

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_7 ~ 4XT-13LXXK-WDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_7\_M-13L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Diam Head/Module, Wide Beam  
[LUMCAT] 4XT-13L-xxK-WD-EX-MW-GL  
[OTHER] Matte White finish, clear glass lens  
[OTHER] 36.3 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	1093
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)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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	4521	4474	4172
55	4251	4271	4374
65	3315	3011	3041
75	4039	3407	3145
85	6210	5789	4005

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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>	2368.298	2368.298	2368.298	2368.298	2368.298
<b>5</b>	2251.151	2260.136	2256.155	2265.393	2254.343
<b>10</b>	1963.077	1982.588	1976.201	1992.699	1969.336
<b>15</b>	1496.230	1535.850	1504.843	1545.328	1511.215
<b>20</b>	1003.542	1041.113	1009.255	1048.456	1021.272
<b>25</b>	648.334	676.218	655.542	680.134	662.047
<b>30</b>	354.194	378.284	355.706	385.722	364.876
<b>35</b>	108.782	127.299	106.165	127.475	115.122
<b>40</b>	30.515	34.480	28.874	30.892	28.474
<b>45</b>	25.893	26.565	25.622	25.237	23.889
<b>50</b>	23.201	23.714	24.004	23.723	23.851
<b>55</b>	19.746	20.339	19.842	20.113	20.319
<b>60</b>	15.583	15.583	14.985	15.060	14.570
<b>65</b>	11.346	12.242	10.304	11.638	10.408
<b>70</b>	9.934	9.979	8.434	8.313	7.686
<b>75</b>	8.466	9.093	7.141	7.490	6.592
<b>80</b>	8.176	7.565	6.611	6.361	5.173
<b>85</b>	4.383	4.381	4.086	4.238	2.827
<b>90</b>	0.711	0.323	0.768	0.204	0.380

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	624.82	N.A.	57.20
0-30	933.74	N.A.	85.50
0-40	1030.49	N.A.	94.30
0-60	1068.6	N.A.	97.80
0-80	1088.4	N.A.	99.60
0-90	1092.6	N.A.	100.00
10-90	885.68	N.A.	81.10
20-40	405.66	N.A.	37.10
20-50	426.09	N.A.	39.00
40-70	49.64	N.A.	4.50
60-80	19.81	N.A.	1.80
70-80	8.28	N.A.	0.80
80-90	4.20	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	1092.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	206.92
10-20	417.90
20-30	308.91
30-40	96.75
40-50	20.43
50-60	17.68
60-70	11.53
70-80	8.28
80-90	4.20
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

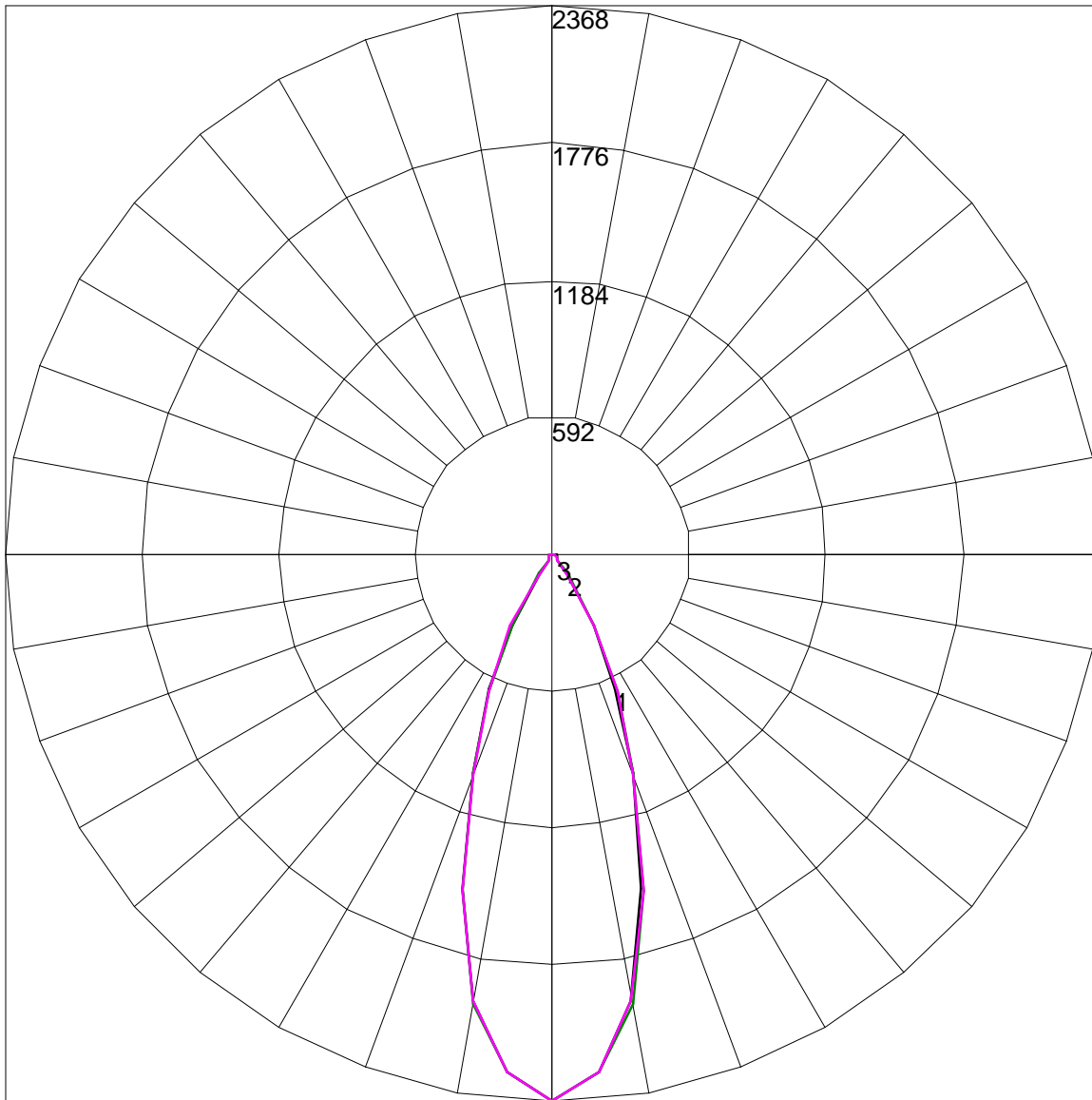
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	90	94	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	64	62	68	64	61	60

POLAR GRAPH



Maximum Candela = 2368.298 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)