

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_2 ~ 4XT-20LXXK-NDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_2\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/4/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam  
[LUMCAT] 4XT-20L-xxK-ND-EX-MW-SO  
[OTHER] Matte white finish, solite lens  
[OTHER] 20.7 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	1701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.38
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

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00551\_2 ~ 4XT-20LXXK-NDEX-MWSO.IES**

**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8127	8009	7862
55	4879	4741	5182
65	4950	5029	4655
75	4044	3752	4134
85	2712	3672	3889

IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : SP-00551\_2 ~ 4XT-20LXXK-NDEX-MWSO.IES

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>	7410.930	7410.930	7410.930	7410.930	7410.930
<b>5</b>	6103.875	6179.349	6124.926	6204.440	6145.328
<b>10</b>	3787.965	3904.376	3822.043	3941.401	3814.466
<b>15</b>	2034.442	2089.836	2015.421	2134.213	2040.979
<b>20</b>	1138.518	1154.851	1105.347	1181.815	1138.716
<b>25</b>	698.875	703.329	670.105	719.414	696.557
<b>30</b>	408.840	420.478	398.885	418.368	408.605
<b>35</b>	200.400	213.260	204.388	205.019	197.759
<b>40</b>	88.897	94.727	92.107	90.658	85.788
<b>45</b>	46.543	42.829	45.866	45.808	45.024
<b>50</b>	30.389	28.558	28.866	30.449	30.702
<b>55</b>	22.663	23.171	22.025	24.413	24.073
<b>60</b>	19.636	19.292	19.110	19.155	19.804
<b>65</b>	16.943	13.459	17.213	16.933	15.933
<b>70</b>	12.428	11.122	12.640	10.803	12.555
<b>75</b>	8.476	7.477	7.864	10.002	8.666
<b>80</b>	5.439	5.025	6.069	5.413	4.104
<b>85</b>	1.914	2.557	2.592	2.182	2.745
<b>90</b>	1.444	0.305	1.099	0.686	0.798

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00551\_2 ~ 4XT-20LXXK-NDEX-MWSO.IES**

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1137.93	N.A.	66.90
0-30	1471.58	N.A.	86.50
0-40	1611.94	N.A.	94.80
0-60	1673.59	N.A.	98.40
0-80	1698.2	N.A.	99.80
0-90	1701.18	N.A.	100.00
10-90	1180.32	N.A.	69.40
20-40	474.01	N.A.	27.90
20-50	514.33	N.A.	30.20
40-70	77.27	N.A.	4.50
60-80	24.60	N.A.	1.40
70-80	8.98	N.A.	0.50
80-90	2.98	N.A.	0.20
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	1701.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	520.86
10-20	617.07
20-30	333.65
30-40	140.36
40-50	40.32
50-60	21.33
60-70	15.62
70-80	8.98
80-90	2.98
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

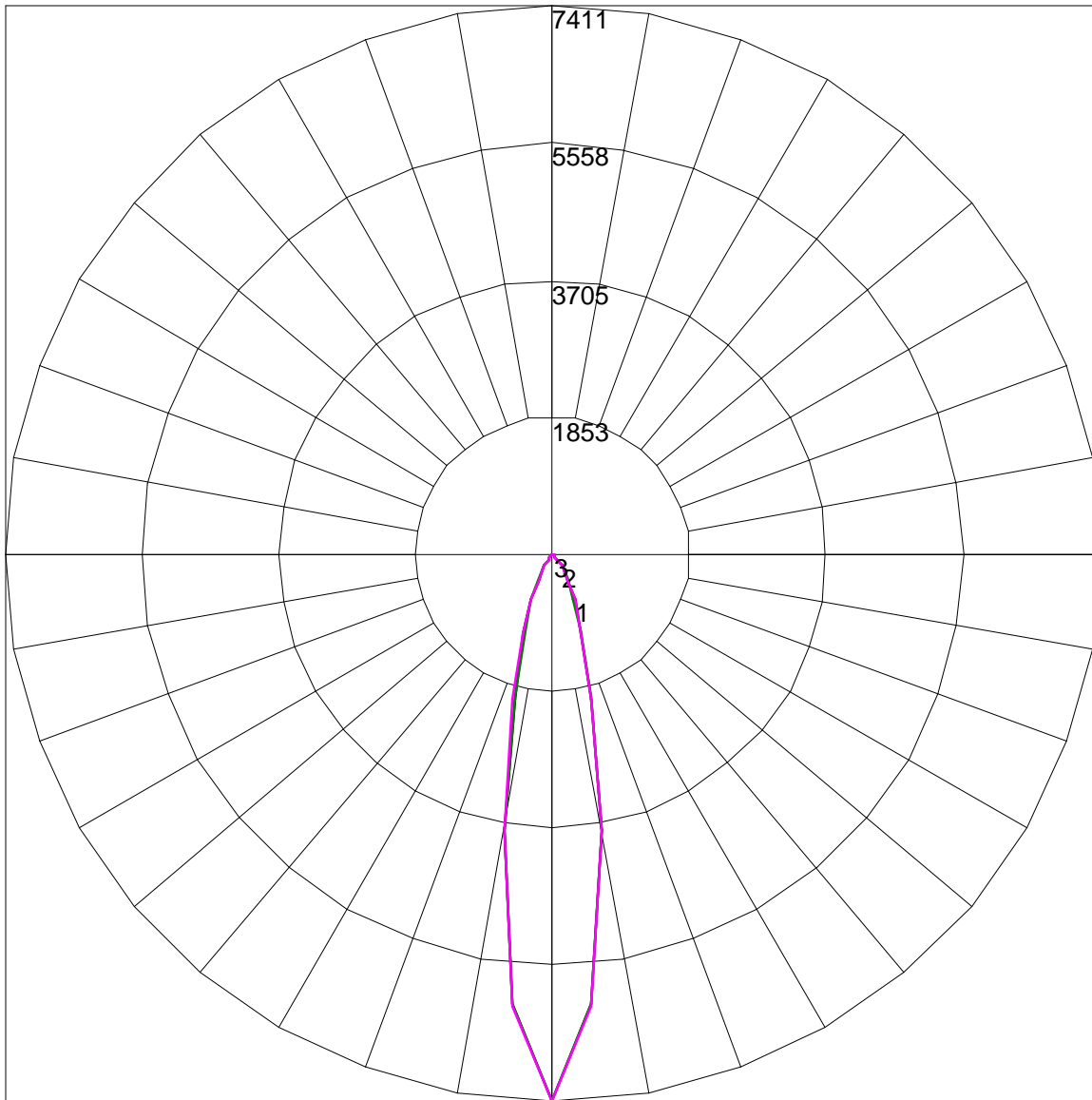
IES INDOOR REPORT  
 PHOTOMETRIC FILENAME : SP-00551\_2 ~ 4XT-20LXXK-NDEX-MWSO.IES

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

POLAR GRAPH



Maximum Candela = 7410.93 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)