

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_2 ~ 4XT-13LXXK-NDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_2_M-13L
[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-13L-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	1104
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	13
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	5276	5199	5104
55	3167	3078	3364
65	3214	3265	3022
75	2625	2435	2684
85	1760	2384	2525

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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	4810.994	4810.994	4810.994	4810.994	4810.994
5	3962.486	4011.481	3976.152	4027.770	3989.396
10	2459.054	2534.625	2481.176	2558.661	2476.257
15	1320.710	1356.670	1308.361	1385.478	1324.954
20	739.098	749.701	717.564	767.205	739.226
25	453.692	456.584	435.016	467.026	452.188
30	265.409	272.964	258.947	271.594	265.256
35	130.095	138.443	132.684	133.093	128.381
40	57.710	61.495	59.793	58.853	55.692
45	30.214	27.804	29.775	29.738	29.228
50	19.727	18.539	18.739	19.767	19.931
55	14.712	15.042	14.298	15.848	15.628
60	12.747	12.524	12.405	12.435	12.856
65	10.999	8.737	11.174	10.993	10.343
70	8.068	7.220	8.206	7.013	8.150
75	5.502	4.854	5.105	6.493	5.626
80	3.531	3.262	3.940	3.514	2.664
85	1.242	1.660	1.683	1.416	1.782
90	0.937	0.198	0.714	0.446	0.518

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	738.72	N.A.	66.90
0-30	955.32	N.A.	86.50
0-40	1046.43	N.A.	94.80
0-60	1086.46	N.A.	98.40
0-80	1102.43	N.A.	99.80
0-90	1104.37	N.A.	100.00
10-90	766.23	N.A.	69.40
20-40	307.72	N.A.	27.90
20-50	333.89	N.A.	30.20
40-70	50.16	N.A.	4.50
60-80	15.97	N.A.	1.40
70-80	5.83	N.A.	0.50
80-90	1.94	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	1104.37	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	338.13
10-20	400.59
20-30	216.60
30-40	91.12
40-50	26.18
50-60	13.85
60-70	10.14
70-80	5.83
80-90	1.94
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

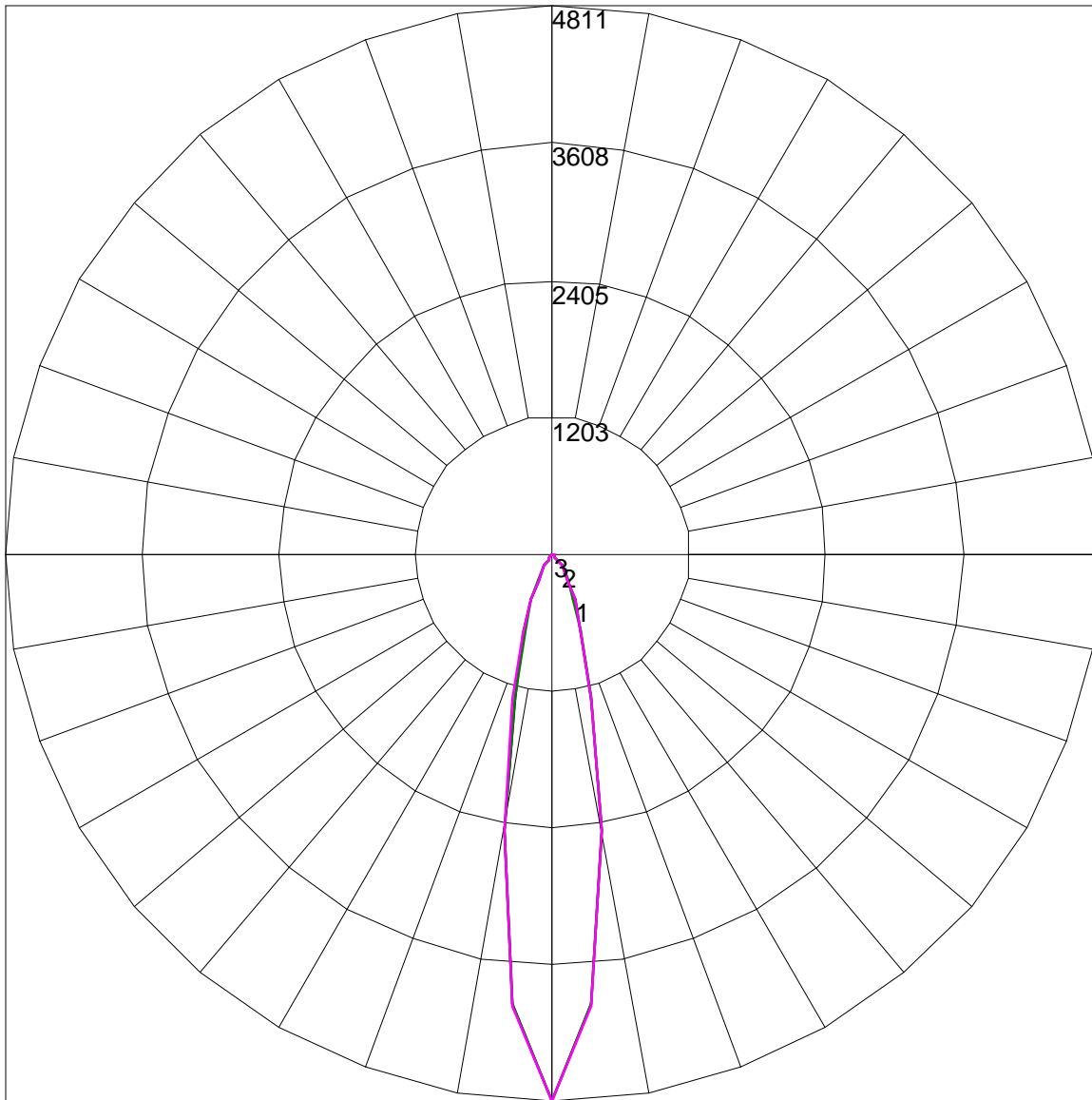
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	82	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 = 4810.994 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)