

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00596\_1 ~ 3XT-13LXXK-XNEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00596\_1\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 7/26/2017  
[UPDATE] 8/24/2017  
[LUMCAT] 3XT-13L-xxK-XN-EX-MW-GL  
[LUMINAIRE] Nom. 3" Diam Head/Module  
[OTHER] Xtra Narrow Beam / Clear Glass Lens  
[OTHER] 12.5 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	954
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
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	824	906	620
55	571	446	232
65	209	396	436
75	607	497	822
85	1371	1930	2136

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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>
<b>0</b>	11140.090	11140.090	11140.090	11140.090	11140.090
<b>5</b>	6818.357	6822.777	6857.324	6887.952	6947.161
<b>10</b>	1779.824	1755.889	1672.230	1754.512	1779.679
<b>15</b>	539.821	539.423	524.651	548.255	553.164
<b>20</b>	383.535	384.496	385.306	388.261	390.146
<b>25</b>	348.835	349.738	349.506	351.344	354.986
<b>30</b>	241.722	242.081	250.898	243.176	246.735
<b>35</b>	66.106	68.396	75.091	71.745	72.199
<b>40</b>	6.934	4.897	4.329	5.084	5.015
<b>45</b>	3.219	2.937	3.537	2.879	2.423
<b>50</b>	2.720	1.708	1.886	2.152	1.483
<b>55</b>	1.808	1.882	1.413	1.410	0.734
<b>60</b>	1.025	1.140	1.223	2.096	1.648
<b>65</b>	0.487	1.477	0.925	1.085	1.018
<b>70</b>	0.637	1.069	1.432	1.321	1.115
<b>75</b>	0.868	0.843	0.710	1.825	1.175
<b>80</b>	1.033	0.729	0.879	0.947	0.819
<b>85</b>	0.660	1.092	0.929	0.822	1.028
<b>90</b>	0.000	0.000	0.418	0.000	1.634

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	734.56	N.A.	77.00
0-30	887.23	N.A.	93.00
0-40	946.50	N.A.	99.30
0-60	950.45	N.A.	99.70
0-80	952.74	N.A.	99.90
0-90	953.57	N.A.	100.00
10-90	430.58	N.A.	45.20
20-40	211.94	N.A.	22.20
20-50	214.45	N.A.	22.50
40-70	5.12	N.A.	0.50
60-80	2.30	N.A.	0.20
70-80	1.12	N.A.	0.10
80-90	0.82	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	953.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	522.99
10-20	211.58
20-30	152.67
30-40	59.27
40-50	2.51
50-60	1.43
60-70	1.18
70-80	1.12
80-90	0.82
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

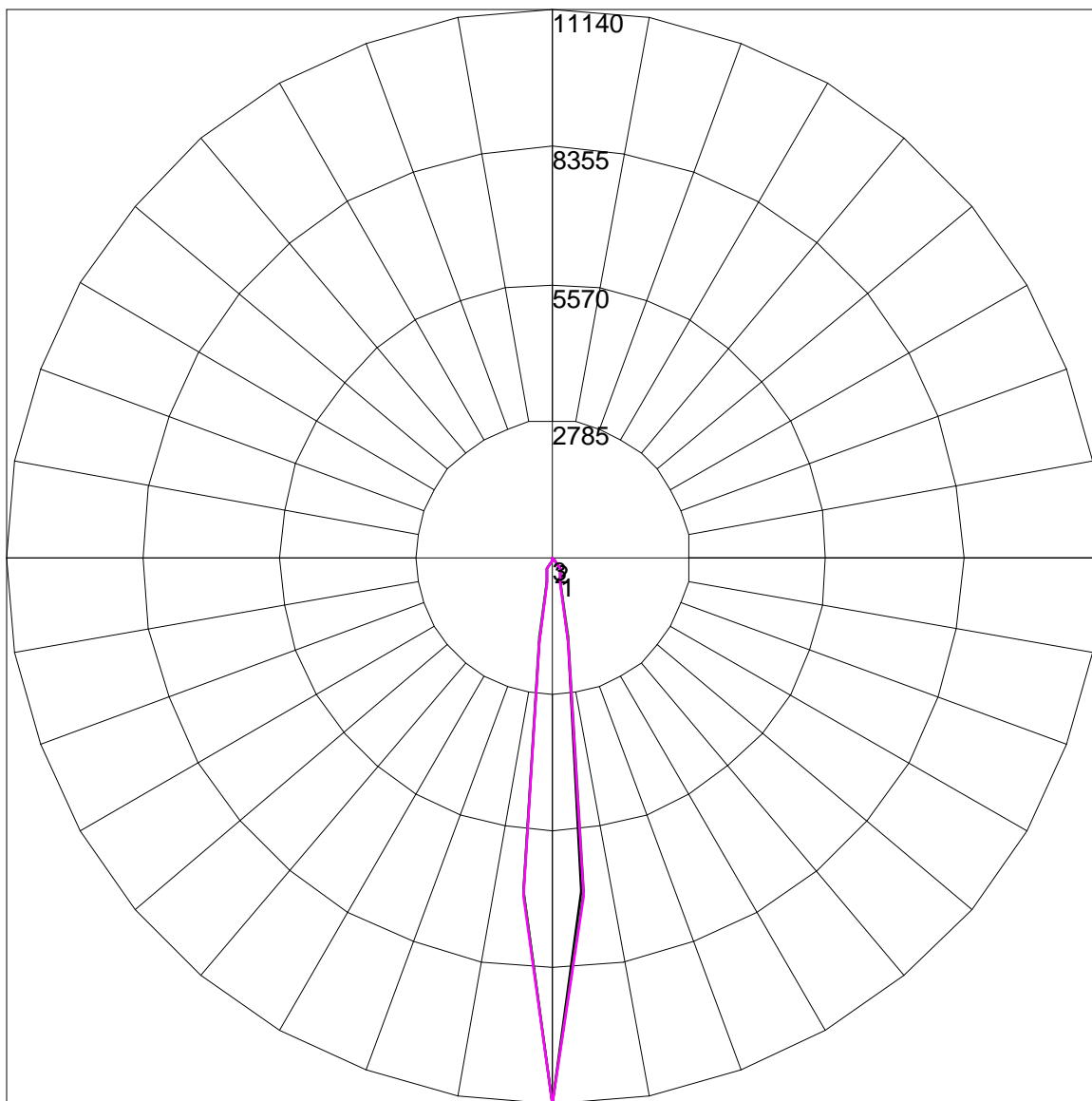
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94
3	109	104	101	98	107	103	100	98	101	98	96	98	96	95	96	95	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	94	92	94	92	91	90
5	103	98	94	91	102	97	93	91	95	92	90	94	91	89	92	90	89	88
6	100	95	91	88	99	94	91	88	93	90	88	92	89	87	91	88	86	85
7	98	92	89	86	97	92	88	86	91	88	85	90	87	85	89	86	85	84
8	96	90	86	84	95	90	86	84	89	86	83	88	85	83	87	85	83	82
9	94	88	84	82	93	88	84	82	87	84	82	86	83	81	86	83	81	80
10	92	86	83	80	91	86	82	80	85	82	80	85	82	80	84	81	80	79

POLAR GRAPH



Maximum Candela = 11140.09 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)