

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_10 ~ 4XT-20LXXK-XWEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_10\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Dia Head/Module, Xtra Wide Beam  
[LUMCAT] 4XT-20L-xxK-XW-EX-MW-GL  
[OTHER] Matte White finish, clear glass lens  
[OTHER] 55.8 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	1706
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	79
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	10607	10416	11273
55	4640	4807	5078
65	4140	4161	4506
75	6265	6056	5878
85	7340	8393	6999

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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>	2133.299	2133.299	2133.299	2133.299	2133.299
<b>5</b>	2105.432	2105.753	2098.022	2088.762	2076.638
<b>10</b>	2007.331	2012.324	1996.978	1990.615	1971.681
<b>15</b>	1865.085	1877.273	1861.465	1856.809	1836.116
<b>20</b>	1656.459	1680.524	1662.602	1666.712	1642.207
<b>25</b>	1336.210	1375.507	1355.820	1375.489	1342.660
<b>30</b>	868.082	909.639	884.073	916.846	890.786
<b>35</b>	383.888	376.513	357.741	391.434	403.234
<b>40</b>	133.397	134.658	128.571	142.317	142.545
<b>45</b>	60.743	61.125	59.650	63.843	64.554
<b>50</b>	32.622	32.284	33.698	34.644	34.957
<b>55</b>	21.552	22.833	22.330	24.890	23.589
<b>60</b>	15.985	17.183	17.095	17.471	17.719
<b>65</b>	14.170	15.548	14.242	15.431	15.422
<b>70</b>	14.170	14.690	14.333	14.291	14.140
<b>75</b>	13.132	14.450	12.694	12.630	12.321
<b>80</b>	10.949	10.283	9.412	8.629	8.556
<b>85</b>	5.181	5.515	5.924	4.798	4.940
<b>90</b>	0.736	0.595	1.407	0.583	0.744

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	716.51	N.A.	42.00
0-30	1319.81	N.A.	77.40
0-40	1593.94	N.A.	93.40
0-60	1671.48	N.A.	98.00
0-80	1699.98	N.A.	99.70
0-90	1705.7	N.A.	100.00
10-90	1508.71	N.A.	88.50
20-40	877.43	N.A.	51.40
20-50	933.31	N.A.	54.70
40-70	92.80	N.A.	5.40
60-80	28.50	N.A.	1.70
70-80	13.25	N.A.	0.80
80-90	5.72	N.A.	0.30
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	1705.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	196.99
10-20	519.53
20-30	603.29
30-40	274.13
40-50	55.89
50-60	21.66
60-70	15.25
70-80	13.25
80-90	5.72
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

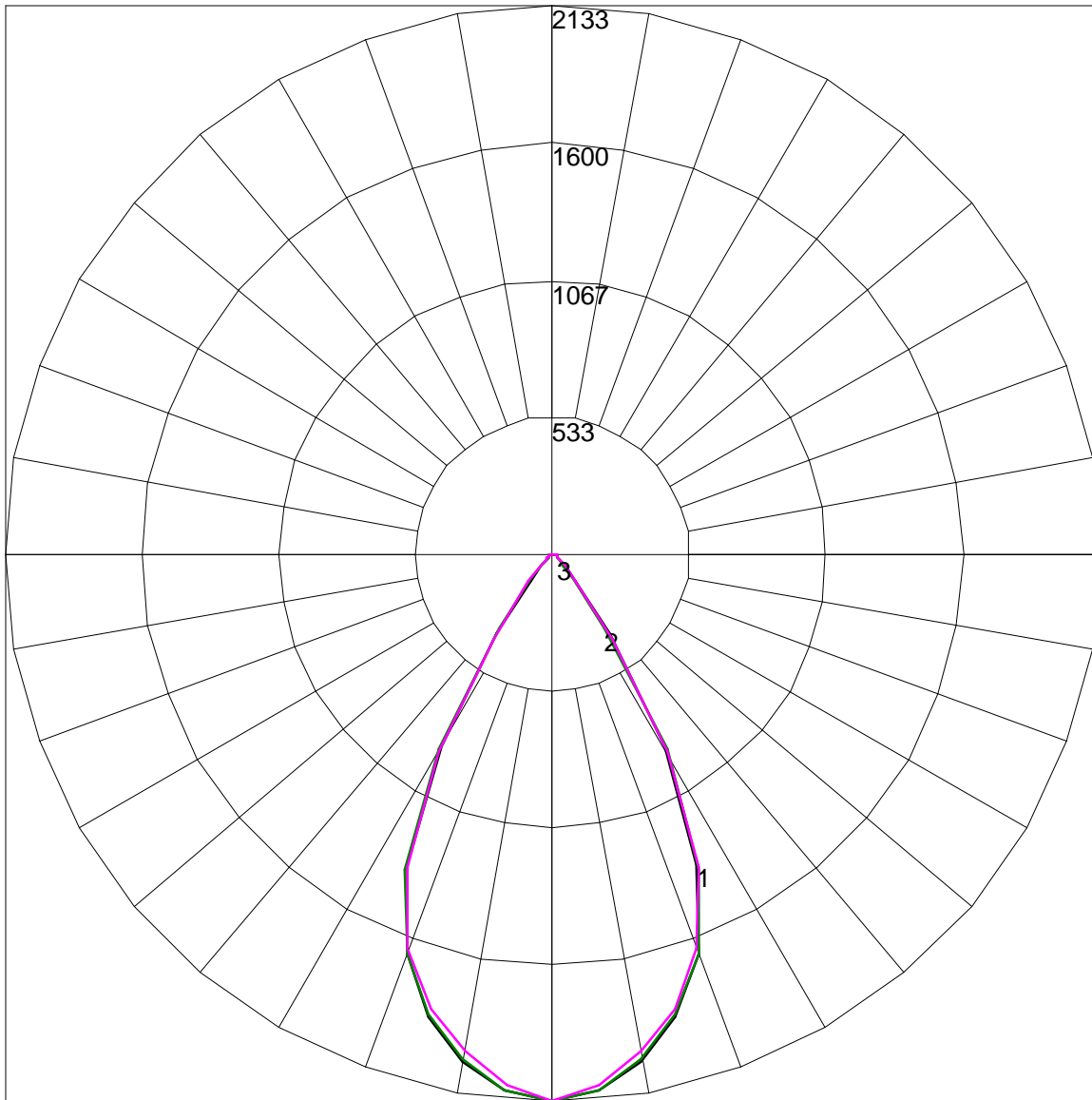
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 2133.299 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)