Lightshine

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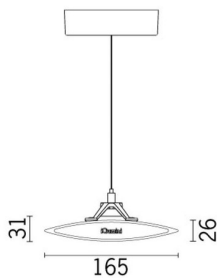
Last information update: June 2023

Product configuration: MJ31

MJ31: complete pendant luminaire L 1387 - Low Contrast - neutral white LED - up / down lighting - integrated DALI dimmable control gear - general light optic

Product code

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Technical description

Pendant luminaire with LED lamps for general light (Low Contrast): down light emission (approx. 80%) - up light emission (approx. 20%). Very thin aluminium profile, complete with end caps made of thermoplastic material. Kit complete with suspension cables and power cable; ceiling base attachment made of thermoplastic material with sheet steel anchor plate. PMMA diffuser screen for down light emission; frosted polycarbonate upper screens. A control system, integrated with the DALI dimmable electronic control gear, stabilises current and voltage values, guaranteeing correct LED lamp operation and longer life, also making the light flow emitted very even. Neutral white LED.

Installation

pendant; steel suspension cables; suspension supports with rapid adjustment system are positioned at the ends of the profile; base for power cable (max. L 1500 mm) with anchor plate; all ceiling attachments use screws and screw anchors (not supplied).

Colour	Weight (Kg)
White (01) | Grey (15)	4.42

Mounting

ceiling pendant

Wiring

connected to the mains using a standard 5-pin terminal block on the power base. Product complete with DALI dimmable electronic control gear, equipped with current stabiliser, integrated in the module. Down light / up light switch on separation: not available.
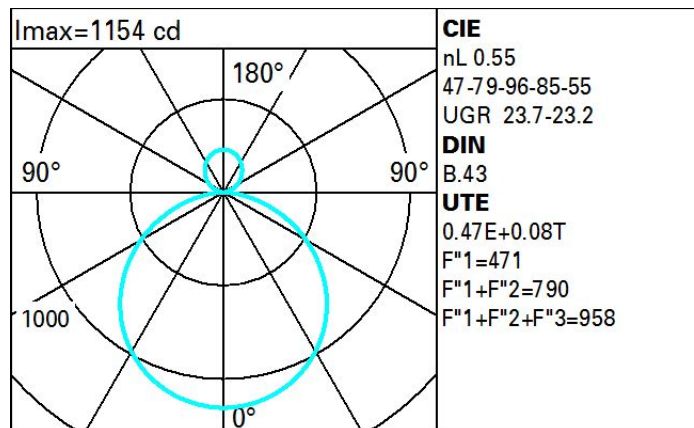
Complies with EN60598-1 and pertinent regulations

IP20   CE

Technical data

lm system:	3905	Colour temperature [K]:	4000
W system:	46.4	MacAdam Step:	3
lm source:	7100	Life Time LED 1:	> 50,000h - L80 - B10 (Ta 25°C)
W source:	39.4	Ballast losses [W]:	7
Luminous efficiency (lm/W, real value):	84.2	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]:	587	ZVEI Code:	LED
Light Output Ratio (L.O.R.) [%]:	55	Number of optical assemblies:	1
CRI (minimum):	80	Control:	DALI

Polar

Imax=1154 cd

CIE
nL 0.55
47-79-96-85-55
UGR 23.7-23.2
DIN
B.43
UTE
0.47E+0.08T
F"1=471
F"1+F"2=790
F"1+F"2+F"3=958

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	34	29	25	22	27	23	22	18	39
1.0	38	32	29	26	31	27	26	22	46
1.5	43	39	36	33	37	34	32	28	59
2.0	46	43	40	38	41	38	36	32	68
2.5	48	45	43	41	43	41	39	35	74
3.0	50	47	45	43	45	43	41	36	78
4.0	52	49	48	46	47	45	43	39	83
5.0	53	51	49	48	48	47	45	40	86

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

C0-180   C90-270
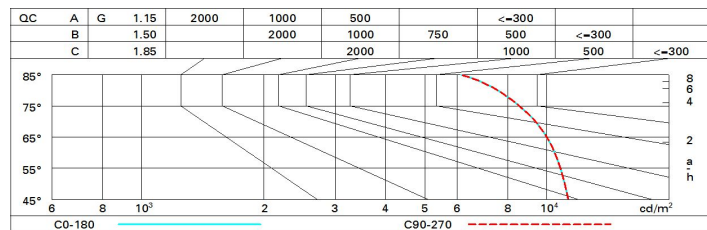
UGR diagram

Corrected UGR values (at 7100 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		

x	y			crosswise					endwise		
2H	2H	20.0	21.0	20.6	21.5	22.1	20.0	21.0	20.6	21.5	22.1
	3H	21.5	22.4	22.1	23.0	23.6	20.5	21.4	21.1	21.9	22.5
	4H	22.1	22.9	22.7	23.5	24.1	20.7	21.5	21.2	22.0	22.7
	6H	22.5	23.3	23.1	23.8	24.5	20.7	21.5	21.3	22.0	22.7
	8H	22.6	23.4	23.2	23.9	24.6	20.7	21.4	21.3	22.0	22.7
	12H	22.7	23.4	23.3	24.0	24.7	20.7	21.4	21.3	22.0	22.6
4H	2H	20.7	21.5	21.2	22.0	22.7	22.1	22.9	22.7	23.5	24.1
	3H	22.3	23.0	22.9	23.6	24.3	22.7	23.4	23.3	24.0	24.7
	4H	23.0	23.6	23.6	24.2	24.9	23.0	23.6	23.6	24.2	24.9
	6H	23.5	24.1	24.2	24.7	25.4	23.2	23.7	23.8	24.4	25.1
	8H	23.7	24.2	24.4	24.8	25.6	23.2	23.7	23.9	24.4	25.1
	12H	23.8	24.2	24.5	24.9	25.7	23.2	23.7	23.9	24.3	25.1
8H	4H	23.2	23.7	23.9	24.4	25.1	23.7	24.2	24.4	24.8	25.6
	6H	23.9	24.3	24.6	25.0	25.8	24.0	24.4	24.7	25.1	25.9
	8H	24.1	24.5	24.8	25.2	26.0	24.1	24.5	24.8	25.2	26.0
	12H	24.3	24.6	25.0	25.3	26.1	24.2	24.5	24.9	25.2	26.0
12H	4H	23.2	23.7	23.9	24.3	25.1	23.8	24.2	24.5	24.9	25.7
	6H	23.9	24.3	24.6	25.0	25.8	24.1	24.5	24.8	25.2	26.0
	8H	24.2	24.5	24.9	25.2	26.0	24.3	24.6	25.0	25.3	26.1

Variations with the observer position at spacing:

S =	1.0H	0.1 / -0.1	0.1 / -0.1
	1.5H	0.3 / -0.4	0.3 / -0.4
	2.0H	0.4 / -0.6	0.4 / -0.6