STOANE LIGHTING

EQUIPMENT DESIGN + MANUFACTURE

Fitting name:

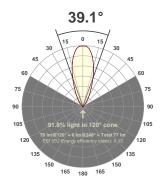
MSL_FXD Type S_Oslon Type S_95CRI_3000K_137Im_Flood

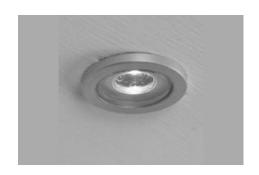
Date:

04/10/2017

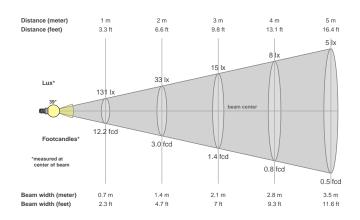
Delivered Output: 70.4 Lumen

LOR: 51% *





Beam details



Beam angle

Deam angles		
Beam angle 50%	Field angle 10%	Cutoff angle 2,5%
39.1°	75.1°	92°

Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone			
131 cd	91.8%	89.1%			

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
131lx	33lx	15lx	8lx	5lx	4lx	3lx	2lx	2lx	1lx	0lx	0lx	0lx	0lx						
12.2fcd	3fcd	1.4fcd	0.8fcd	0.5fcd	0.3fcd	0.2fcd	0.2fcd	0.2fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0.1fcd	0fcd	0fcd	0fcd	0fcd	0fcd

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 F C												00		
Proper 20 20 20 20 20 20 20 2			70	70	50	50	30	70	70	50	50	30		
Norm size X Y Viewing direction at right angles to lamp axis Viewing direction parallel to lamp axis	p Walls		50	30	50	30	30	50	30	50	30	30		
Name	p Floor		20	20	20	20	20	20	20	20	20	20		
2H	Room	size	View	•		-	es to	Viewir	ng directi	on paral	lel to lam	np axis		
Standard table Stan	X	Υ		l	amp axis	8								
Harmonian	2H 2H		21.0	21.7	21.3	21.9	22.1	21.0	21.7	21.3	21.9	22.1		
6H 20.7 21.3 21.1 21.6 21.8 20.7 21.3 21.1 21.6 21.8 8H 20.7 21.2 21.0 21.5 21.8 20.7 21.2 21.0 21.5 21.8 4H 2H 20.8 21.4 21.1 21.7 21.9 20.8 21.4 21.1 21.7 21.9 3H 20.7 21.2 21.0 21.5 21.8 20.7 21.2 21.0 21.5 21.8 4H 2H 20.8 21.4 21.1 21.7 21.9 20.8 21.4 21.1 21.5 21.8 4H 2D.6 20.1 21.0 21.5 21.8 20.7 21.2 21.0 21.5 21.8 4H 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 8H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6	3H		20.9	21.5	21.2	21.7	22.0	20.9	21.5	21.2	21.7	22.0		
Second	4H		20.8	21.4	21.1	21.6	21.9	20.8	21.4	21.1	21.6	21.9		
12H 20.7 21.1 21.0 21.5 21.8 20.7 21.1 21.0 21.5 21.8 4H 2H 20.8 21.4 21.1 21.7 21.9 20.8 21.4 21.1 21.7 21.9 3H 20.7 21.2 21.0 21.5 21.8 20.7 21.2 21.0 21.5 21.8 4H 20.6 21.1 21.0 21.4 21.7 20.6 21.1 21.0 21.4 21.7 6H 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 8H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 12H 20.5 20.7 20.9 21.1 21.6 20.5 20.8 20.9 21.2 21.6 6H 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 20.5 20.8 20.0 21.4 20.3 20.5 20.8 21.0 21.4 8H 20.5 20.8 20.9 20.8 20.9 21.1 21.6 20.5 20.8 20.8 20.9 8H 20.5 20.8 20.8 20.9 21.1 21.5 20.4 20.6 20.8 20.8 20.9 8		6H	20.7	21.3	21.1	21.6	21.8	20.7	21.3	21.1	21.6	21.8		
4H 2H 20.8 21.4 21.1 21.7 21.9 20.8 21.4 21.1 21.7 21.9 3H 20.7 21.2 21.0 21.5 21.8 20.7 21.2 21.0 21.5 21.8 4H 20.6 21.1 21.0 21.4 21.7 20.6 21.1 21.0 21.4 21.7 6H 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 8H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 8H 4H 20.5 20.8 20.9 21.1 21.6 20.5 20.8 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.1 21.6 20.5 20.8 20.9 21.1 21.6 20.5 20.8 20.9 21.1 21.5 20.4 20.6 20.8 21.0 21.5 20.4 2		8H	20.7	21.2	21.0	21.5	21.8	20.7	21.2	21.0	21.5	21.8		
3H 20.7 21.2 21.0 21.5 21.8 20.7 21.2 21.0 21.5 21.8 4H 20.6 21.1 21.0 21.4 21.7 20.6 21.1 21.0 21.4 21.7 6H 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 8H 20.5 20.8 20.9 21.1 21.6 20.5 20.8 20.9 21.2 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 6H 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 Variation of the observer position for the luminaire distance S S = 1.0H		12H	20.7	21.1	21.0	21.5	21.8	20.7	21.1	21.0	21.5	21.8		
4H 20.6 21.1 21.0 21.4 21.7 20.6 21.1 21.0 21.4 21.7 6H 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 8H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 12H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 <t< td=""><td>4H</td><td>2H</td><td>20.8</td><td>21.4</td><td>21.1</td><td>21.7</td><td>21.9</td><td>20.8</td><td>21.4</td><td>21.1</td><td>21.7</td><td>21.9</td></t<>	4H	2H	20.8	21.4	21.1	21.7	21.9	20.8	21.4	21.1	21.7	21.9		
6H 20.6 20.9 21.0 21.3 21.6 20.6 20.9 21.0 21.3 21.6 8H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 12H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 8H 4H 20.5 20.8 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 2		3H	20.7	21.2	21.0	21.5	21.8	20.7	21.2	21.0	21.5	21.8		
8H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 8H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 6H 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0	4H		20.6	21.1	21.0	21.4	21.7	20.6	21.1	21.0	21.4	21.7		
8H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 6H 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8	6H		20.6	20.9	21.0	21.3	21.6	20.6	20.9	21.0	21.3	21.6		
8H 4H 20.5 20.8 20.9 21.2 21.6 20.5 20.8 20.9 21.2 21.6 6H 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8	8H		20.5	20.8	20.9	21.2	21.6	20.5	20.8	20.9	21.2	21.6		
6H 20.4 20.7 20.9 21.1 21.5 20.4 20.7 20.9 21.1 21.5 8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 Variation of the observer position for the luminaire distance S S = 1.5H +4.2 / -7.2 +4.2 / -7.2 +6.9 / -112.8 +6.9 / -112.8 +8.8 / -110.8 S = 2.0H +8.8 / -110.8 BK00 BK00 BK00 BK00	12H		20.5	20.7	20.9	21.1	21.6	20.5	20.7	20.9	21.1	21.6		
8H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 Variation of the observer position for the luminaire distance S \$ = 1.0H \$ +4.2 / -7.2 \$ +4.2 / -7.2 \$ +6.9 / -112.8 \$ +6.9 / -112.8 \$ +8.8 / -110.8 S = 2.0H \$ BK00 \$ BK00	8H 4H		20.5	20.8	20.9	21.2	21.6	20.5	20.8	20.9	21.2	21.6		
12H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 Variation of the observer position for the luminaire distance S S = 1.0H +4.2 / -7.2 +4.2 / -7.2 +4.2 / -7.2 +46.9 / -112.8 +6.9 / -112.8 +8.8 / -110.8 S = 2.0H +8.8 / -110.8 BK00 BK00 Correction summand		6H	20.4	20.7	20.9	21.1	21.5	20.4	20.7	20.9	21.1	21.5		
12H 4H 20.5 20.7 20.9 21.1 21.6 20.5 20.7 20.9 21.1 21.6 6H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 Variation of the observer position for the luminaire distance S S = 1.0H +4.2 / -7.2 +4.2 / -7.2 S = 1.5H +6.9 / -112.8 +6.9 / -112.8 S = 2.0H +8.8 / -110.8 BK00 BK00 Correction summand		8H	20.4	20.6	20.8	21.0	21.5	20.4	20.6	20.8	21.0	21.5		
6H 20.4 20.6 20.8 21.0 21.5 20.4 20.6 20.8 21.0 21.5 8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 Variation of the observer position for the luminaire distance S S = 1.0H +4.2 / -7.2 +4.2 / -7.2 +4.2 / -7.2 S = 1.5H +6.9 / -112.8 +6.9 / -112.8 +6.9 / -110.8 Standard table BK00 BK00 Correction summand 2.3	12H		20.3	20.5	20.8	21.0	21.4	20.3	20.5	20.8	21.0	21.4		
8H 20.3 20.5 20.8 21.0 21.4 20.3 20.5 20.8 21.0 21.4 Variation of the observer position for the luminaire distance S S = 1.0H +4.2 / -7.2 +4.2 / -7.2 S = 1.5H +6.9 / -112.8 +6.9 / -112.8 S = 2.0H +8.8 / -110.8 BK00 BK00 Correction summand 2.3	12H	4H	20.5	20.7	20.9	21.1	21.6	20.5	20.7	20.9	21.1	21.6		
Variation of the observer position for the luminaire distance S S = 1.0H +4.2 / -7.2 +4.2 / -7.2 S = 1.5H +6.9 / -112.8 +6.9 / -112.8 S = 2.0H +8.8 / -110.8 +8.8 / -110.8 Standard table BK00 BK00 Correction summand 2.3 2.3		6H	20.4	20.6	20.8	21.0	21.5	20.4	20.6	20.8	21.0	21.5		
S = 1.0H +4.2 / -7.2 +4.2 / -7.2 S = 1.5H +6.9 / -112.8 +6.9 / -112.8 S = 2.0H +8.8 / -110.8 +8.8 / -110.8 Standard table BK00 BK00 Correction summand 2.3 2.3		8H	20.3	20.5	20.8	21.0	21.4	20.3	20.5	20.8	21.0	21.4		
S = 1.5H +6.9 / -112.8 +6.9 / -112.8 S = 2.0H +8.8 / -110.8 +8.8 / -110.8 Standard table BK00 BK00 Correction summand 2.3 2.3	Variation of	of the obse	rver pos	ition for	the lumir	naire dist	aire distance S							
S = 2.0H +8.8 / -110.8 +8.8 / -110.8 Standard table BK00 BK00 Correction summand 2.3 2.3	S = 1	S = 1.0H +4.2 / -7.2							+4.2 / -7.2					
Standard table BK00 BK00 Correction summand 2.3 2.3	S = 1	S = 1.5H +6.9 / -112.8							+6.9 / -112.8					
Correction 2.3 2.3	S = 2	S = 2.0H +8.8 / -110.8							+8.8 / -110.8					
summand 2.3 2.3	Standar	d table			BK00			BK00						
Corrected glare indices referring to 70.4lm total luminous flux					2.3			2.3						
	Corrected glare indices referring to 70.4lm total luminous flux													