

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_11 ~ 4XT-40LXXK-XWEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_11_M-40L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/6/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Head/Module, Xtra Wide Beam
[LUMCAT] 4XT-40L-xxK-XW-EX-MW-SO
[OTHER] Matte White finish, Solite lens
[OTHER] 51.8 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: 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	3211
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.80
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	30230	34549	35623
55	14717	15969	15986
65	11325	12395	12831
75	9651	9509	10232
85	7516	7796	8695

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	4115.705	4115.705	4115.705	4115.705	4115.705
5	4040.587	4040.465	4032.682	4041.060	4010.283
10	3838.424	3849.711	3831.631	3847.569	3813.797
15	3487.342	3517.097	3485.837	3523.766	3497.572
20	2947.433	2994.776	2962.651	3035.469	3004.180
25	2207.099	2256.569	2243.175	2316.654	2305.311
30	1399.918	1434.173	1443.456	1500.667	1496.908
35	720.688	772.848	795.502	814.645	811.368
40	336.206	383.594	391.472	397.099	400.219
45	173.116	197.637	197.850	199.589	204.002
50	100.427	113.270	112.600	110.908	114.314
55	68.363	75.107	74.179	74.630	74.259
60	50.882	55.954	55.938	54.560	56.238
65	38.761	42.945	42.425	42.724	43.915
70	28.862	31.528	29.879	31.333	32.570
75	20.229	23.478	19.931	20.751	21.447
80	11.013	13.525	11.705	13.241	11.411
85	5.305	5.294	5.503	5.657	6.137
90	2.155	1.622	1.677	1.491	2.130

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1350.16	N.A.	42.10
0-30	2373.25	N.A.	73.90
0-40	2899.28	N.A.	90.30
0-60	3138.85	N.A.	97.80
0-80	3203.69	N.A.	99.80
0-90	3210.56	N.A.	100.00
10-90	2831.46	N.A.	88.20
20-40	1549.12	N.A.	48.30
20-50	1718.72	N.A.	53.50
40-70	281.77	N.A.	8.80
60-80	64.84	N.A.	2.00
70-80	22.63	N.A.	0.70
80-90	6.87	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	3210.56	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	379.10
10-20	971.06
20-30	1023.09
30-40	526.03
40-50	169.60
50-60	69.97
60-70	42.21
70-80	22.63
80-90	6.87
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

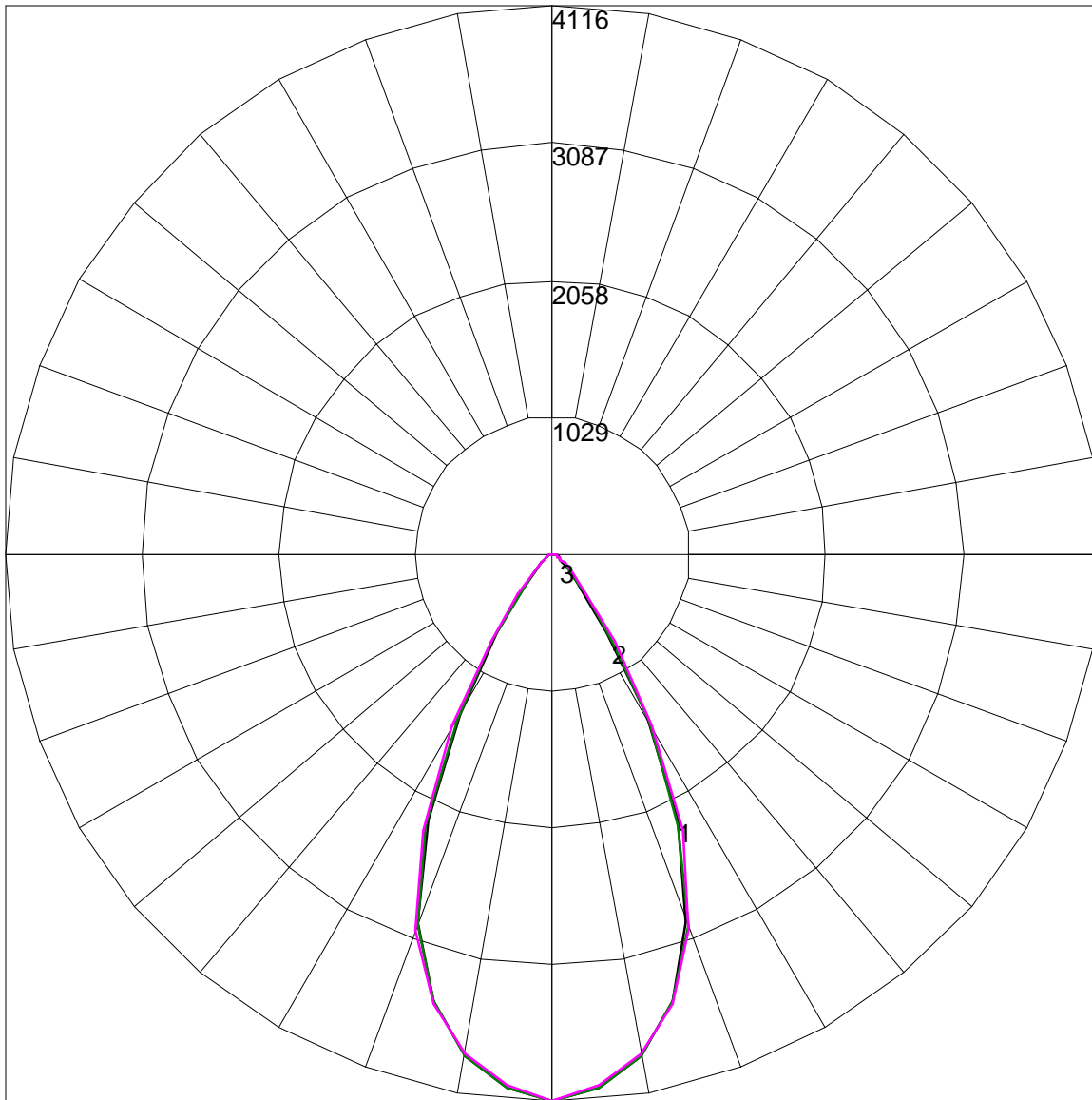
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	106	111	108	106	104	104	102	101	101	99	98	97	96	95	93
2	108	103	99	95	105	101	97	94	98	95	92	95	92	90	92	90	88	87
3	102	96	91	87	100	94	90	86	92	88	85	89	86	83	87	84	82	80
4	97	90	84	80	95	88	83	79	86	82	78	84	81	77	82	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	75	69	64	82	74	68	64	73	68	64	71	67	64	70	66	63	62
8	80	70	65	60	79	70	64	60	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	58	54	72	63	57	54	62	57	54	61	57	53	61	56	53	52

POLAR GRAPH



Maximum Candela = 4115.705 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)