

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_6 ~ 4XT-13LXXK-WDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_6_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Wide Beam
[LUMCAT] 4XT-13L-xxK-WD-EX-MW-NL
[OTHER] Matte White finish, no lens
[OTHER] 36.3 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	1155
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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	3515	3400	3375
55	4263	4091	4251
65	4036	4102	3874
75	5660	5287	5290
85	8529	8328	7938

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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	2529.686	2529.686	2529.686	2529.686	2529.686
5	2405.217	2421.791	2410.836	2428.857	2416.354
10	2086.465	2123.945	2099.290	2133.486	2108.214
15	1586.166	1643.783	1605.615	1655.831	1611.273
20	1072.979	1113.494	1089.250	1126.622	1094.281
25	688.630	712.835	699.413	723.142	711.127
30	347.406	383.122	361.668	392.583	362.746
35	100.411	113.604	107.964	120.326	103.600
40	24.629	22.656	24.840	24.432	25.607
45	20.130	19.714	19.472	20.270	19.325
50	20.450	18.764	18.615	19.542	20.162
55	19.802	18.773	19.004	19.246	19.747
60	17.920	17.896	17.620	17.940	17.976
65	13.815	15.170	14.040	14.670	13.261
70	11.500	11.654	12.106	11.562	11.543
75	11.863	12.241	11.083	10.860	11.088
80	10.602	11.551	10.829	10.760	10.403
85	6.020	6.794	5.878	5.808	5.603
90	0.882	0.432	0.543	0.353	0.698

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	668.01	N.A.	57.90
0-30	994.98	N.A.	86.20
0-40	1088.83	N.A.	94.30
0-60	1121.83	N.A.	97.20
0-80	1148.27	N.A.	99.40
0-90	1154.7	N.A.	100.00
10-90	933.44	N.A.	80.80
20-40	420.82	N.A.	36.40
20-50	436.88	N.A.	37.80
40-70	47.42	N.A.	4.10
60-80	26.45	N.A.	2.30
70-80	12.02	N.A.	1.00
80-90	6.42	N.A.	0.60
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	1154.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	221.26
10-20	446.75
20-30	326.97
30-40	93.85
40-50	16.06
50-60	16.94
60-70	14.43
70-80	12.02
80-90	6.42
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

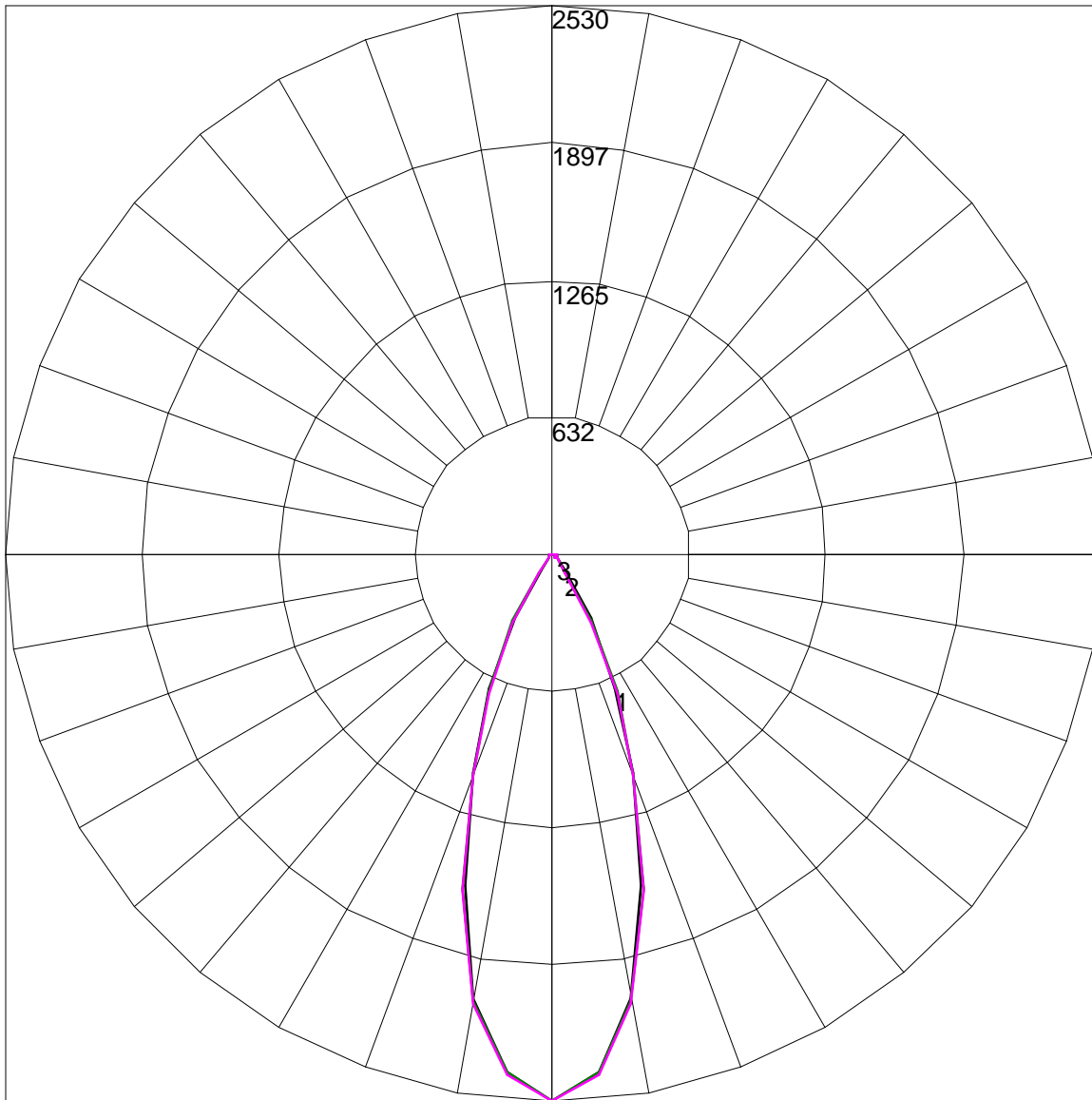
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	94	90	102	97	93	89	94	91	88	92	89	87	90	87	85	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	87	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69
8	85	77	72	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	74	69	65	81	73	68	65	72	68	65	71	67	65	71	67	64	63
10	79	71	66	62	78	70	65	62	69	65	62	69	65	62	68	64	62	61

POLAR GRAPH



Maximum Candela = 2529.686 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)