

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_4 ~ 4XT-10LXXK-MDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_4\_M-10L  
[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-10L-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	810
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	9.1
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	2528	2489	2204
55	3163	2968	2847
65	2839	2609	2700
75	3362	2902	2563
85	4094	3937	3470

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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>	2575.383	2575.383	2575.383	2575.383	2575.383
<b>5</b>	2297.997	2321.787	2307.562	2347.292	2326.507
<b>10</b>	1664.600	1715.666	1694.984	1737.285	1713.021
<b>15</b>	1038.307	1085.160	1068.125	1100.236	1080.176
<b>20</b>	633.275	656.779	648.585	662.774	652.842
<b>25</b>	404.140	425.890	409.884	425.348	409.805
<b>30</b>	230.135	243.349	229.171	245.338	232.102
<b>35</b>	75.049	71.047	75.951	68.686	77.098
<b>40</b>	17.167	19.281	18.238	15.334	16.994
<b>45</b>	14.477	14.981	14.252	12.845	12.620
<b>50</b>	14.842	14.145	14.123	13.588	13.242
<b>55</b>	14.695	14.885	13.786	13.828	13.223
<b>60</b>	12.850	12.449	11.813	13.366	12.037
<b>65</b>	9.717	9.712	8.928	9.849	9.240
<b>70</b>	7.255	7.266	7.723	7.666	6.050
<b>75</b>	7.047	6.343	6.083	6.004	5.372
<b>80</b>	5.803	5.794	4.865	5.089	3.949
<b>85</b>	2.890	3.186	2.779	2.991	2.449
<b>90</b>	0.490	0.529	0.354	0.321	0.555

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	510.77	N.A.	63.10
0-30	705.77	N.A.	87.20
0-40	766.53	N.A.	94.70
0-60	790.24	N.A.	97.60
0-80	806.41	N.A.	99.60
0-90	809.51	N.A.	100.00
10-90	606.75	N.A.	75.00
20-40	255.77	N.A.	31.60
20-50	267.21	N.A.	33.00
40-70	33.32	N.A.	4.10
60-80	16.16	N.A.	2.00
70-80	6.55	N.A.	0.80
80-90	3.10	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	809.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	202.77
10-20	308.00
20-30	195.00
30-40	60.76
40-50	11.45
50-60	12.26
60-70	9.61
70-80	6.55
80-90	3.10
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

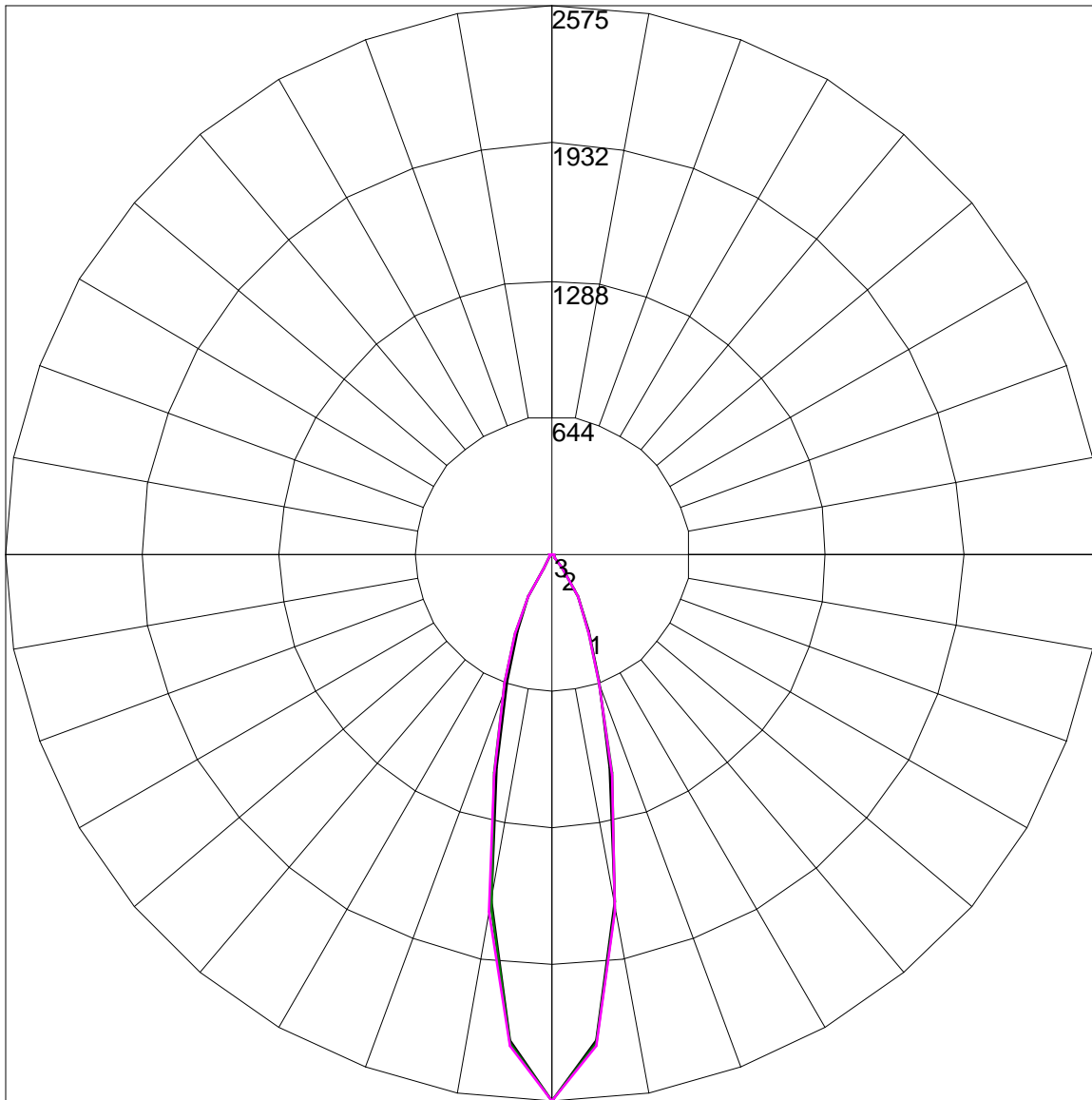
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	97	95	97	95	93	94	93	91	90
3	105	99	95	92	103	98	94	91	95	92	89	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	81	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	73	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64

POLAR GRAPH



Maximum Candela = 2575.383 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)