

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_9 ~ 4XT-20LXXK-XWEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_9\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Diam Head/Module, Xtra Wide Beam  
[LUMCAT] 4XT-20L-xxK-XW-EX-MW-NL  
[OTHER] Matte White finish, no lens  
[OTHER] 56 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	1800
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)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.84
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	8982	10207	10694
55	4347	4864	4663
65	3912	4071	4003
75	5913	6177	6208
85	9349	9805	10835

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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>	2244.368	2244.368	2244.368	2244.368	2244.368
<b>5</b>	2198.839	2208.762	2218.038	2222.399	2225.157
<b>10</b>	2097.644	2112.256	2113.767	2124.007	2122.393
<b>15</b>	1957.327	1975.775	1968.447	1984.838	1972.771
<b>20</b>	1749.429	1776.224	1755.868	1779.043	1756.829
<b>25</b>	1423.050	1451.298	1424.445	1451.653	1424.930
<b>30</b>	917.752	967.957	928.861	973.585	931.047
<b>35</b>	353.848	419.003	403.760	431.719	407.780
<b>40</b>	120.851	138.875	137.848	145.621	143.358
<b>45</b>	51.434	59.637	58.449	64.028	61.241
<b>50</b>	28.291	32.025	30.046	32.933	31.265
<b>55</b>	20.191	22.373	22.595	23.194	21.659
<b>60</b>	17.131	17.525	16.018	18.044	17.778
<b>65</b>	13.391	14.614	13.932	12.924	13.700
<b>70</b>	11.943	13.034	11.492	13.967	12.211
<b>75</b>	12.395	13.968	12.947	13.377	13.013
<b>80</b>	12.796	13.323	13.485	12.199	13.047
<b>85</b>	6.599	6.683	6.921	8.173	7.648
<b>90</b>	0.755	0.729	1.017	0.556	1.082

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	758.95	N.A.	42.20
0-30	1397.00	N.A.	77.60
0-40	1688.24	N.A.	93.80
0-60	1764.05	N.A.	98.00
0-80	1792.06	N.A.	99.60
0-90	1799.75	N.A.	100.00
10-90	1591.53	N.A.	88.40
20-40	929.29	N.A.	51.60
20-50	984.34	N.A.	54.70
40-70	90.04	N.A.	5.00
60-80	28.01	N.A.	1.60
70-80	13.79	N.A.	0.80
80-90	7.69	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	1799.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	208.22
10-20	550.72
20-30	638.05
30-40	291.24
40-50	55.05
50-60	20.76
60-70	14.22
70-80	13.79
80-90	7.69
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

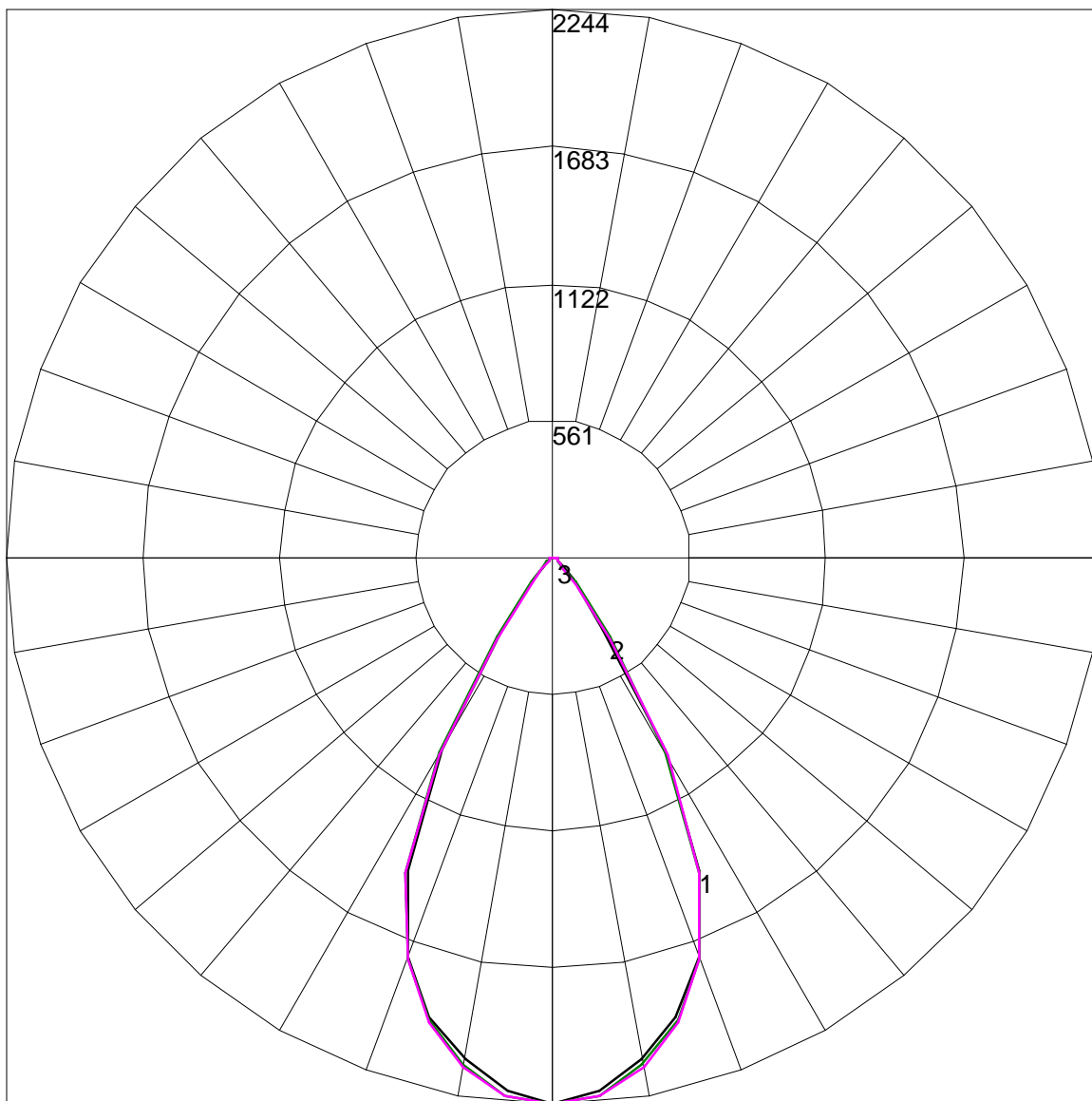
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**COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD**

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	53

POLAR GRAPH



Maximum Candela = 2244.368 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)