

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_6 ~ 4XT-20LXXK-WDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_6\_M-20L  
[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-20L-xxK-WD-EX-MW-NL  
[OTHER] Matte White finish, no lens  
[OTHER] 36.3 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: 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	1779
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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	5415	5238	5198
55	6567	6302	6548
65	6218	6319	5968
75	8718	8145	8148
85	13139	12827	12228

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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>	3896.768	3896.768	3896.768	3896.768	3896.768
<b>5</b>	3705.034	3730.565	3713.690	3741.450	3722.190
<b>10</b>	3214.023	3271.758	3233.779	3286.455	3247.526
<b>15</b>	2443.354	2532.109	2473.314	2550.669	2482.030
<b>20</b>	1652.834	1715.244	1677.899	1735.467	1685.648
<b>25</b>	1060.777	1098.063	1077.387	1113.939	1095.431
<b>30</b>	535.149	590.168	557.118	604.741	558.780
<b>35</b>	154.674	174.997	166.310	185.352	159.586
<b>40</b>	37.940	34.899	38.264	37.636	39.445
<b>45</b>	31.009	30.367	29.995	31.224	29.769
<b>50</b>	31.501	28.904	28.674	30.103	31.058
<b>55</b>	30.503	28.918	29.274	29.647	30.419
<b>60</b>	27.604	27.567	27.142	27.634	27.690
<b>65</b>	21.281	23.368	21.628	22.597	20.428
<b>70</b>	17.714	17.952	18.649	17.811	17.781
<b>75</b>	18.274	18.856	17.072	16.729	17.080
<b>80</b>	16.332	17.794	16.682	16.574	16.025
<b>85</b>	9.274	10.465	9.054	8.946	8.631
<b>90</b>	1.359	0.666	0.836	0.544	1.075

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1029.01	N.A.	57.90
0-30	1532.69	N.A.	86.20
0-40	1677.25	N.A.	94.30
0-60	1728.08	N.A.	97.20
0-80	1768.82	N.A.	99.40
0-90	1778.71	N.A.	100.00
10-90	1437.88	N.A.	80.80
20-40	648.24	N.A.	36.40
20-50	672.97	N.A.	37.80
40-70	73.05	N.A.	4.10
60-80	40.74	N.A.	2.30
70-80	18.51	N.A.	1.00
80-90	9.89	N.A.	0.60
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	1778.71	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	340.83
10-20	688.18
20-30	503.67
30-40	144.57
40-50	24.74
50-60	26.09
60-70	22.23
70-80	18.51
80-90	9.89
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

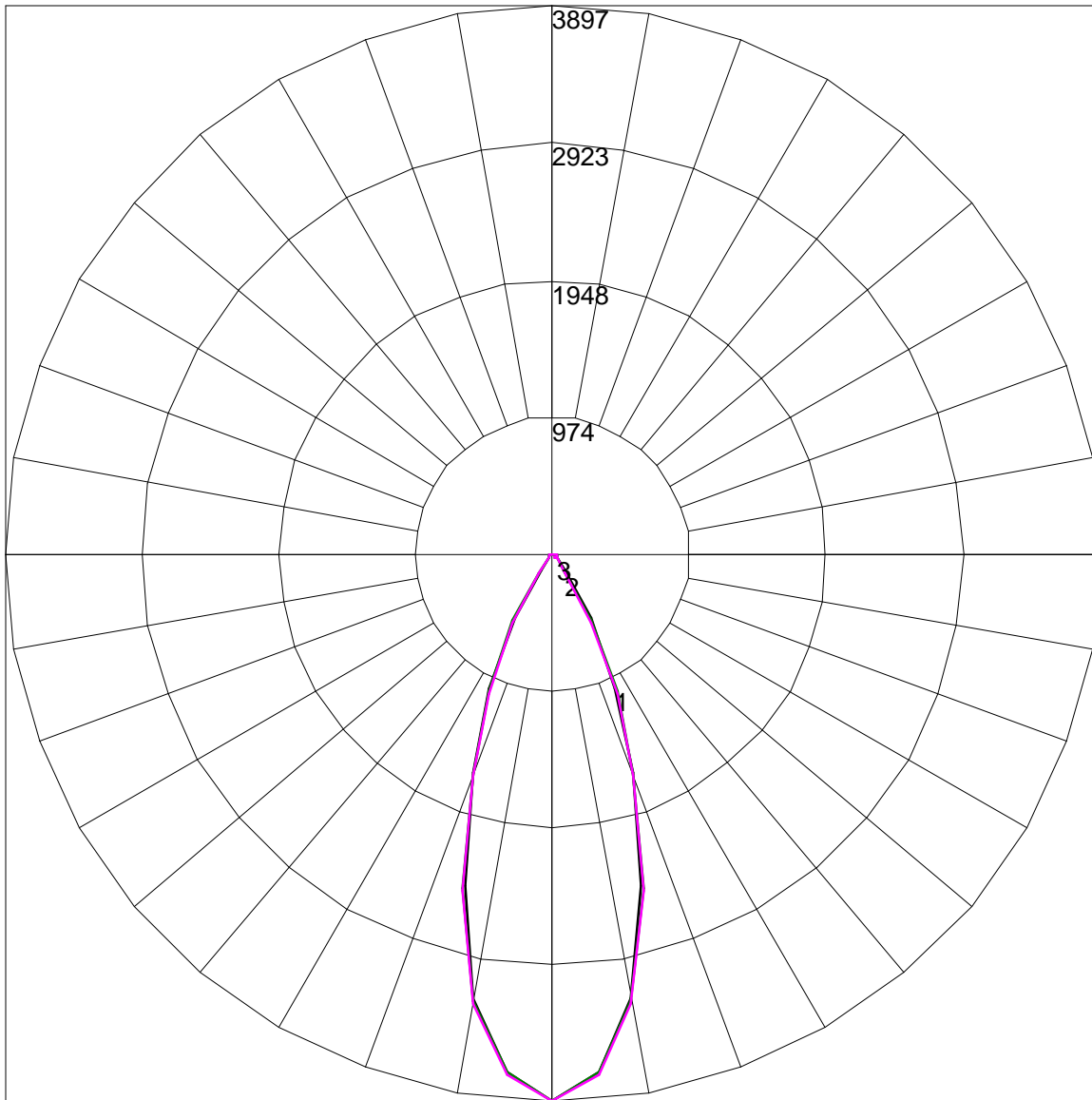
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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

POLAR GRAPH



Maximum Candela = 3896.768 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)