

**Product configuration: MQ78.47****Product code**

### Technical description

## Installation

**Colour**  
Black / White (47)

Weight (Kg)  
0.29

## Mounting

meaning  
wall recessed|ceiling recessed

## Wiring

on control gear box: screw connections with terminal block included

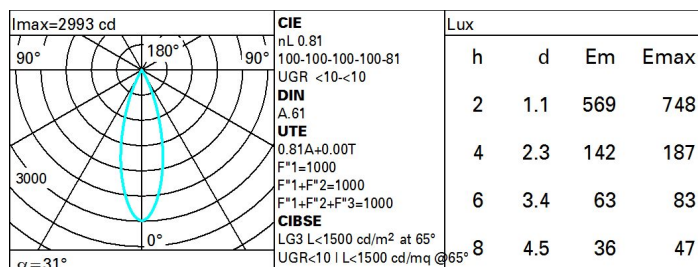
Complies with EN60598-1 and pertinent regulations



## Technical data

lm system:	891	CRI (typical):	92
W system:	13	Colour temperature [K]:	3000
lm source:	1100	MacAdam Step:	3
W source:	9.9	Life Time LED 1:	> 50,000h - L90 - B10 (Ta 25°C)
Luminous efficiency (lm/W, real value):	68.5	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.) [%]:	81	Number of optical assemblies:	1
Beam angle [°]:	32°	Control:	DALI-2
CRI (minimum):	90		

## Polar



# Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	73	70	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	78	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	81	99
5.0	87	86	86	86	85	84	83	81	100

# UGR diagram

Corrected UGR values (at 1100 lm bare lamp luminous flux)											
Reflect.:		viewed crosswise					viewed endwise				
ceiling		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	-7.8	-7.3	-7.5	-7.1	-6.8	-7.8	-7.3	-7.5	-7.1	-6.8
	3H	-7.9	-7.5	-7.6	-7.2	-6.9	-7.9	-7.5	-7.6	-7.2	-6.9
	4H	-8.0	-7.6	-7.7	-7.3	-7.0	-8.0	-7.6	-7.7	-7.3	-7.0
	6H	-8.1	-7.7	-7.7	-7.4	-7.0	-8.1	-7.7	-7.7	-7.4	-7.1
	8H	-8.1	-7.7	-7.8	-7.4	-7.1	-8.1	-7.7	-7.8	-7.4	-7.1
	12H	-8.1	-7.8	-7.8	-7.4	-7.1	-8.2	-7.8	-7.8	-7.5	-7.1
4H	2H	-8.0	-7.6	-7.7	-7.3	-7.0	-8.0	-7.6	-7.7	-7.3	-7.0
	3H	-8.2	-7.8	-7.8	-7.5	-7.1	-8.2	-7.8	-7.8	-7.4	-7.1
	4H	-8.2	-7.9	-7.9	-7.6	-7.2	-8.2	-7.9	-7.9	-7.6	-7.2
	6H	-8.3	-8.0	-7.9	-7.6	-7.2	-8.3	-8.0	-7.9	-7.6	-7.2
	8H	-8.4	-8.1	-7.9	-7.7	-7.2	-8.4	-8.1	-7.9	-7.7	-7.3
	12H	-8.4	-8.2	-7.9	-7.7	-7.3	-8.4	-8.2	-8.0	-7.8	-7.3
8H	4H	-8.4	-8.1	-7.9	-7.7	-7.3	-8.4	-8.1	-7.9	-7.7	-7.2
	6H	-8.5	-8.2	-8.0	-7.8	-7.3	-8.4	-8.2	-8.0	-7.8	-7.3
	8H	-8.5	-8.3	-8.0	-7.8	-7.3	-8.5	-8.3	-8.0	-7.8	-7.3
	12H	-8.5	-8.3	-8.0	-7.9	-7.3	-8.5	-8.4	-8.0	-7.9	-7.4
12H	4H	-8.4	-8.2	-8.0	-7.8	-7.3	-8.4	-8.2	-7.9	-7.7	-7.3
	6H	-8.5	-8.3	-8.0	-7.9	-7.4	-8.5	-8.3	-8.0	-7.8	-7.3
	8H	-8.5	-8.4	-8.0	-7.9	-7.4	-8.5	-8.3	-8.0	-7.9	-7.3
Variations with the observer position at spacing:											
S =		6.7 / -11.6					6.7 / -11.6				
		9.6 / -12.2					9.6 / -12.2				
		11.5 / -12.6					11.5 / -12.6				