

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_1 ~ 4XT-13LXXK-NDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_1\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/4/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam  
[LUMCAT] 4XT-13L-xxK-ND-EX-MW-GL  
[OTHER] Matte White finish, clear glass lens  
[OTHER] 16 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	1175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
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	1998	2161	2063
55	1752	2145	2271
65	2396	2491	2649
75	1914	2300	2250
85	2750	3023	2828

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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>	6658.414	6658.414	6658.414	6658.414	6658.414
<b>5</b>	5283.440	5391.816	5221.001	5395.340	5173.683
<b>10</b>	2833.599	2925.599	2776.027	2933.185	2766.703
<b>15</b>	1267.027	1330.977	1260.091	1316.365	1250.811
<b>20</b>	680.340	710.508	686.218	703.635	679.409
<b>25</b>	463.787	487.892	473.620	477.724	466.244
<b>30</b>	274.504	288.725	274.040	294.777	274.946
<b>35</b>	90.775	96.923	90.657	105.802	90.234
<b>40</b>	18.265	24.149	21.488	20.825	18.198
<b>45</b>	11.439	14.305	12.374	12.742	11.814
<b>50</b>	8.894	9.760	9.478	10.331	10.433
<b>55</b>	8.139	9.019	9.964	9.508	10.551
<b>60</b>	8.893	8.940	10.434	10.000	10.592
<b>65</b>	8.201	9.096	8.525	8.465	9.068
<b>70</b>	5.433	6.516	5.861	5.484	6.018
<b>75</b>	4.011	5.226	4.820	4.167	4.716
<b>80</b>	4.282	4.538	4.053	4.751	4.957
<b>85</b>	1.941	2.650	2.134	1.805	1.996
<b>90</b>	0.589	0.255	0.514	0.295	0.446

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	845.18	N.A.	71.90
0-30	1064.08	N.A.	90.60
0-40	1139.44	N.A.	97.00
0-60	1158.92	N.A.	98.60
0-80	1172.3	N.A.	99.80
0-90	1174.8	N.A.	100.00
10-90	739.53	N.A.	62.90
20-40	294.26	N.A.	25.00
20-50	305.10	N.A.	26.00
40-70	27.66	N.A.	2.40
60-80	13.38	N.A.	1.10
70-80	5.20	N.A.	0.40
80-90	2.50	N.A.	0.20
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	1174.8	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	435.26
10-20	409.92
20-30	218.90
30-40	75.36
40-50	10.84
50-60	8.64
60-70	8.18
70-80	5.20
80-90	2.50
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

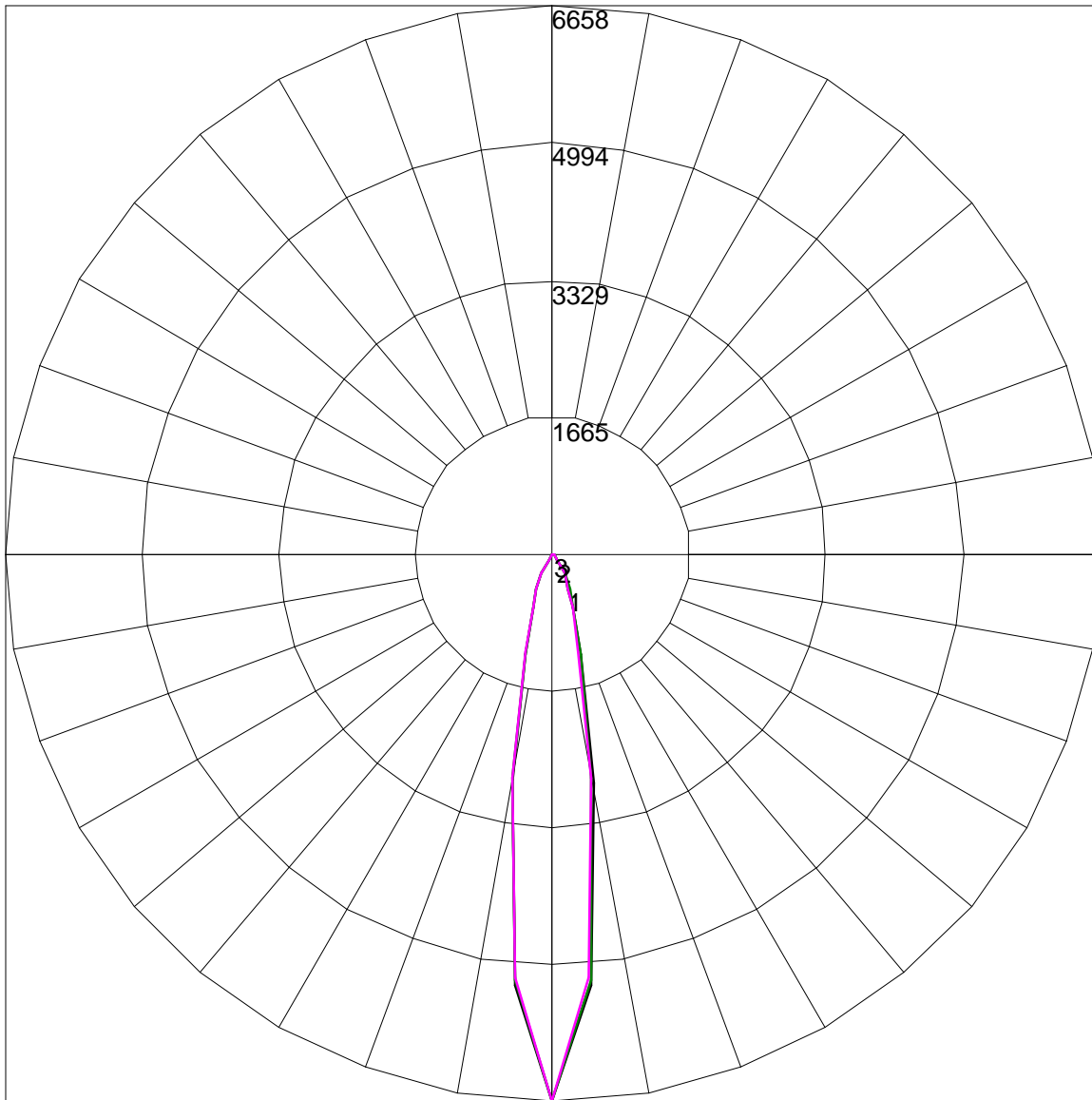
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	108	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	84	81	79	83	81	78	77
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
9	89	82	78	75	88	81	77	75	81	77	74	80	77	74	79	76	74	73
10	86	79	75	73	86	79	75	72	78	75	72	78	74	72	77	74	72	71

POLAR GRAPH



Maximum Candela = 6658.414 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)