

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_2 ~ 4XT-30LXXK-NDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_2
[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-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2550
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	32.6
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

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LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12185	12008	11787
55	7315	7109	7770
65	7422	7540	6979
75	6062	5625	6199
85	4065	5505	5831

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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>
0	11110.840	11110.840	11110.840	11110.840	11110.840
5	9151.237	9264.391	9182.798	9302.009	9213.385
10	5679.108	5853.637	5730.199	5909.147	5718.839
15	3050.138	3133.187	3021.620	3199.719	3059.939
20	1706.923	1731.411	1657.192	1771.836	1707.220
25	1047.788	1054.467	1004.655	1078.582	1044.314
30	612.954	630.402	598.029	627.239	612.601
35	300.450	319.730	306.429	307.375	296.491
40	133.279	142.020	138.091	135.919	128.618
45	69.779	64.212	68.765	68.678	67.502
50	45.560	42.816	43.277	45.651	46.030
55	33.978	34.739	33.021	36.601	36.092
60	29.439	28.923	28.650	28.718	29.691
65	25.402	20.178	25.806	25.387	23.887
70	18.632	16.674	18.951	16.196	18.823
75	12.707	11.210	11.790	14.995	12.993
80	8.154	7.533	9.099	8.116	6.153
85	2.869	3.834	3.886	3.271	4.116
90	2.165	0.457	1.648	1.029	1.196

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1706.04	N.A.	66.90
0-30	2206.27	N.A.	86.50
0-40	2416.71	N.A.	94.80
0-60	2509.14	N.A.	98.40
0-80	2546.03	N.A.	99.80
0-90	2550.5	N.A.	100.00
10-90	1769.59	N.A.	69.40
20-40	710.66	N.A.	27.90
20-50	771.11	N.A.	30.20
40-70	115.85	N.A.	4.50
60-80	36.89	N.A.	1.40
70-80	13.47	N.A.	0.50
80-90	4.47	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	2550.5	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

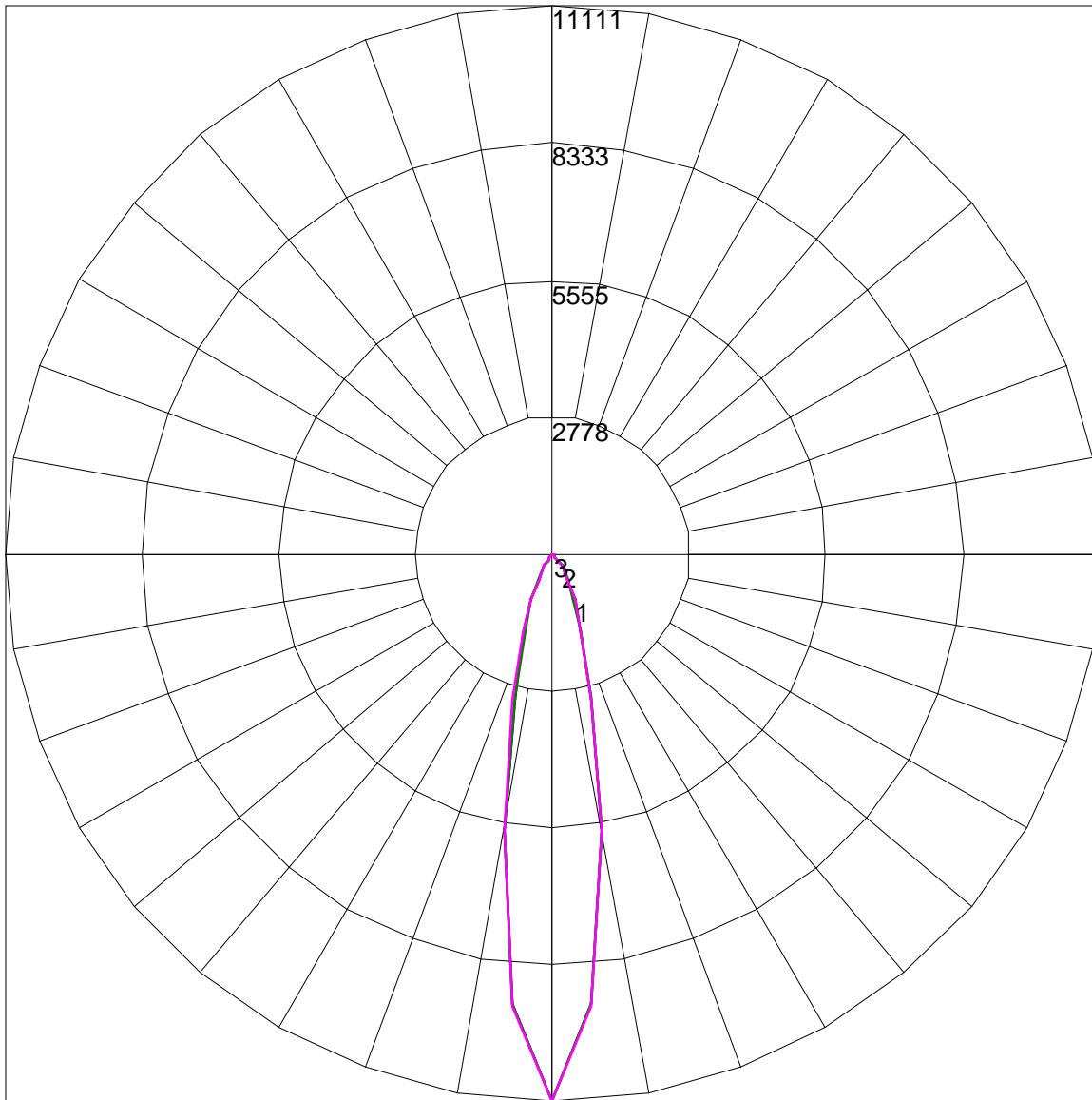
Zone	Lumens
0-10	780.90
10-20	925.14
20-30	500.23
30-40	210.43
40-50	60.45
50-60	31.98
60-70	23.42
70-80	13.47
80-90	4.47
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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	92	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 = 11110.84 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)