

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00551\_9 ~ 4XT-13LXXK-XWEX-MWNL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_9\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 4/5/2017  
 [UPDATE] 8/21/2017  
 [LUMINAIRE] Nom. 4" Diam Head/Modulet, Xtra Wide Beam  
 [LUMCAT] 4XT-13L-xxK-XW-EX-MW-NL  
 [OTHER] Matte White finish, no lens  
 [OTHER] 56 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	1168
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)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.84
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	5831	6626	6942
55	2822	3158	3027
65	2540	2643	2599
75	3839	4010	4030
85	6069	6365	7034

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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>	1456.988	1456.988	1456.988	1456.988	1456.988
<b>5</b>	1427.432	1433.874	1439.896	1442.727	1444.517
<b>10</b>	1361.739	1371.225	1372.206	1378.853	1377.806
<b>15</b>	1270.649	1282.625	1277.867	1288.508	1280.674
<b>20</b>	1135.686	1153.081	1139.866	1154.911	1140.490
<b>25</b>	923.809	942.147	924.714	942.378	925.030
<b>30</b>	595.782	628.374	602.994	632.028	604.413
<b>35</b>	229.710	272.007	262.111	280.261	264.721
<b>40</b>	78.454	90.154	89.487	94.534	93.065
<b>45</b>	33.390	38.715	37.943	41.565	39.756
<b>50</b>	18.366	20.790	19.505	21.379	20.296
<b>55</b>	13.107	14.524	14.668	15.057	14.060
<b>60</b>	11.121	11.377	10.398	11.714	11.541
<b>65</b>	8.693	9.487	9.045	8.390	8.894
<b>70</b>	7.753	8.461	7.461	9.067	7.927
<b>75</b>	8.046	9.068	8.405	8.684	8.448
<b>80</b>	8.307	8.649	8.754	7.920	8.470
<b>85</b>	4.284	4.338	4.493	5.306	4.965
<b>90</b>	0.490	0.473	0.660	0.361	0.702

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	492.69	N.A.	42.20
0-30	906.90	N.A.	77.60
0-40	1095.96	N.A.	93.80
0-60	1145.18	N.A.	98.00
0-80	1163.36	N.A.	99.60
0-90	1168.36	N.A.	100.00
10-90	1033.18	N.A.	88.40
20-40	603.27	N.A.	51.60
20-50	639.01	N.A.	54.70
40-70	58.45	N.A.	5.00
60-80	18.18	N.A.	1.60
70-80	8.95	N.A.	0.80
80-90	4.99	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	1168.36	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	135.17
10-20	357.52
20-30	414.21
30-40	189.07
40-50	35.74
50-60	13.48
60-70	9.23
70-80	8.95
80-90	4.99
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

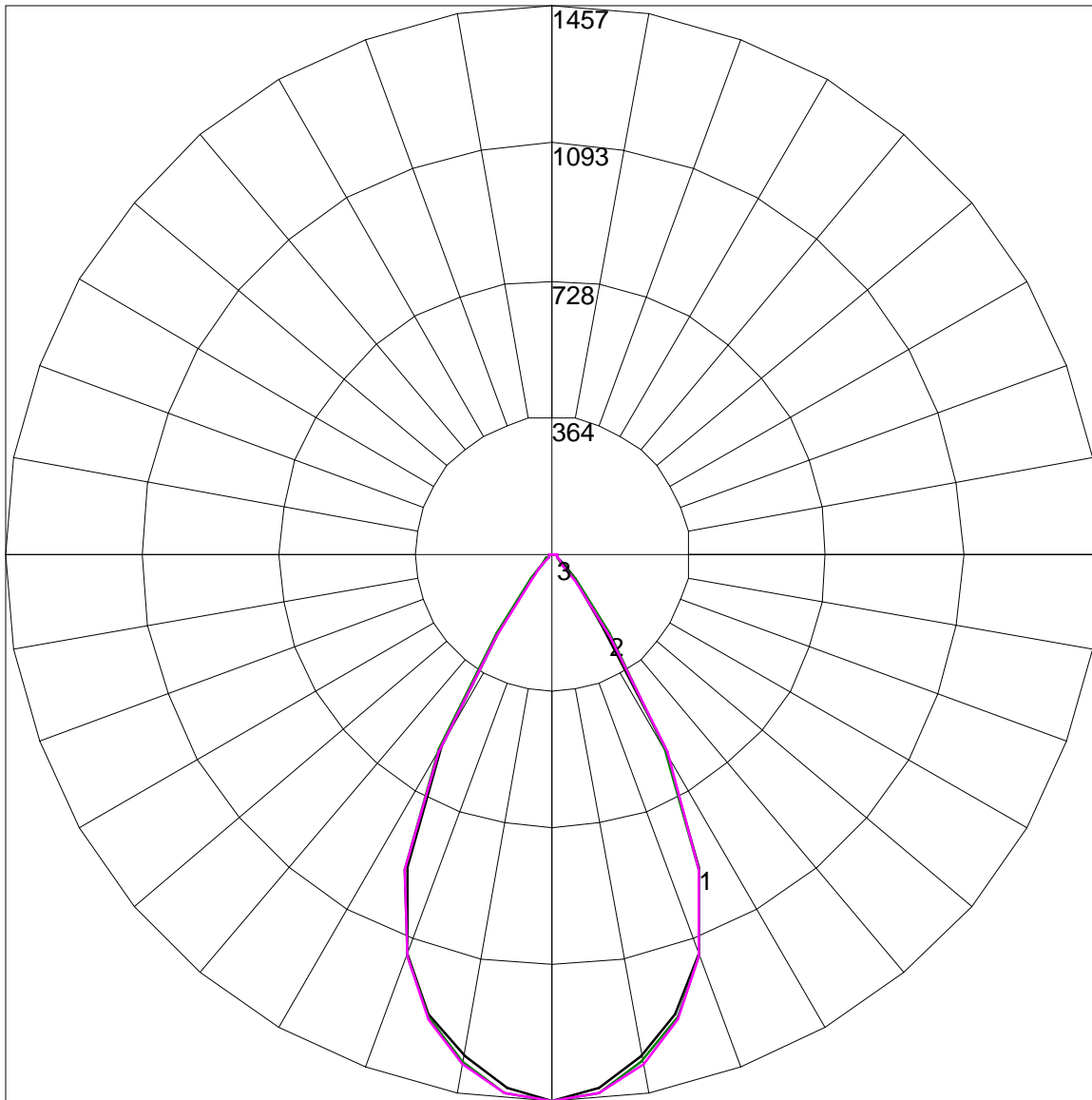
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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

POLAR GRAPH



Maximum Candela = 1456.988 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)