

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00596 ~ 3XT-13LXXK-XNEX-MWNL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00596_M-13L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 7/26/2017
 [UPDATE] 8/2/2017
 [LUMCAT] 3XT-13L-xxK-XN-EX-MW-NL
 [LUMINAIRE] Nom. 3" Diam Head/Module
 [OTHER] Xtra Narrow Beam / No Lens
 [OTHER] 12.4 Degree Beam Angle
 [LAMP] N/A
 [LAMPCAT] N/A, 9mm LES, Min. 83CRI
 [OTHER] XT (Xicato) lumen output is same for all available CCT's at 9mm, 83CRI
 [OTHER] Luminaire Watts is approximate, per Head/Module, no thermal sensor or fan
 [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: STT3XT, STC3XT, SDT3XT series
 [OTHER] MULTIPLES: 6" W Surface/Suspended: RCC66, RCC612, RCC618, RCC624
 [OTHER] MULTIPLES: 8" W Recessed Slot: RC896, RC8120, RC8144, RC8168, RC8192
 [OTHER] MULTIPLES: 6" W Recessed: RC66**3, RC612**3, RC618**3, RC624**3
 [OTHER] ** indicates Trim variants: FT, RT, NF
 [OTHER] This report prepared by Spectrum Lighting, scaled from 20L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1032
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	56
Total Luminaire Watts	18.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.22
Spacing Criterion (Diagonal)	0.22
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.28 ft (Diameter)
Luminous Width (90-270)	0.28 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	230	178	195
55	343	262	205
65	271	290	488
75	695	270	452
85	1527	2202	2019

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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	12596.662	12596.662	12596.662	12596.662	12596.662
5	7629.882	7530.893	7688.531	7593.241	7738.204
10	1998.431	1852.768	1906.516	1826.337	1958.893
15	577.830	513.699	565.889	525.442	578.069
20	412.716	409.764	412.618	414.790	412.895
25	385.869	384.837	385.554	383.142	382.479
30	249.785	286.678	249.317	280.145	244.538
35	56.155	51.329	61.001	55.458	57.716
40	2.454	0.771	1.690	1.106	1.223
45	0.897	0.656	0.695	0.777	0.761
50	0.978	0.711	0.634	1.062	1.208
55	1.087	1.165	0.831	1.166	0.648
60	0.559	1.426	0.964	0.784	0.350
65	0.632	1.275	0.677	0.458	1.138
70	0.890	0.729	0.553	0.599	1.182
75	0.994	0.916	0.386	0.973	0.646
80	0.452	0.541	0.664	0.729	0.359
85	0.735	0.692	1.060	0.915	0.972
90	0.000	0.000	0.000	0.000	0.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	805.65	N.A.	78.00
0-30	971.52	N.A.	94.10
0-40	1028.54	N.A.	99.60
0-60	1030.1	N.A.	99.80
0-80	1031.67	N.A.	99.90
0-90	1032.31	N.A.	100.00
10-90	450.19	N.A.	43.60
20-40	222.89	N.A.	21.60
20-50	223.60	N.A.	21.70
40-70	2.38	N.A.	0.20
60-80	1.57	N.A.	0.20
70-80	0.76	N.A.	0.10
80-90	0.64	N.A.	0.10
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	1032.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	582.12
10-20	223.52
20-30	165.87
30-40	57.02
40-50	0.71
50-60	0.85
60-70	0.81
70-80	0.76
80-90	0.64
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

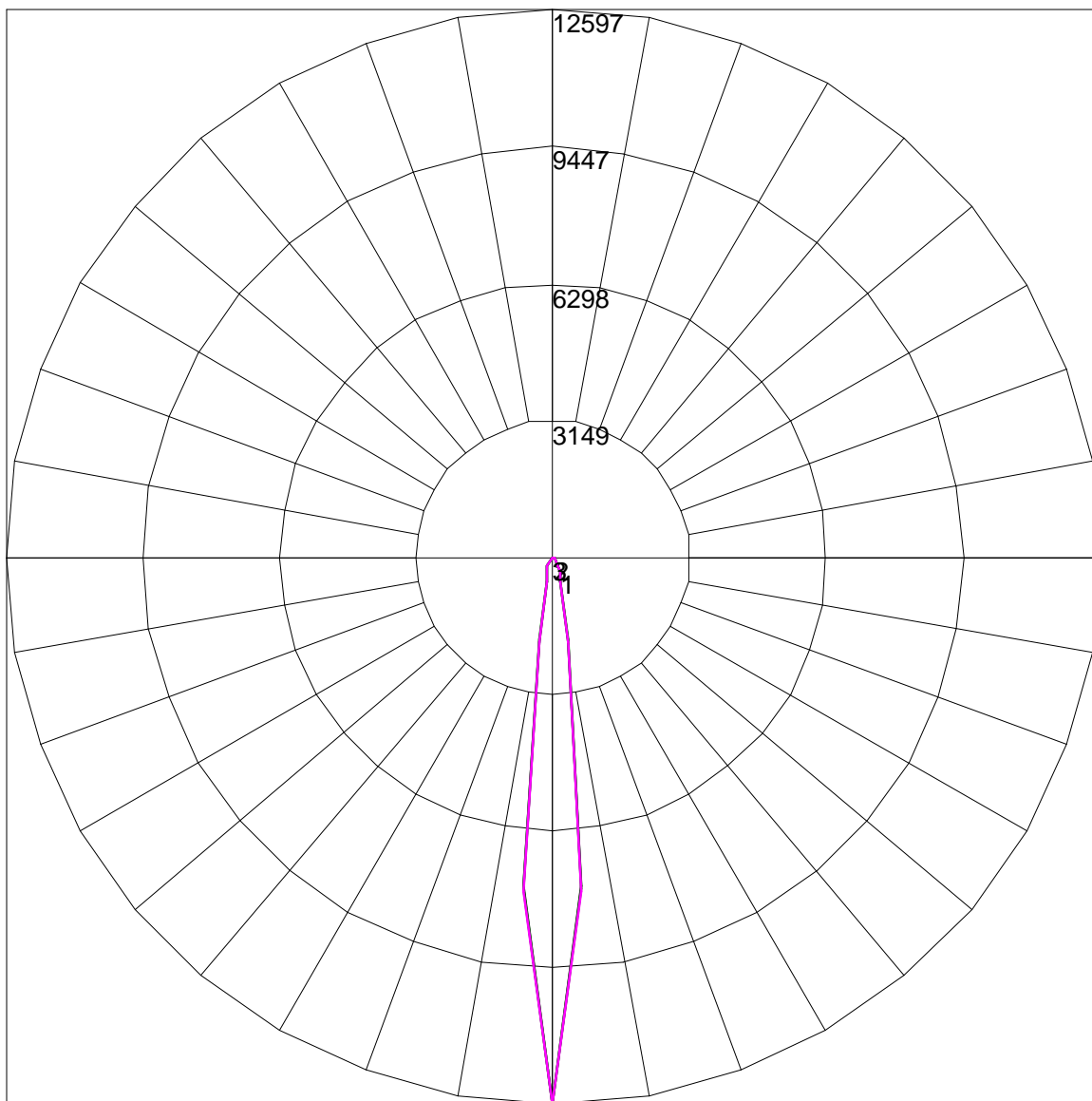
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	113	112	110	113	111	110	108	107	106	105	104	103	102	100	100	99	97
2	112	109	106	104	110	107	105	103	104	102	100	101	100	98	99	97	96	95
3	109	105	101	99	107	103	100	98	101	99	97	99	97	95	97	95	94	93
4	106	101	98	95	105	100	97	94	98	96	93	97	94	92	95	93	91	90
5	103	98	95	92	102	97	94	91	96	93	91	94	92	90	93	91	89	88
6	101	96	92	89	100	95	91	89	94	91	88	92	90	88	91	89	87	86
7	99	93	89	87	98	93	89	87	91	88	86	91	88	86	90	87	85	85
8	97	91	87	85	96	90	87	85	90	86	84	89	86	84	88	86	84	83
9	95	89	85	83	94	89	85	83	88	85	83	87	84	82	86	84	82	81
10	93	87	84	81	92	87	83	81	86	83	81	85	83	81	85	82	81	80

POLAR GRAPH



Maximum Candela = 12596.662 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)