

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_5 ~ 4XT-13LXXK-MDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_5_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Medium Beam
[LUMCAT] 4XT-13L-xxK-MD-EX-MW-SO
[OTHER] Matte White finish, no lens
[OTHER] 28.3 Degree Beam Angle
[LAMP] N/A
[LAMPCAT] N/A, 19mm LES, Min. 83CRI
[OTHER] XT (Xicato) lumen output is same for all available CCT's at 19mm, 83CRI
[OTHER] Luminaire Watts is approximate, per Head/Module, no thermal sensor
[OTHER] Luminaire Watts for Surface/Suspended MULTIPLES = Module Watts x Qty
[OTHER] Luminaire Watts for Recessed MULTIPLES = Module Watts x Qty + 2W Thermal sensor +
[OTHER] Specific recessed units require active cooling approx. 1W per module, see Spec Sheets
[OTHER] Photometric Data for Head/Module applicable to the following:
[OTHER] SPECTRAC: Track Heads: STT4XT, STH4XT, STV4XT series
[OTHER] MULTIPLES: 8" W Surface/Suspended: RCC816, RCC824, RCC848, RCC896
[OTHER] MULTIPLES: 6" W Recessed: RC66**4, RC612**4, RC618**4, RC624**4
[OTHER] ** indicates Trim variants: FT, RT, NF
[OTHER] MULTIPLES: 12" x 12" Recessed: RC1212FT4
[OTHER] MULTIPLES: 2' x 2' Recessed Grid Ceiling: GC24241X, GC24242X, GC24244X
[OTHER] This report prepared by Spectrum Lighting

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1064
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.52
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.33 ft (Diameter)
Luminous Width (90-270)	0.33 ft (Diameter)
Luminous Height	0.00 ft

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6314	6224	6187
55	4533	4293	4639
65	4603	4441	4535
75	3592	4121	4067
85	2934	3302	3916

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	2936.800	2936.800	2936.800	2936.800	2936.800
5	2652.336	2690.418	2657.856	2680.028	2665.995
10	2016.582	2078.289	2045.752	2086.885	2045.789
15	1353.089	1404.913	1377.880	1418.084	1371.847
20	861.302	891.979	869.172	895.900	868.176
25	534.732	549.371	528.796	553.851	533.099
30	300.771	314.586	297.936	309.026	297.723
35	143.698	156.231	147.630	147.143	139.728
40	64.494	69.106	67.544	67.332	62.458
45	36.159	35.217	35.640	36.550	35.430
50	25.547	24.476	24.334	26.849	25.707
55	21.057	20.704	19.940	21.925	21.549
60	18.456	18.884	17.519	18.558	18.471
65	15.754	15.691	15.200	14.533	15.523
70	12.470	11.914	11.194	11.628	11.856
75	7.530	8.529	8.638	9.331	8.524
80	4.678	4.857	4.944	5.354	5.276
85	2.071	2.075	2.331	2.070	2.764
90	0.874	0.232	0.721	0.430	1.055

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	628.26	N.A.	59.00
0-30	884.54	N.A.	83.10
0-40	987.19	N.A.	92.70
0-60	1037.7	N.A.	97.50
0-80	1061.68	N.A.	99.70
0-90	1064.43	N.A.	100.00
10-90	828.08	N.A.	77.80
20-40	358.92	N.A.	33.70
20-50	390.28	N.A.	36.70
40-70	65.52	N.A.	6.20
60-80	23.98	N.A.	2.30
70-80	8.98	N.A.	0.80
80-90	2.74	N.A.	0.30
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	1064.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	236.34
10-20	391.92
20-30	256.28
30-40	102.64
40-50	31.36
50-60	19.15
60-70	15.01
70-80	8.98
80-90	2.74
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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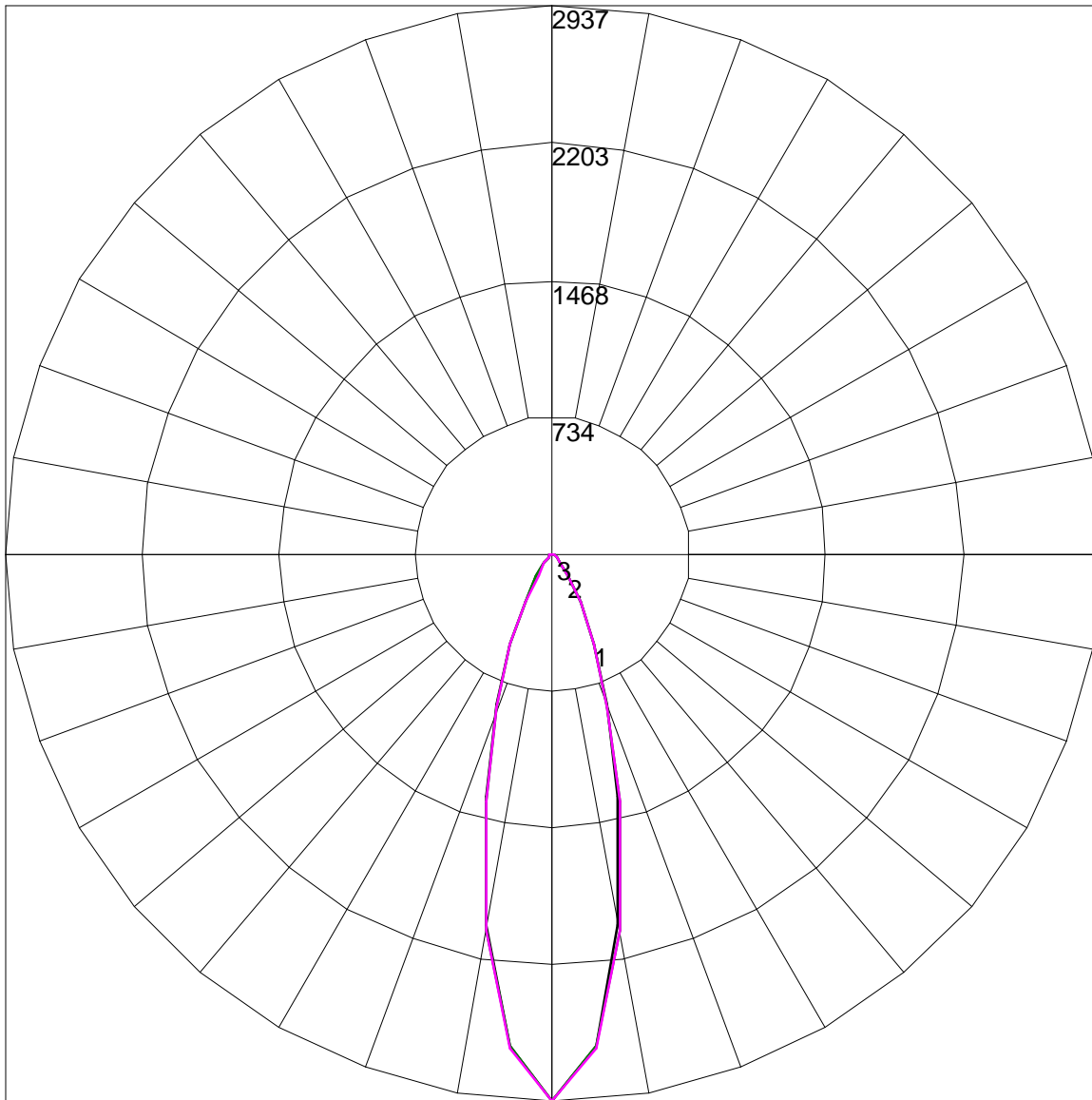
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	74	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	79	71	66	63	70	66	63	69	65	62	69	65	62	61

POLAR GRAPH



Maximum Candela = 2936.8 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)