.9	19.0	19.3	19.8
8H	4H	18.7	19.0	19.1	19.4	19.8	18.6	19.0	19.1	19.4	19.8
	6H	18.6	18.8	19.0	19.3	19.7	18.6	18.8	19.0	19.3	19.7
	8H	18.5	18.7	19.0	19.2	19.7	18.5	18.7	19.0	19.2	19.7
	12H	18.5	18.7	19.0	19.1	19.7	18.4	18.6	18.9	19.1	19.6
12H	4H	18.6	18.9	19.1	19.3	19.8	18.6	18.9	19.1	19.3	19.8
	6H	18.5	18.7	19.0	19.2	19.7	18.5	18.7	19.0	19.2	19.7
	8H	18.5	18.7	19.0	19.1	19.7	18.4	18.6	19.0	19.1	19.6
Variations with the observer position at spacing:											
S =	1.0H	4.5 / -23.0					4.6 / -23.1				
	1.5H	6.1 / -24.6					6.2 / -24.6				
	2.0H	8.1 / -24.8					8.2 / -24.8				