

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00551\_11 ~ 4XT-13LXXK-XWEX-MWSO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_11\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/6/2017  
 [UPDATE] 8/21/2017  
 [LUMINAIRE] Nom. 4" Head/Module, Xtra Wide Beam  
 [LUMCAT] 4XT-13L-xxK-XW-EX-MW-SO  
 [OTHER] Matte White finish, Solite lens  
 [OTHER] 51.8 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	1084
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
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	10202	11660	12023
55	4967	5389	5395
65	3822	4183	4330
75	3257	3209	3453
85	2536	2631	2934

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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>	1389.010	1389.010	1389.010	1389.010	1389.010
<b>5</b>	1363.659	1363.617	1360.991	1363.818	1353.432
<b>10</b>	1295.431	1299.240	1293.138	1298.517	1287.119
<b>15</b>	1176.944	1186.986	1176.436	1189.237	1180.397
<b>20</b>	994.730	1010.708	999.866	1024.441	1013.882
<b>25</b>	744.874	761.570	757.050	781.848	778.020
<b>30</b>	472.459	484.020	487.152	506.461	505.192
<b>35</b>	243.225	260.829	268.474	274.935	273.829
<b>40</b>	113.466	129.459	132.118	134.017	135.070
<b>45</b>	58.425	66.701	66.772	67.359	68.849
<b>50</b>	33.893	38.227	38.001	37.430	38.580
<b>55</b>	23.072	25.348	25.035	25.187	25.062
<b>60</b>	17.172	18.884	18.878	18.413	18.980
<b>65</b>	13.081	14.493	14.318	14.419	14.821
<b>70</b>	9.741	10.641	10.084	10.575	10.992
<b>75</b>	6.827	7.923	6.727	7.003	7.238
<b>80</b>	3.717	4.565	3.950	4.469	3.851
<b>85</b>	1.790	1.787	1.857	1.909	2.071
<b>90</b>	0.727	0.547	0.566	0.503	0.719

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	455.67	N.A.	42.10
0-30	800.95	N.A.	73.90
0-40	978.48	N.A.	90.30
0-60	1059.33	N.A.	97.80
0-80	1081.21	N.A.	99.80
0-90	1083.53	N.A.	100.00
10-90	955.59	N.A.	88.20
20-40	522.81	N.A.	48.30
20-50	580.05	N.A.	53.50
40-70	95.10	N.A.	8.80
60-80	21.88	N.A.	2.00
70-80	7.64	N.A.	0.70
80-90	2.32	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	1083.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	127.94
10-20	327.72
20-30	345.28
30-40	177.53
40-50	57.24
50-60	23.61
60-70	14.25
70-80	7.64
80-90	2.32
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

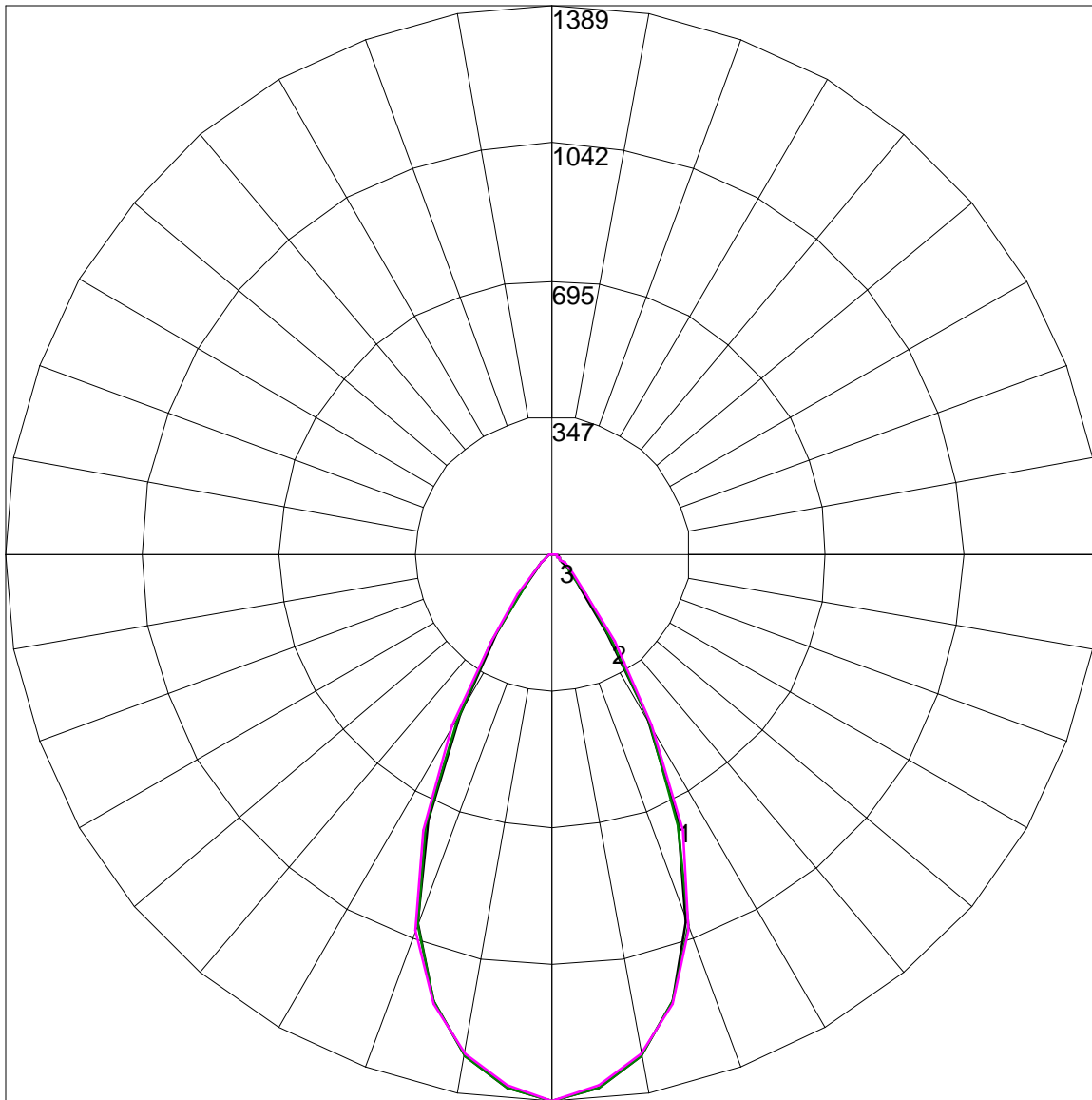
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	86
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

POLAR GRAPH



Maximum Candela = 1389.01 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)