

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_3 ~ 4XT-13LXXK-MDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_3_M-13L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Medium Beam
[LUMCAT] 4XT-13L-xxK-MD-EX-MW-NL
[OTHER] Matte white finish, no lens
[OTHER] 26 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	1174
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.48
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	2281	2116	2111
55	3464	3713	3193
65	4311	4538	4563
75	4087	4606	4155
85	5675	5967	5119

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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	3837.622	3837.622	3837.622	3837.622	3837.622
5	3407.765	3478.029	3471.814	3561.738	3481.835
10	2479.175	2585.165	2514.618	2611.982	2531.260
15	1552.097	1621.880	1568.364	1613.078	1582.543
20	932.822	968.765	942.479	960.009	944.679
25	585.445	601.543	601.706	611.905	600.649
30	309.494	340.590	311.763	335.993	310.820
35	93.883	92.004	90.580	87.423	90.255
40	17.315	14.760	18.554	21.349	18.980
45	13.065	11.240	12.118	13.531	12.088
50	13.421	12.945	13.516	12.811	12.896
55	16.089	15.359	17.250	15.294	14.831
60	17.630	17.017	18.065	18.635	16.604
65	14.756	15.278	15.533	16.470	15.617
70	10.598	10.710	9.488	11.731	10.705
75	8.567	9.549	9.654	10.135	8.710
80	8.588	7.821	8.419	8.298	8.521
85	4.006	5.041	4.212	4.521	3.613
90	1.401	0.600	0.750	0.289	0.551

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	759.53	N.A.	64.70
0-30	1039.84	N.A.	88.60
0-40	1119.11	N.A.	95.40
0-60	1143.97	N.A.	97.50
0-80	1168.74	N.A.	99.60
0-90	1173.57	N.A.	100.00
10-90	869.79	N.A.	74.10
20-40	359.59	N.A.	30.60
20-50	370.40	N.A.	31.60
40-70	39.61	N.A.	3.40
60-80	24.77	N.A.	2.10
70-80	10.02	N.A.	0.90
80-90	4.83	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	1173.57	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	303.78
10-20	455.75
20-30	280.32
30-40	79.27
40-50	10.81
50-60	14.05
60-70	14.75
70-80	10.02
80-90	4.83
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

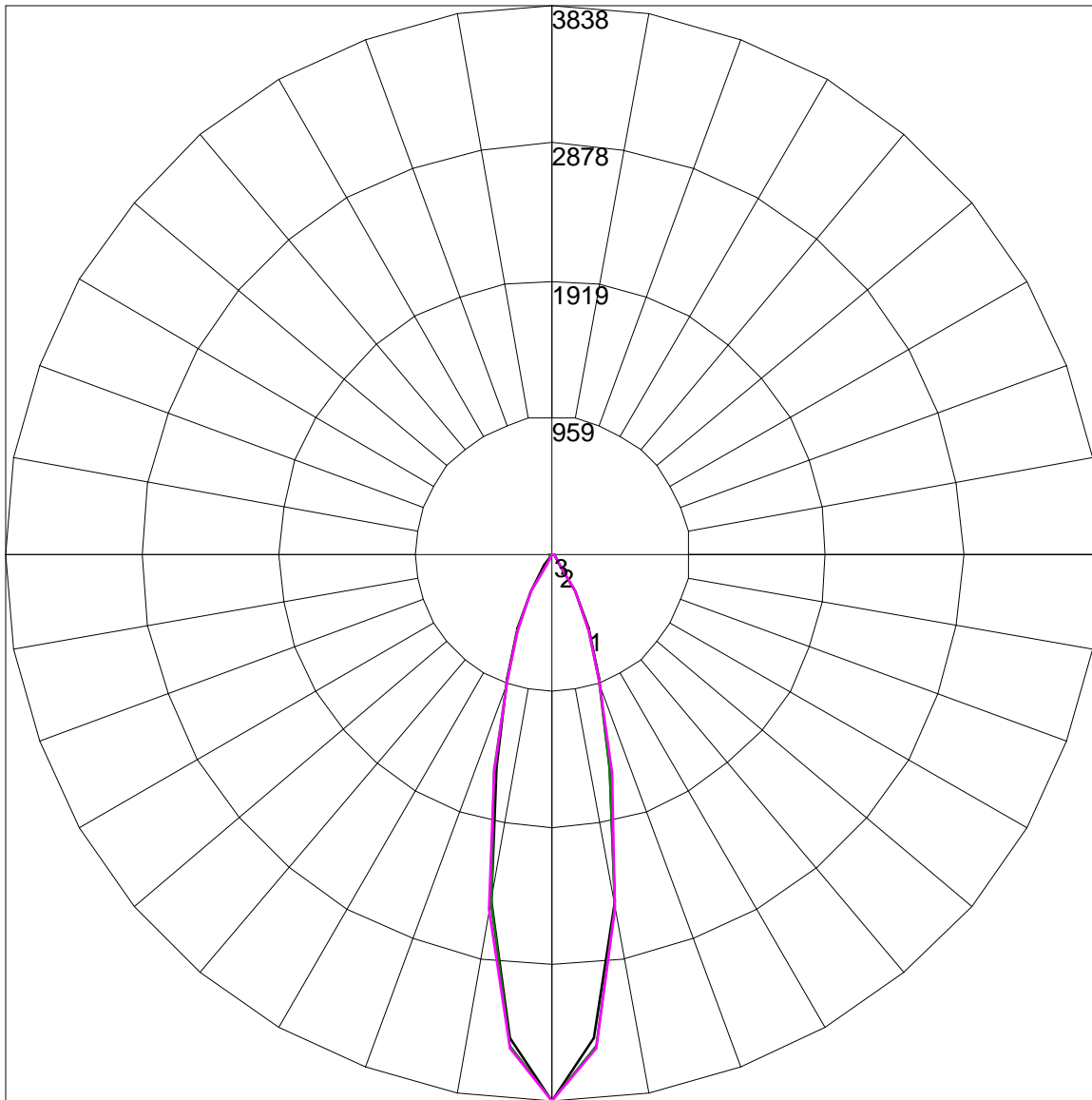
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	104	100	98	100	98	96	97	95	93	95	93	92	90
3	105	100	95	92	103	98	94	91	96	93	90	93	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	85	83	82
5	97	91	86	82	96	90	85	82	88	84	81	86	83	80	85	82	80	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	87	79	75	72	79	74	71	78	74	71	77	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	68	66	65

POLAR GRAPH



Maximum Candela = 3837.622 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)