

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_3 ~ 4XT-10LXXK-MDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_3\_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-NL  
[OTHER] Matte white finish, no 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	872
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
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	1695	1572	1568
55	2573	2759	2372
65	3203	3372	3390
75	3037	3422	3087
85	4216	4433	3804

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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>	2851.185	2851.185	2851.185	2851.185	2851.185
<b>5</b>	2531.820	2584.023	2579.405	2646.215	2586.851
<b>10</b>	1841.918	1920.664	1868.251	1940.588	1880.615
<b>15</b>	1153.140	1204.986	1165.226	1198.446	1175.760
<b>20</b>	693.046	719.750	700.220	713.245	701.855
<b>25</b>	434.960	446.920	447.041	454.618	446.256
<b>30</b>	229.940	253.043	231.626	249.628	230.925
<b>35</b>	69.751	68.355	67.297	64.952	67.055
<b>40</b>	12.864	10.966	13.785	15.862	14.101
<b>45</b>	9.707	8.351	9.003	10.053	8.981
<b>50</b>	9.971	9.617	10.042	9.518	9.581
<b>55</b>	11.953	11.411	12.816	11.363	11.019
<b>60</b>	13.098	12.643	13.421	13.845	12.336
<b>65</b>	10.963	11.351	11.540	12.237	11.603
<b>70</b>	7.874	7.957	7.049	8.715	7.953
<b>75</b>	6.365	7.094	7.173	7.530	6.471
<b>80</b>	6.381	5.811	6.255	6.165	6.331
<b>85</b>	2.976	3.745	3.129	3.359	2.685
<b>90</b>	1.041	0.446	0.557	0.215	0.409

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	564.30	N.A.	64.70
0-30	772.56	N.A.	88.60
0-40	831.45	N.A.	95.40
0-60	849.92	N.A.	97.50
0-80	868.32	N.A.	99.60
0-90	871.91	N.A.	100.00
10-90	646.21	N.A.	74.10
20-40	267.16	N.A.	30.60
20-50	275.19	N.A.	31.60
40-70	29.43	N.A.	3.40
60-80	18.40	N.A.	2.10
70-80	7.44	N.A.	0.90
80-90	3.58	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	871.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	225.69
10-20	338.60
20-30	208.26
30-40	58.90
40-50	8.03
50-60	10.44
60-70	10.96
70-80	7.44
80-90	3.58
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

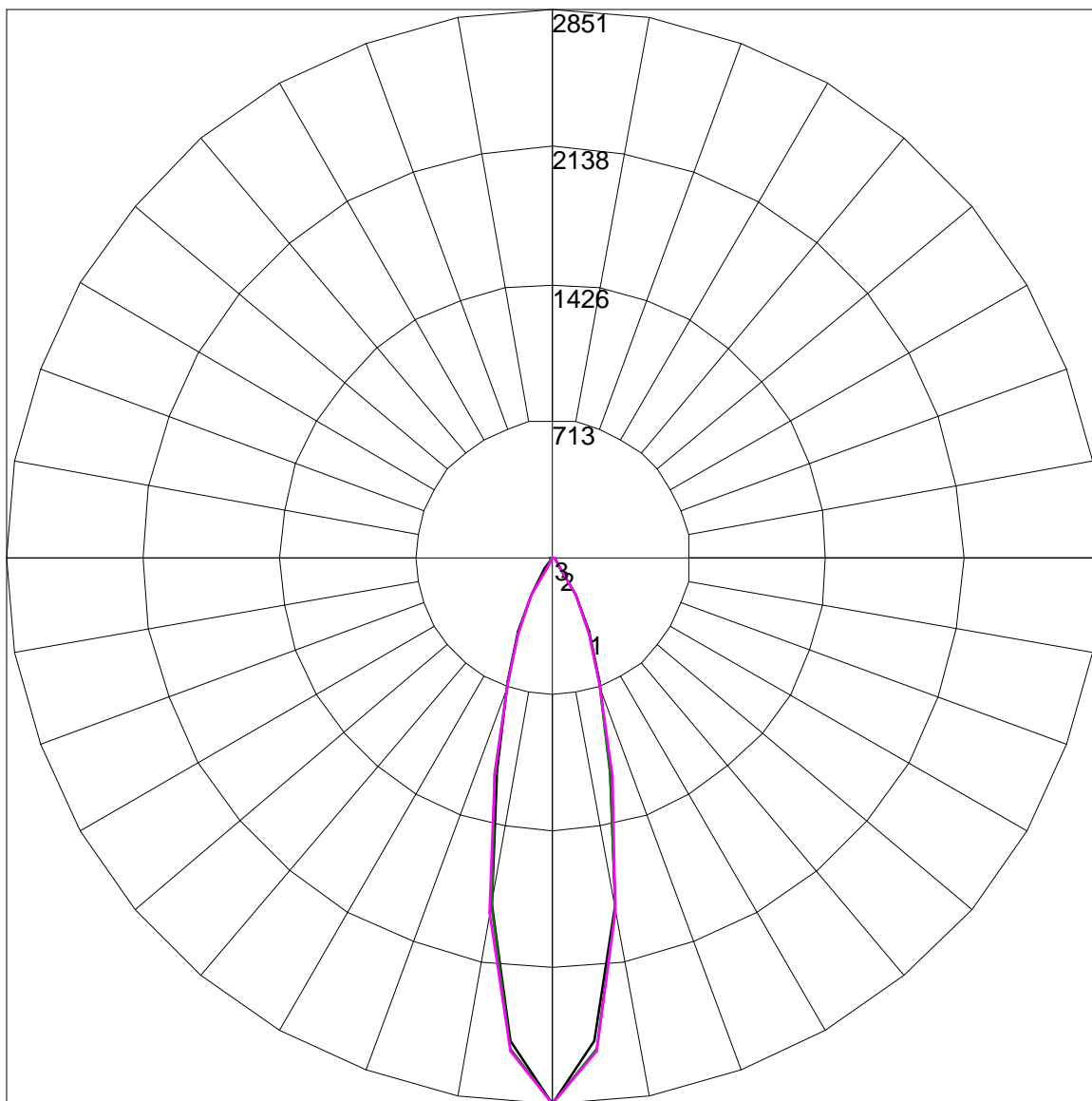
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90
3	105	100	95	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	85	83	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65

POLAR GRAPH



Maximum Candela = 2851.185 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)