## MIKE STOANE LIGHTING | EQUIPMENT DESIGN + MANUFACTURE

Fitting name:

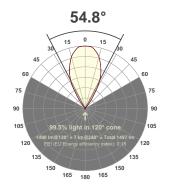
MSL\_FXDCPX\_19mm Xicato XTM\_98CRI\_3000K\_2140Im\_Wide Flood 2

Date:

02/08/2018

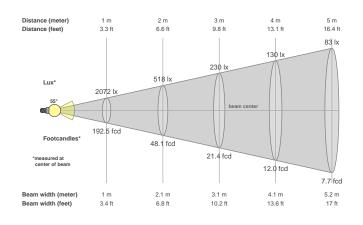
**Delivered Output: 1490 Lumen** 

LOR: 70% \*





#### Beam details



#### Beam angles

Beam angle 50%	Field angle 10%	Cutoff angle 2,5%				
54.8°	75.2°	84.1°				

#### Beam intensities

Peak intensity	Int. ratio in 120° cone	Int. ratio in 90° cone				
2072 cd	99.5%	99.2%				

### Beam intensities from 1-20m

Douil	1 1111011	Sitios i		20111															
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
2072lx	518lx	230lx	130lx	83lx	58lx	42lx	32lx	26lx	21lx	17lx	14lx	12lx	11lx	9lx	8lx	7lx	6lx	6lx	5lx
192.5fc	48.1fcd	21.4fcd	12fcd	7.7fcd	5.3fcd	3.9fcd	3fcd	2.4fcd	1.9fcd	1.6fcd	1.3fcd	1.1fcd	1fcd	0.9fcd	0.8fcd	0.7fcd	0.6fcd	0.5fcd	0.5fcd
d																			

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.

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.

<sup>\*</sup> These files are absolute measurements, not relative, as such the LOR is not generated when testing a fitting. To get an idea of LOR please 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. Eventually we will have manually calculated these numbers and entered them into all the files.

# **Glare Evaluation According to UGR**

P Ceiling   F														
Prilog	p Ceiling		70	70	50	50	30	70	70	50	50	30		
Room size	p Walls		50	30	50	30	30	50	30	50	30	30		
X Y	p Floor		20	20	20	20	20	20	20	20	20	20		
2H	Room	size	View	ing direc	ction at ri	ight angl	es to	Viewing direction parallel to lamp axis						
Standard table   Stan	Х	Υ	lamp axis											
Heat   18.9   19.4   19.2   19.7   19.9   18.9   19.4   19.2   19.7   19.9	2H	2H	19.1	19.7	19.3	19.9	20.1	19.1	19.7	19.3	19.9	20.1		
6H       18.8       19.3       19.1       19.6       19.9       18.8       19.3       19.1       19.6       19.9         8H       18.8       19.2       19.1       19.5       19.8       18.8       19.2       19.1       19.5       19.8         12H       18.7       19.2       19.1       19.5       19.8       18.7       19.2       19.1       19.5       19.8         4H       2H       18.9       19.4       19.2       19.7       19.9       18.9       19.4       19.2       19.7       19.9         3H       18.7       19.2       19.1       19.5       19.8       18.7       19.2       19.1       19.5       19.8         4H       18.7       19.0       19.0       19.4       19.7       18.7       19.0       19.0       19.4       19.7         6H       18.6       18.9       19.0       19.3       19.6       18.6       18.9       19.0       19.3       19.6         8H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         8H       18.4       18.5       18.8       18.9       19		3H	18.9	19.5	19.2	19.7	20.0	18.9	19.5	19.2	19.7	20.0		
8H       18.8       19.2       19.1       19.5       19.8       18.8       19.2       19.1       19.5       19.8         4H       2H       18.7       19.2       19.1       19.5       19.8       18.7       19.2       19.1       19.5       19.8         4H       2H       18.9       19.4       19.2       19.7       19.9       18.9       19.4       19.2       19.7       19.9         3H       18.7       19.2       19.1       19.5       19.8       18.7       19.2       19.1       19.5       19.8         4H       18.7       19.2       19.1       19.5       19.8       18.7       19.2       19.1       19.5       19.8         4H       18.7       19.0       19.0       19.4       19.7       18.7       19.0       19.0       19.4       19.7         6H       18.6       18.9       19.0       19.3       19.6       18.6       18.9       19.0       19.3       19.6         8H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.1       19.5       18		4H	18.9	19.4	19.2	19.7	19.9	18.9	19.4	19.2	19.7	19.9		
12H		6H	18.8	19.3	19.1	19.6	19.9	18.8	19.3	19.1	19.6	19.9		
4H       2H       18.9       19.4       19.2       19.7       19.9       18.9       19.4       19.2       19.7       19.9         3H       18.7       19.2       19.1       19.5       19.8       18.7       19.2       19.1       19.5       19.8         4H       18.7       19.0       19.0       19.4       19.7       18.7       19.0       19.0       19.4       19.7         6H       18.6       18.9       19.0       19.3       19.6       18.6       18.9       19.0       19.3       19.6         8H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         8H       18.5       18.8       18.9       19.1       19.6       18.5       18.8       18.9       19.2       19.6         8H       18.4       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         8H       18.4       18.6       18.9       19.1       19.5       18.4       18.7       18.9       19.1       19.5         8H       18.4       18.6       18.9       19.		8H	18.8	19.2	19.1	19.5	19.8	18.8	19.2	19.1	19.5	19.8		
3H		12H	18.7	19.2	19.1	19.5	19.8	18.7	19.2	19.1	19.5	19.8		
4H       18.7       19.0       19.0       19.4       19.7       18.7       19.0       19.0       19.4       19.7         6H       18.6       18.9       19.0       19.3       19.6       18.6       18.9       19.0       19.3       19.6         8H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         12H       18.5       18.7       18.9       19.1       19.6       18.5       18.8       18.9       19.2       19.6         8H       4H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.1       19.6         8H       4H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         8H       18.4       18.7       18.9       19.1       19.5       18.4       18.7       18.9       19.1       19.5         12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       18.3       18.5       18.8       18	4H	2H	18.9	19.4	19.2	19.7	19.9	18.9	19.4	19.2	19.7	19.9		
6H       18.6       18.9       19.0       19.3       19.6       18.6       18.9       19.0       19.3       19.6         8H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         12H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         8H       4H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         8H       18.4       18.7       18.9       19.1       19.5       18.4       18.7       18.9       19.1       19.5         8H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19		3H	18.7	19.2	19.1	19.5	19.8	18.7	19.2	19.1	19.5	19.8		
8H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         8H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         8H       4H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         6H       18.4       18.7       18.9       19.1       19.5       18.4       18.7       18.9       19.1       19.5         8H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8<		4H	18.7	19.0	19.0	19.4	19.7	18.7	19.0	19.0	19.4	19.7		
12H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         8H       4H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         6H       18.4       18.7       18.9       19.1       19.5       18.4       18.7       18.9       19.1       19.5         8H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5		6H	18.6	18.9	19.0	19.3	19.6	18.6	18.9	19.0	19.3	19.6		
8H       4H       18.5       18.8       18.9       19.2       19.6       18.5       18.8       18.9       19.2       19.6         6H       18.4       18.7       18.9       19.1       19.5       18.4       18.9       19.1       19.5         8H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.0       19.5       18.4       18.6       18.9       19.0		8H	18.5	18.8	18.9	19.2	19.6	18.5	18.8	18.9	19.2	19.6		
6H 18.4 18.7 18.9 19.1 19.5 18.4 18.7 18.9 19.1 19.5 8H 18.4 18.6 18.9 19.0 19.5 12H 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.0 19.5 8H 18.3 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 18.3 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.8 18.9 19.4 19.5 18.5 18.5 18.8 18.9 19.4 19.5 18.5 18.5 18.5 18.8 18.9 19.4 19.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18		12H	18.5	18.7	18.9	19.1	19.6	18.5	18.7	18.9	19.1	19.6		
8H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         Variation of the observer position for the luminaire distance S         S = 1.0H       +6.2 / -22.6       +6.2 / -22.6       +9.0 / -30.7         S = 1.5H       +9.0 / -30.7       +9.0 / -30.7         S = 2.0H       +11.0 / -98.2       BK00         BK00         BK00	8H	4H	18.5	18.8	18.9	19.2	19.6	18.5	18.8	18.9	19.2	19.6		
12H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.0       19.5         Warriant of the observer position for the luminaire distance S         S = 1.0H       +6.2 / -22.6       +6.2 / -22.6       +9.0 / -30.7       +9.0 / -30.7       +9.0 / -30.7       +11.0 / -98.2       +11.0 / -98.2       Standard table       BK00       BK00       BK00       0.4		6H	18.4	18.7	18.9	19.1	19.5	18.4	18.7	18.9	19.1	19.5		
12H       4H       18.5       18.7       18.9       19.1       19.6       18.5       18.7       18.9       19.1       19.6         6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         Variation of the observer position for the luminaire distance S         S = 1.0H       +6.2 / -22.6       +6.2 / -22.6       +6.2 / -22.6       +9.0 / -30.7       +9.0 / -30.7       +9.0 / -30.7       Second time in the second summand summand in the second summand summand summand s		8H	18.4	18.6	18.9	19.0	19.5	18.4	18.6	18.9	19.0	19.5		
6H       18.4       18.6       18.9       19.0       19.5       18.4       18.6       18.9       19.0       19.5         8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         Variation of the observer position for the luminaire distance S         S = 1.0H       +6.2       / -22.6       +6.2       / -22.6       +9.0       / -30.7       +9.0       / -30.7       +9.0       / -30.7       +9.0       / -98.2       +11.0       / -98.2       Standard table       BK00       BK00       BK00       -98.2		12H	18.3	18.5	18.8	18.9	19.4	18.3	18.5	18.8	18.9	19.4		
8H       18.3       18.5       18.8       18.9       19.4       18.3       18.5       18.8       18.9       19.4         Variation of the observer position for the luminaire distance S         S = 1.0H       +6.2 / -22.6       +6.2 / -22.6       +9.0 / -30.7       +9.0 / -30.7       +9.0 / -30.7       +9.0 / -98.2       +11.0 / -98.2       BK00       BK00       BK00       BK00       BK00       BK00       BK00       O.4	12H	4H	18.5	18.7	18.9	19.1	19.6	18.5	18.7	18.9	19.1	19.6		
Variation of the observer position for the luminaire distance S         S = 1.0H       +6.2 / -22.6       +6.2 / -22.6         S = 1.5H       +9.0 / -30.7       +9.0 / -30.7         S = 2.0H       +11.0 / -98.2       +11.0 / -98.2         Standard table       BK00       BK00         Correction summand       0.4       0.4		6H	18.4	18.6	18.9	19.0	19.5	18.4	18.6	18.9	19.0	19.5		
S = 1.0H       +6.2 / -22.6       +6.2 / -22.6         S = 1.5H       +9.0 / -30.7       +9.0 / -30.7         S = 2.0H       +11.0 / -98.2       +11.0 / -98.2         Standard table       BK00       BK00         Correction summand       0.4       0.4		8H	18.3	18.5	18.8	18.9	19.4	18.3	18.5	18.8	18.9	19.4		
S = 1.5H       +9.0 / -30.7       +9.0 / -30.7         S = 2.0H       +11.0 / -98.2       +11.0 / -98.2         Standard table       BK00       BK00         Correction summand       0.4       0.4	Variation of	of the obse	rver pos	sition for	the lumir	naire dis	tance S							
S = 2.0H       +11.0 / -98.2       +11.0 / -98.2         Standard table       BK00       BK00         Correction summand       0.4       0.4	S = 1	.0H		+6	.2 / -2	2.6		+6.2 / -22.6						
Standard table BK00 BK00  Correction summand 0.4 0.4	S = 1	.5H		+9	.0 / -3	0.7		+9.0 / -30.7						
Correction 0.4 0.4	S = 2	2.0H		+11	.0 / -9	98.2		+11.0 / -98.2						
summand 0.4 0.4	Standar	d table			BK00			BK00						
Corrected glare indices referring to 1490lm total luminous flux					0.4			0.4						
	Corrected	Corrected glare indices referring to 1490lm total luminous flux												