

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_4 ~ 4XT-13LXXK-MDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_4\_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-GL  
[OTHER] Matte White finish, clear glass lens  
[OTHER] 26 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	1090
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.48
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	3403	3350	2966
55	4258	3995	3831
65	3821	3511	3634
75	4525	3906	3450
85	5511	5299	4671

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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>	3466.400	3466.400	3466.400	3466.400	3466.400
<b>5</b>	3093.045	3125.066	3105.919	3159.396	3131.420
<b>10</b>	2240.509	2309.243	2281.405	2338.341	2305.682
<b>15</b>	1397.535	1460.598	1437.669	1480.889	1453.889
<b>20</b>	852.372	884.008	872.980	892.077	878.709
<b>25</b>	543.962	573.237	551.693	572.508	551.587
<b>30</b>	309.756	327.542	308.458	330.219	312.403
<b>35</b>	101.014	95.628	102.229	92.450	103.772
<b>40</b>	23.106	25.952	24.548	20.639	22.874
<b>45</b>	19.486	20.164	19.183	17.289	16.986
<b>50</b>	19.976	19.039	19.010	18.289	17.823
<b>55</b>	19.779	20.034	18.556	18.612	17.797
<b>60</b>	17.296	16.756	15.900	17.990	16.202
<b>65</b>	13.079	13.073	12.017	13.256	12.437
<b>70</b>	9.765	9.779	10.395	10.319	8.143
<b>75</b>	9.485	8.537	8.188	8.081	7.231
<b>80</b>	7.811	7.799	6.548	6.850	5.315
<b>85</b>	3.890	4.288	3.740	4.026	3.297
<b>90</b>	0.660	0.712	0.477	0.432	0.746

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	687.48	N.A.	63.10
0-30	949.95	N.A.	87.20
0-40	1031.74	N.A.	94.70
0-60	1063.65	N.A.	97.60
0-80	1085.4	N.A.	99.60
0-90	1089.58	N.A.	100.00
10-90	816.66	N.A.	75.00
20-40	344.25	N.A.	31.60
20-50	359.66	N.A.	33.00
40-70	44.85	N.A.	4.10
60-80	21.75	N.A.	2.00
70-80	8.82	N.A.	0.80
80-90	4.18	N.A.	0.40
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	1089.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	272.92
10-20	414.56
20-30	262.47
30-40	81.79
40-50	15.41
50-60	16.51
60-70	12.93
70-80	8.82
80-90	4.18
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

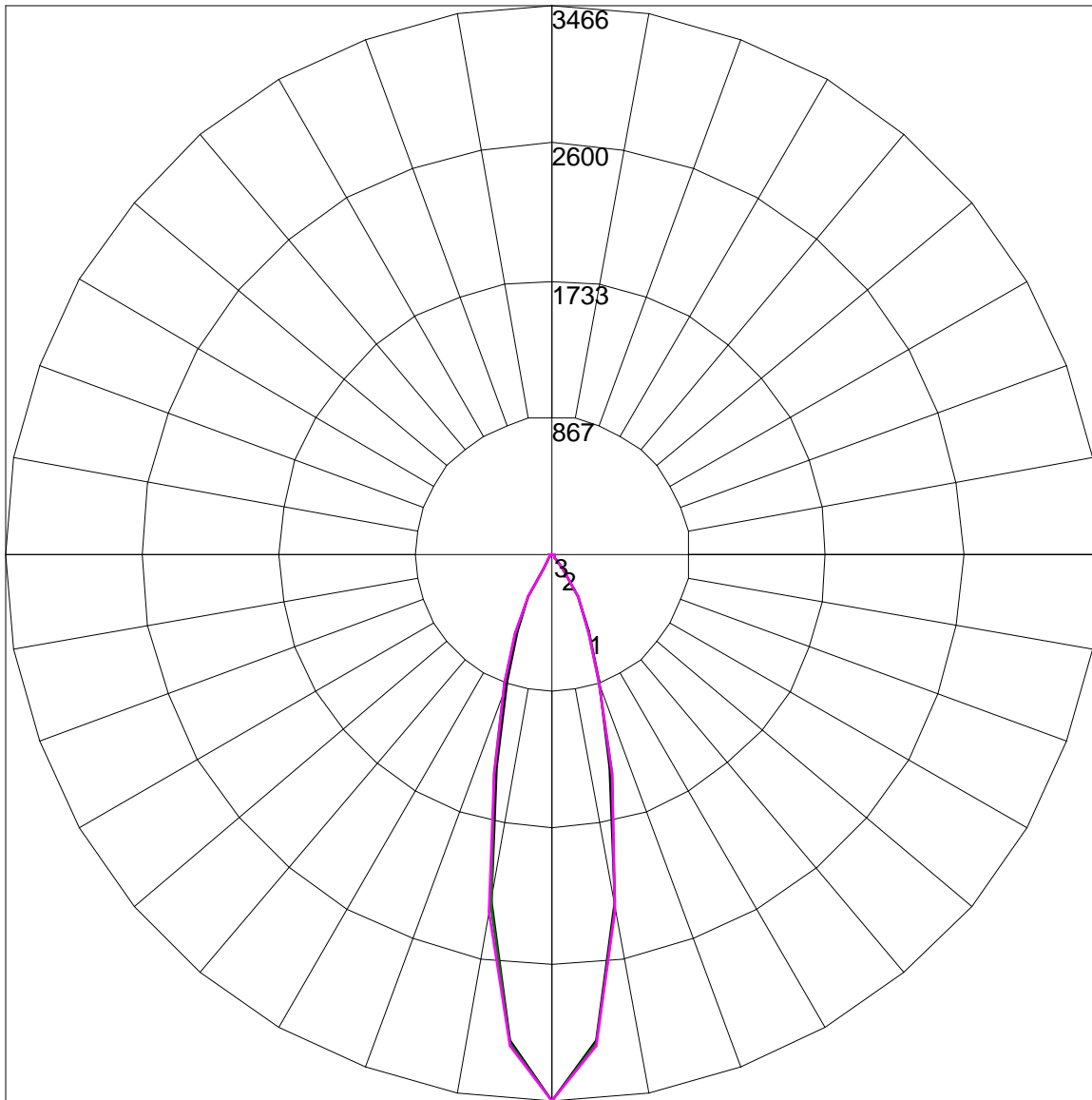
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85
4	101	94	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	82	96	89	85	81	87	84	80	86	82	80	84	82	79	78
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	81	78	76	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64

POLAR GRAPH



Maximum Candela = 3466.4 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)