Drop by Drop

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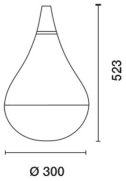
Last information update: April 2025

Product configuration: TRR3
TRR3: Pendant luminaire with emission for accent lighting.

Product code
TRR3: Pendant luminaire with emission for accent lighting.

Technical description
Pendant luminaire for accent lighting. LED lamp. Shell body in chrome finish acrylic glass. The central optical assembly is fitted with a high efficiency Opti Beam reflector in superpure aluminium that creates a concentrated, but comfortable emission with a low luminance index. Base with a steel ceiling fixing plate. Transparent power cable and L=2000 mm steel pendant cable. DALI dimmable electronic driver integrated in luminaire body.

Installation
Pendant-mounted from ceiling - Steel plate for fixing to installation surface (screw anchors not included) - with cover base; power and pendant cables can be lengthened or shortened on base connections.



Colour
Chrome (10)*

Weight (Kg)
4

* Colours on request

Mounting
ceiling pendant

Wiring
Connection terminal block on fixing plate.

Complies with EN60598-1 and pertinent regulations

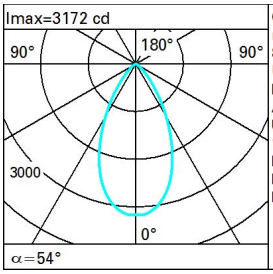
IP20

Technical data

lm system:	2730
W system:	37.5
lm source:	-
W source:	-
Luminous efficiency (lm/W, real value):	72.8
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	100
Beam angle [°]:	54°
CRI (minimum):	80
Colour temperature [K]:	3000
MacAdam Step:	3

Life Time LED 1:	50,000h - L80 - B10 (Ta 25°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Power factor:	See installation instructions
Inrush current:	20 A / 50 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 34 luminaires B16A: 55 luminaires C10A: 57 luminaires C16A: 93 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 2kV Differential mode
Control:	DALI-2

Polar



CIE
nL 1.00
88-98-100-100-100
UGR 24.2-24.2
DIN
A.61
UTE
1.00A+0.00T
F"1=883
F"1+F"2=984
F"1+F"2+F"3=999

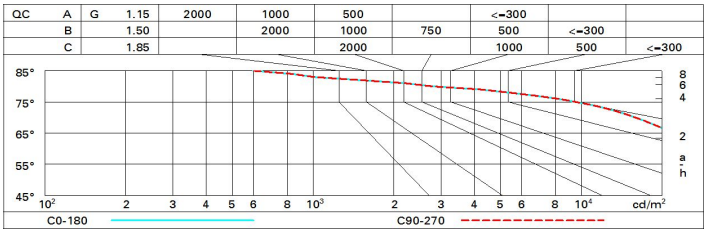
Lux

h	d	Em	Emax
2	2	592	792
4	4.1	148	198
6	6.1	66	88
8	8.2	37	49

Utilisation factors

R	77	75	73	71	55	53	33	00	DRR
K0.8	85	79	75	72	78	74	74	70	70
1.0	90	84	80	78	83	80	79	75	75
1.5	96	92	89	86	91	88	87	83	83
2.0	100	97	94	92	95	93	92	89	89
2.5	102	99	98	96	98	96	95	92	92
3.0	103	102	100	99	100	99	97	94	94
4.0	105	103	102	101	102	101	99	96	96
5.0	106	105	104	103	103	102	100	98	98

Luminance curve limit



UGR diagram

Corrected UGR values (at 2730 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 crosswise					viewed endwise		
x	y										
2H	2H	24.4	25.2	24.7	25.4	25.6	24.4	25.2	24.7	25.4	25.6
	3H	24.4	25.1	24.7	25.3	25.6	24.4	25.0	24.7	25.3	25.6
	4H	24.4	25.0	24.7	25.3	25.6	24.3	24.9	24.7	25.2	25.5
	6H	24.3	24.9	24.7	25.2	25.5	24.3	24.8	24.6	25.1	25.5
	8H	24.3	24.8	24.6	25.1	25.5	24.2	24.8	24.6	25.1	25.4
	12H	24.2	24.7	24.6	25.1	25.4	24.2	24.7	24.6	25.0	25.4
4H	2H	24.3	24.9	24.7	25.2	25.5	24.4	25.0	24.7	25.3	25.6
	3H	24.4	24.9	24.7	25.2	25.6	24.4	24.9	24.7	25.2	25.6
	4H	24.3	24.8	24.7	25.1	25.5	24.3	24.8	24.7	25.1	25.5
	6H	24.2	24.6	24.7	25.0	25.4	24.2	24.6	24.7	25.0	25.4
	8H	24.2	24.5	24.6	25.0	25.4	24.2	24.6	24.6	25.0	25.4
	12H	24.1	24.5	24.6	24.9	25.4	24.1	24.5	24.6	24.9	25.4
8H	4H	24.2	24.6	24.6	25.0	25.4	24.2	24.5	24.6	25.0	25.4
	6H	24.1	24.4	24.6	24.9	25.3	24.1	24.4	24.6	24.9	25.3
	8H	24.1	24.3	24.6	24.8	25.3	24.1	24.3	24.6	24.8	25.3
	12H	24.0	24.2	24.5	24.7	25.2	24.0	24.2	24.5	24.7	25.2
12H	4H	24.1	24.5	24.6	24.9	25.4	24.1	24.5	24.6	24.9	25.4
	6H	24.1	24.3	24.6	24.8	25.3	24.1	24.3	24.5	24.8	25.3
	8H	24.0	24.2	24.5	24.7	25.2	24.0	24.2	24.5	24.7	25.2

Variations with the observer position at spacing:

S =			
	1.0H	2.7 / -4.2	2.7 / -4.2
	1.5H	5.1 / -6.3	5.1 / -6.3
	2.0H	7.1 / -7.6	7.1 / -7.6