

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00551\_8 ~ 4XT-40LXXK-WDEX-MWSO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00551\_8\_M-40L  
 [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-40L-xxK-WD-EX-MW-SO  
 [OTHER] Matte White finish, no lens  
 [OTHER] 37.3 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: 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	3183
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	84
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.64
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	19033	21699	21436
55	13364	13992	13623
65	13242	13374	12599
75	11640	13570	12740
85	6720	12575	9049

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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>	6432.282	6432.282	6432.282	6432.282	6432.282
<b>5</b>	6094.507	6155.888	6144.769	6140.970	6136.390
<b>10</b>	5276.429	5371.385	5337.815	5373.906	5328.955
<b>15</b>	4110.469	4215.409	4169.305	4234.026	4127.739
<b>20</b>	2890.051	2969.751	2931.935	2993.183	2912.146
<b>25</b>	1842.908	1910.619	1872.427	1924.796	1855.104
<b>30</b>	1027.430	1071.683	1045.340	1069.898	1019.849
<b>35</b>	471.950	488.468	483.687	501.521	490.383
<b>40</b>	202.306	210.720	217.821	224.416	235.613
<b>45</b>	108.995	117.161	124.265	124.764	122.757
<b>50</b>	77.464	79.320	85.068	82.104	81.662
<b>55</b>	62.077	60.664	64.994	66.671	63.281
<b>60</b>	49.942	51.193	54.770	55.509	51.905
<b>65</b>	45.322	43.513	45.775	46.873	43.123
<b>70</b>	34.070	34.848	38.169	38.309	34.365
<b>75</b>	24.398	30.112	28.443	25.180	26.704
<b>80</b>	13.632	17.202	16.789	15.731	15.542
<b>85</b>	4.743	5.292	8.876	9.071	6.387
<b>90</b>	1.568	0.466	2.196	1.098	2.439

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1714.43	N.A.	53.90
0-30	2594.17	N.A.	81.50
0-40	2939.05	N.A.	92.30
0-60	3101.14	N.A.	97.40
0-80	3173.91	N.A.	99.70
0-90	3182.6	N.A.	100.00
10-90	2621.43	N.A.	82.40
20-40	1224.61	N.A.	38.50
20-50	1328.11	N.A.	41.70
40-70	206.60	N.A.	6.50
60-80	72.77	N.A.	2.30
70-80	28.26	N.A.	0.90
80-90	8.69	N.A.	0.30
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	3182.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	561.17
10-20	1153.26
20-30	879.73
30-40	344.88
40-50	103.50
50-60	58.60
60-70	44.50
70-80	28.26
80-90	8.69
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

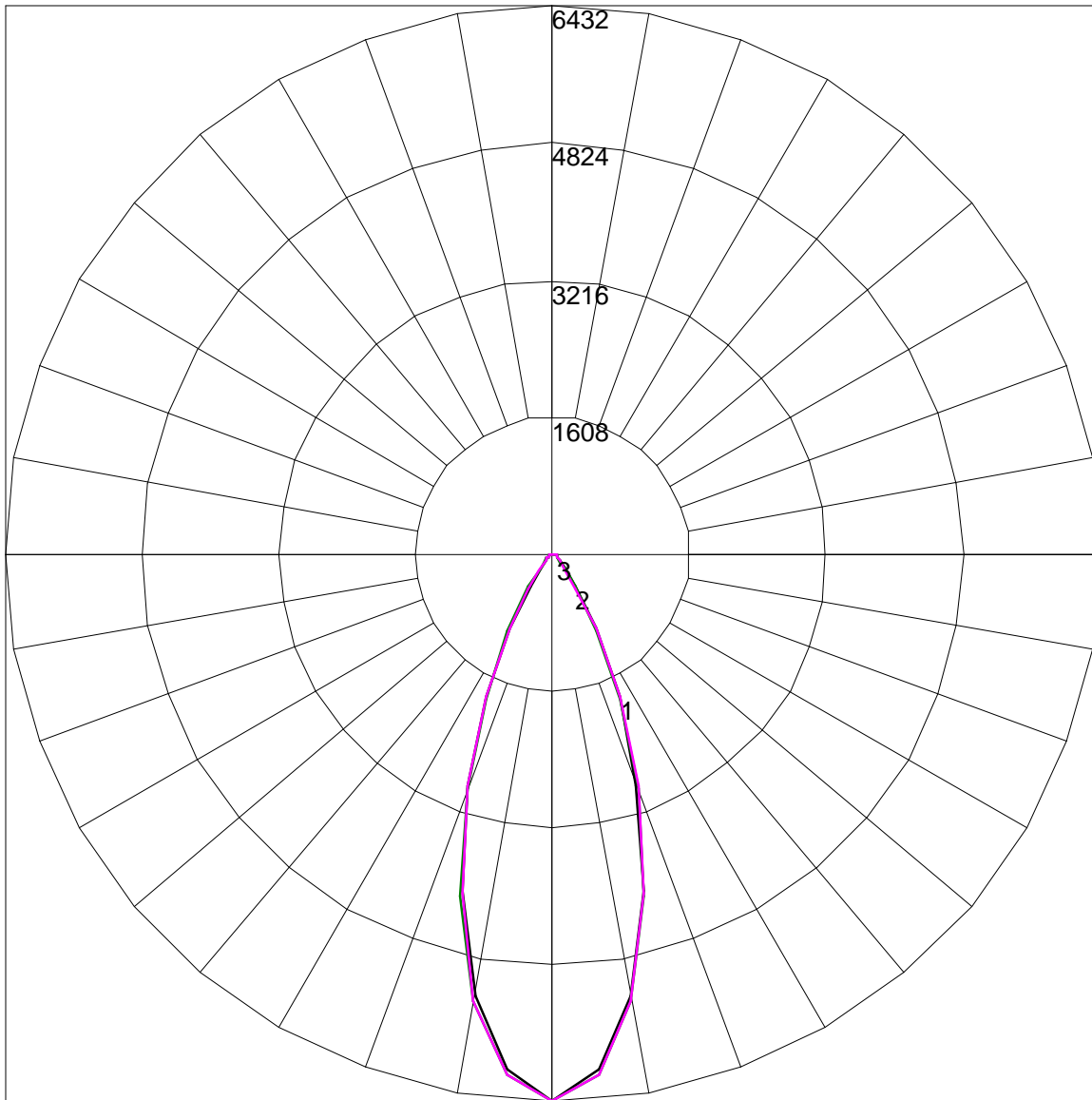
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58

POLAR GRAPH



Maximum Candela = 6432.282 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)