

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

IESNA:LM-63-2002  
[TEST] SP-00551\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/6/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam  
[LUMCAT] 4XT-13L-xxK-ND-EX-MW-NL  
[OTHER] Matte White finish, no lens  
[OTHER] 17.7 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, scaled from 30L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1191
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.34
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	1318	1270	1483
55	1435	1352	1293
65	3128	2820	2985
75	2288	2263	2560
85	3681	4498	4407

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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>	6625.606	6625.606	6625.606	6625.606	6625.606
<b>5</b>	5184.435	5415.423	5471.678	5658.617	5535.818
<b>10</b>	2762.417	2996.358	2929.096	3193.827	3080.541
<b>15</b>	1224.980	1333.461	1270.092	1393.487	1357.684
<b>20</b>	657.469	691.583	661.553	703.837	694.784
<b>25</b>	453.841	470.151	453.781	470.981	468.374
<b>30</b>	268.371	288.206	280.858	296.276	276.857
<b>35</b>	84.434	98.334	86.936	101.463	87.694
<b>40</b>	12.322	14.631	9.958	13.711	14.438
<b>45</b>	7.549	7.424	7.274	8.743	8.490
<b>50</b>	6.130	6.711	5.852	6.846	6.226
<b>55</b>	6.666	6.876	6.279	5.991	6.008
<b>60</b>	8.569	9.090	8.139	7.895	8.062
<b>65</b>	10.707	9.643	9.653	9.631	10.218
<b>70</b>	7.684	8.426	7.671	8.686	7.956
<b>75</b>	4.795	5.797	4.743	6.007	5.367
<b>80</b>	5.861	6.012	4.839	6.597	5.085
<b>85</b>	2.598	3.039	3.175	2.464	3.111
<b>90</b>	0.880	0.259	0.570	0.103	0.925

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	870.53	N.A.	73.10
0-30	1085.58	N.A.	91.20
0-40	1158.9	N.A.	97.30
0-60	1171.81	N.A.	98.40
0-80	1187.32	N.A.	99.70
0-90	1190.58	N.A.	100.00
10-90	742.31	N.A.	62.30
20-40	288.37	N.A.	24.20
20-50	295.10	N.A.	24.80
40-70	21.89	N.A.	1.80
60-80	15.51	N.A.	1.30
70-80	6.52	N.A.	0.50
80-90	3.26	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	1190.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	448.27
10-20	422.26
20-30	215.05
30-40	73.32
40-50	6.73
50-60	6.18
60-70	8.98
70-80	6.52
80-90	3.26
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

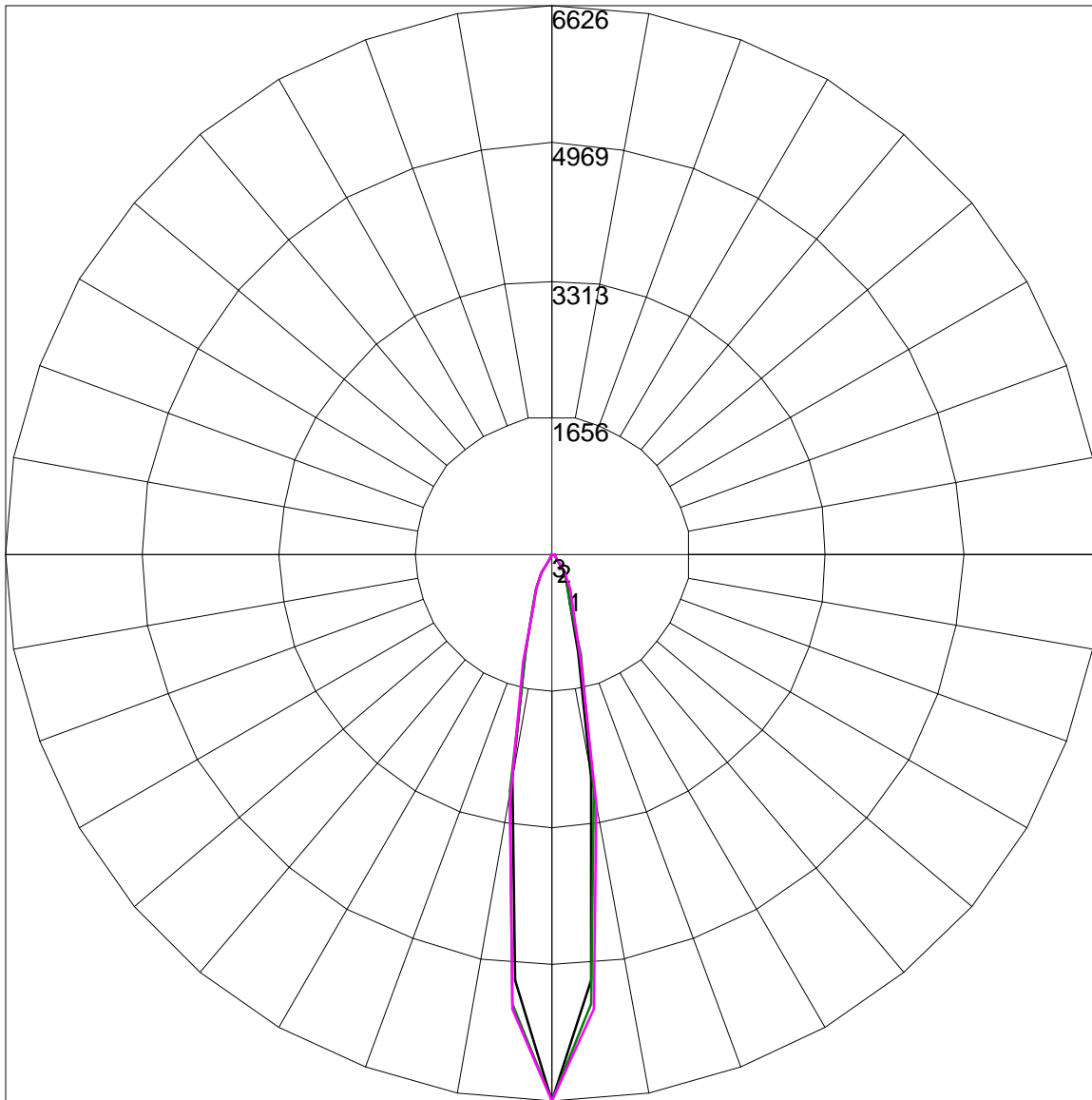
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	112	110	109	112	110	108	107	106	105	104	103	101	100	99	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	85	90	87	85	89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	74	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

POLAR GRAPH



Maximum Candela = 6625.606 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)