

## IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551\_3 ~ 4XT-20LXXK-MDEX-MWNL.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002  
 [TEST] SP-00551\_3\_M-20L  
 [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-20L-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	1808
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	21.7
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_3 ~ 4XT-20LXXK-MDEX-MWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3514	3260	3252
55	5335	5721	4918
65	6641	6991	7029
75	6296	7095	6401
85	8743	9192	7886

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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>	5911.533	5911.533	5911.533	5911.533	5911.533
<b>5</b>	5249.375	5357.611	5348.037	5486.557	5363.473
<b>10</b>	3818.960	3982.228	3873.557	4023.537	3899.193
<b>15</b>	2390.874	2498.370	2415.933	2484.811	2437.774
<b>20</b>	1436.933	1492.301	1451.809	1478.814	1455.198
<b>25</b>	901.829	926.626	926.877	942.588	925.250
<b>30</b>	476.749	524.650	480.245	517.569	478.791
<b>35</b>	144.618	141.725	139.530	134.668	139.030
<b>40</b>	26.672	22.737	28.580	32.887	29.237
<b>45</b>	20.126	17.314	18.667	20.844	18.621
<b>50</b>	20.674	19.940	20.820	19.734	19.865
<b>55</b>	24.783	23.659	26.573	23.560	22.845
<b>60</b>	27.157	26.214	27.827	28.706	25.577
<b>65</b>	22.730	23.535	23.927	25.371	24.057
<b>70</b>	16.325	16.498	14.615	18.070	16.490
<b>75</b>	13.197	14.709	14.871	15.612	13.417
<b>80</b>	13.229	12.048	12.969	12.782	13.127
<b>85</b>	6.171	7.765	6.488	6.963	5.566
<b>90</b>	2.158	0.924	1.155	0.446	0.848

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1169.99	N.A.	64.70
0-30	1601.79	N.A.	88.60
0-40	1723.9	N.A.	95.40
0-60	1762.19	N.A.	97.50
0-80	1800.35	N.A.	99.60
0-90	1807.78	N.A.	100.00
10-90	1339.83	N.A.	74.10
20-40	553.91	N.A.	30.60
20-50	570.56	N.A.	31.60
40-70	61.01	N.A.	3.40
60-80	38.15	N.A.	2.10
70-80	15.43	N.A.	0.90
80-90	7.43	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	1807.78	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	467.94
10-20	702.04
20-30	431.80
30-40	122.11
40-50	16.65
50-60	21.64
60-70	22.72
70-80	15.43
80-90	7.43
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

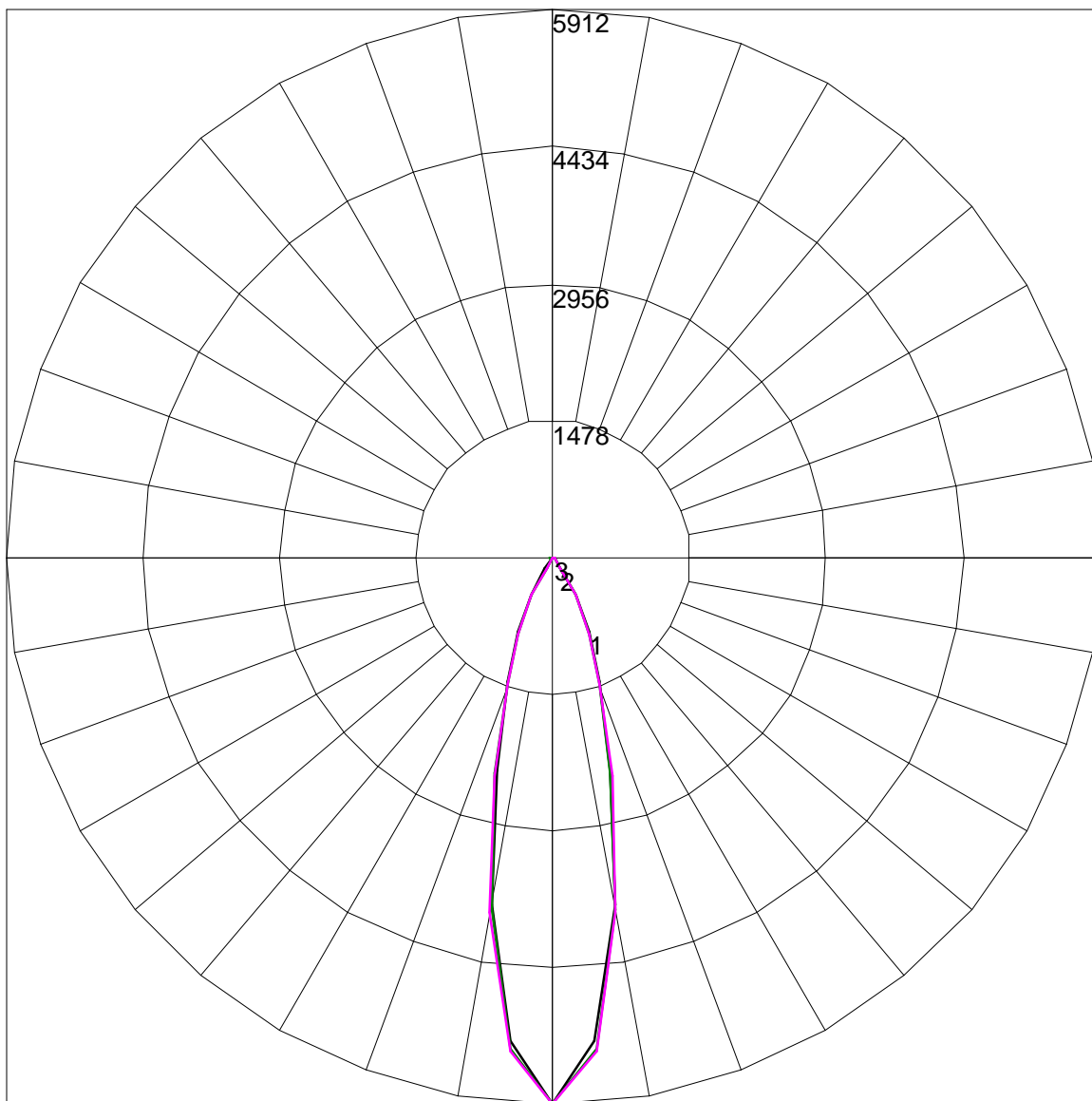
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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 = 5911.533 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)