Lingotto

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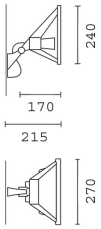
Product configuration: TXE1
TXE1: Spotlight with arm and swivel joint - Warm White LED - DALI electronic control gear - Very Wide Flood optic



Product code
TXE1: Spotlight with arm and swivel joint - Warm White LED - DALI electronic control gear - Very Wide Flood optic

Technical description
Spotlight for exteriors, designed to use Warm White LED lamps, built-in dimmable DALI electronic control gear and a Very Wide Flood optic. Can be ground, floor or wall mounted (using screw anchors) or installed on pole mounting systems. Consists of an optical assembly, an arm with a swivel joint and a glass-holding frame. The optical assembly, arm with swivel joint and glass-holding frame are made of EN1706AC 46100LF aluminium alloy and subjected to a multi-step, pre-treatment process, in which the main phases are degreasing, fluorozirconation (a protective surface film) and sealing (with a nano-structured silane layer). The following painting stage consists of a primer and a liquid acrylic paint, cured at 150°C, with a high level of weather and UV ray resistance. The 4 mm thick, tempered, sodium-calcium, closing glass is colourless, transparent and comes complete with a seal. The seal is made of black EPDM, 50 shore rubber. The product comes complete with a warm white, monochrome LED circuit, an optic with an anodised super-pure aluminium reflector, a black optic cover with a methacrylate screen and a built-in electronic ballast. The frame comes complete with steel retaining cables. The arm with the swivel joint allows it to be adjusted vertically by 145° (-90°+55°) and horizontally by 360°. The product is supplied with a nickel-plated brass cable gland and a L=500mm outlet cable for connecting directly to the mains voltage. All external screws used are made of A2 stainless steel.

Installation
The luminaire can be floor, ceiling or wall-mounted using the arm with the swivel joint that can be secured with screw anchors (Fisher type or similar) for concrete, cement and solid brick or using one of the various available accessories (like the mounting box and the various plates).. It can also be installed on poles using steel flanges (suitable for 40÷60mm and 60÷102mm diameters) combined with the appropriate mounting boxes.

Colour	**Weight (Kg)**
Grey / Yellow (73)	2.38

Mounting
wall arm|ground surface|wall surface|ground anchored|pole-top side entry|wall bracket|surface box|ceiling surface|free standing

Wiring
Control gear complete with dimmable DALI electronic ballast (220÷240Vac 50/60Hz)

Notes
Overvoltage protection: 2kV Common Mode (CM), 1kV Differential Mode (DM) If the mounting box with SPD (cod.TXE4) accessory is used, the overvoltage protection must be increased to 10kV/10kV (CM/DM).

Complies with EN60598-1 and pertinent regulations

IK07 IP66

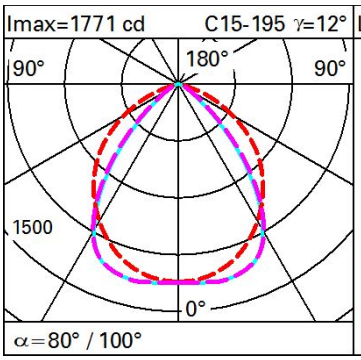
Technical data

lm system:	3608
W system:	43.9
lm source:	4400
W source:	39
Luminous efficiency (lm/W, real value):	82.2
lm in emergency mode:	-
Total light flux at or above an angle of 90° [Lm]:	0
Light Output Ratio (L.O.R.) [%]:	82
Beam angle [°]:	80° / 100°
CRI (minimum):	80
Colour temperature [K]:	3000
MacAdam Step:	2
Life Time LED 1:	100,000h - L80 - B10 (Ta 25°C)

Life Time LED 2:	69,000h - L80 - B10 (Ta 40°C)
Lamp code:	LED
Number of lamps for optical assembly:	1
ZVEI Code:	LED
Number of optical assemblies:	1
Intervallo temperatura ambiente:	from -20°C to +35°C. (*)
Power factor:	See installation instructions
Inrush current:	28 A / 165 µs
Maximum number of luminaires of this type per miniature circuit breaker:	B10A: 17 luminaires B16A: 28 luminaires C10A: 29 luminaires C16A: 47 luminaires
Minimum dimming %:	1
Overvoltage protection:	2kV Common mode & 1kV Differential mode
Control:	DALI-2

* Preliminary data

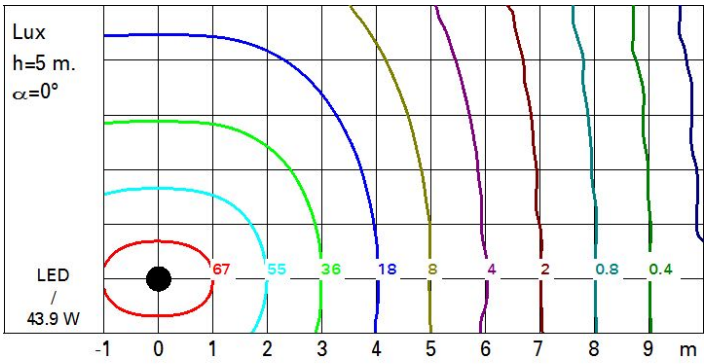
Polar



Lux

h	d1	d2	Em	Emax
4	6.7	9.5	73	109
8	13.4	19.1	18	27
12	20.1	28.6	8	12
16	26.9	38.1	5	7

Isolux



UGR diagram

Corrected UGR values (at 4400 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 x	y			viewed crosswise					viewed endwise		
2H	2H	27.3	28.3	27.6	28.5	28.8	32.0	33.0	32.3	33.2	33.5
	3H	27.3	28.2	27.7	28.5	28.7	32.1	32.9	32.4	33.2	33.5
	4H	27.3	28.1	27.6	28.4	28.7	32.0	32.8	32.4	33.1	33.4
	6H	27.2	27.9	27.6	28.3	28.6	31.9	32.7	32.3	33.0	33.3
	8H	27.2	27.9	27.6	28.2	28.6	31.9	32.6	32.3	32.9	33.3
	12H	27.2	27.8	27.5	28.2	28.5	31.9	32.5	32.3	32.9	33.2
4H	2H	28.0	28.7	28.3	29.0	29.4	32.9	33.7	33.2	34.0	34.3
	3H	28.0	28.7	28.4	29.0	29.4	33.0	33.7	33.4	34.1	34.4
	4H	28.0	28.6	28.4	28.9	29.3	33.0	33.6	33.4	34.0	34.4
	6H	27.9	28.4	28.3	28.8	29.2	33.0	33.5	33.4	33.9	34.3
	8H	27.9	28.3	28.3	28.8	29.2	32.9	33.4	33.4	33.8	34.2
	12H	27.8	28.2	28.3	28.7	29.1	32.9	33.3	33.3	33.7	34.2
8H	4H	28.1	28.5	28.5	28.9	29.4	32.9	33.4	33.4	33.8	34.2
	6H	28.0	28.4	28.5	28.8	29.3	32.9	33.2	33.3	33.7	34.2
	8H	28.0	28.3	28.4	28.7	29.2	32.8	33.1	33.3	33.6	34.1
	12H	27.9	28.2	28.4	28.7	29.2	32.8	33.0	33.3	33.5	34.1
12H	4H	28.0	28.4	28.5	28.9	29.3	32.9	33.3	33.3	33.7	34.2
	6H	28.0	28.3	28.4	28.7	29.2	32.8	33.1	33.3	33.6	34.1
	8H	27.9	28.2	28.4	28.7	29.2	32.8	33.0	33.3	33.5	34.1

Variations with the observer position at spacing:

S =			
	1.0H	1.4 / -2.7	0.5 / -0.5
	1.5H	2.3 / -5.1	0.7 / -1.5
	2.0H	3.5 / -6.8	1.8 / -2.0