STOANE LIGHTING

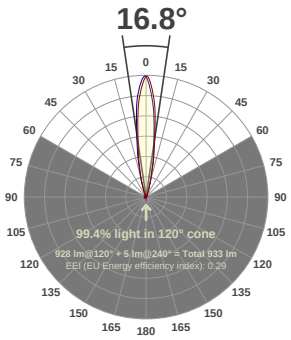
EQUIPMENT DESIGN + MANUFACTURE

Fitting name:
MSL_GTX2.50_9mm Xicato XTM_80CRI_3000K_1300lm_Narrow

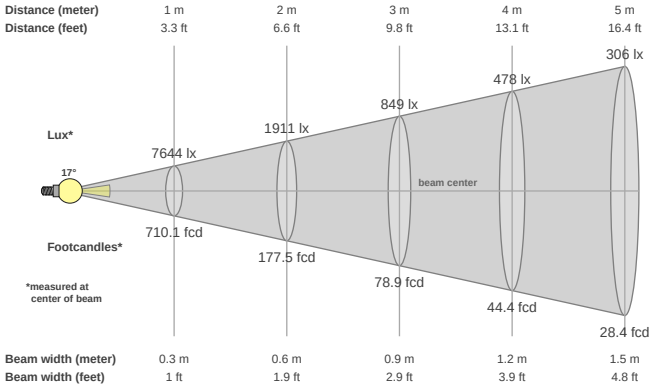
Date:
13/03/2018

Delivered Output: 928 Lumen

LOR: 71% *



Beam details



Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
16.8°	**34.9°**	**47.9°**

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone
7784 cd	**99.4%**	**98.8%**

Beam intensities from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft	36.1ft	39.4ft	42.7ft	45.9ft	49.2ft	52.5ft	55.8ft	59.1ft	62.3ft	65.6ft
7644lx	1911lx	849lx	478lx	306lx	212lx	156lx	119lx	94lx	76lx	63lx	53lx	45lx	39lx	34lx	30lx	26lx	24lx	21lx	19lx
710.1fcd	177.5fcd	78.9fcd	44.4fcd	28.4fcd	19.7fcd	14.5fcd	11.1fcd	8.8fcd	7.1fcd	5.9fcd	4.9fcd	4.2fcd	3.6fcd	3.2fcd	2.8fcd	2.5fcd	2.2fcd	2fcd	1.8fcd

Files are generated using the highest CRI and highest output 3000K light source available in the luminaire, other lower outputs and colour temperatures are of course available. Other outputs and colour temperatures are available on request, these may take some time as they must be tested.

* These files are absolute measurements, not relative, as such the LOR is not generated when testing a fitting. To get an idea of LOR we use the measured delivered output in the files and documentation and calculate a ratio using the light source output mentioned in the file and product names. Note that the source output files will be nominal figures provided to us by the light source manufacturers and assuming a max 35°C ambient temperature so this LOR is as stated an indication only.

The power figures in the files have been generated based on the voltage and current to the light source only, not allowing for any driver losses. This is because our fittings are used with a number of different drivers (sometimes integral) and loaded differently, these variations effect the driver power factor and efficiency which in turn skews the power consumption figure.

Files are not always available for the specific combination of beam, accessory, driver selected, so these can be specifically requested. As with requests for specific colour temperatures this can take some time to generate as these combinations must be made then scheduled in to testing. MSL will advise on how long requests for specific data are likely to take.

MSL advise that lighting designers apply a +/- 5% tolerance allowance on the files we provide as subtle variations in system components (eg slight variations in output of LED light sources through a bin) and ambient temperature variations can effect output and distribution slightly.

Glare Evaluation According to UGR

p Ceiling		70	70	50	50	30	70	70	50	50	30
p Walls		50	30	50	30	30	50	30	50	30	30
p Floor		20	20	20	20	20	20	20	20	20	20
Room size X	Y	Viewing direction at right angles to lamp axis					Viewing direction parallel to lamp axis				
2H	2H	7.9	8.6	8.2	8.8	9.0	3.1	3.8	3.4	4.0	4.2
	3H	7.8	8.4	8.1	8.6	8.9	3.0	3.6	3.3	3.8	4.0
	4H	7.7	8.3	8.0	8.5	8.8	2.9	3.5	3.2	3.7	4.0
	6H	7.7	8.2	8.0	8.5	8.7	2.9	3.4	3.2	3.6	3.9
	8H	7.6	8.1	8.0	8.4	8.7	2.8	3.3	3.2	3.6	3.9
	12H	7.6	8.1	7.9	8.4	8.7	2.8	3.2	3.1	3.5	3.9
4H	2H	7.8	8.3	8.1	8.6	8.9	3.0	3.5	3.3	3.8	4.0
	3H	7.7	8.1	8.0	8.4	8.7	2.8	3.3	3.1	3.6	3.9
	4H	7.6	8.0	7.9	8.3	8.6	2.7	3.1	3.1	3.5	3.8
	6H	7.5	7.8	7.9	8.2	8.6	2.7	3.0	3.1	3.3	3.7
	8H	7.5	7.7	7.9	8.1	8.5	2.6	2.9	3.0	3.3	3.7
	12H	7.4	7.7	7.9	8.1	8.5	2.6	2.8	3.0	3.2	3.6
8H	4H	7.5	7.7	7.9	8.1	8.5	2.6	2.9	3.0	3.3	3.7
	6H	7.4	7.6	7.8	8.0	8.4	2.5	2.7	3.0	3.2	3.6
	8H	7.3	7.5	7.8	7.9	8.4	2.5	2.7	2.9	3.1	3.6
	12H	7.3	7.4	7.8	7.9	8.4	2.4	2.6	2.9	3.0	3.5
12H	4H	7.4	7.7	7.9	8.1	8.5	2.6	2.8	3.0	3.2	3.6
	6H	7.3	7.5	7.8	7.9	8.4	2.5	2.7	2.9	3.1	3.6
	8H	7.3	7.4	7.8	7.9	8.4	2.4	2.6	2.9	3.0	3.5
Variation of the observer position for the luminaire distance S											
S = 1.0H		+5.0 / -10.8					+5.8 / -13.1				
S = 1.5H		+7.4 / -18.4					+8.6 / -18.1				
S = 2.0H		+9.2 / -89.8					+10.6 / -83.9				
Standard table		BK00					BK00				
Correction summand		-10.7					-15.5				
Corrected glare indices referring to 928lm total luminous flux											