

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_4 ~ 4XT-40LXXK-MDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_4_M-40L
[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-40L-xxK-MD-EX-MW-GL
[OTHER] Matte White finish, clear glass 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: 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	3228
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)	0.44
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	10083	9926	8789
55	12617	11836	11352
65	11323	10403	10766
75	13408	11574	10222
85	16329	15702	13840

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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	10271.110	10271.110	10271.110	10271.110	10271.110
5	9164.844	9259.723	9202.990	9361.443	9278.548
10	6638.736	6842.399	6759.914	6928.618	6831.848
15	4140.965	4327.822	4259.883	4387.946	4307.943
20	2525.620	2619.357	2586.681	2643.269	2603.657
25	1611.785	1698.528	1634.693	1696.368	1634.378
30	917.822	970.521	913.977	978.454	925.667
35	299.310	283.351	302.909	273.935	307.481
40	68.465	76.898	72.736	61.153	67.776
45	57.739	59.748	56.841	51.228	50.331
50	59.191	56.414	56.326	54.193	52.811
55	58.607	59.363	54.982	55.148	52.734
60	51.249	49.650	47.113	53.305	48.006
65	38.754	38.735	35.607	39.278	36.850
70	28.935	28.977	30.802	30.575	24.127
75	28.105	25.297	24.260	23.945	21.426
80	23.145	23.108	19.403	20.296	15.749
85	11.526	12.706	11.083	11.929	9.769
90	1.955	2.111	1.413	1.280	2.212

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2037.04	N.A.	63.10
0-30	2814.75	N.A.	87.20
0-40	3057.08	N.A.	94.70
0-60	3151.64	N.A.	97.60
0-80	3216.1	N.A.	99.60
0-90	3228.48	N.A.	100.00
10-90	2419.82	N.A.	75.00
20-40	1020.04	N.A.	31.60
20-50	1065.69	N.A.	33.00
40-70	132.88	N.A.	4.10
60-80	64.46	N.A.	2.00
70-80	26.13	N.A.	0.80
80-90	12.38	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	3228.48	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	808.67
10-20	1228.37
20-30	777.71
30-40	242.33
40-50	45.65
50-60	48.91
60-70	38.32
70-80	26.13
80-90	12.38
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

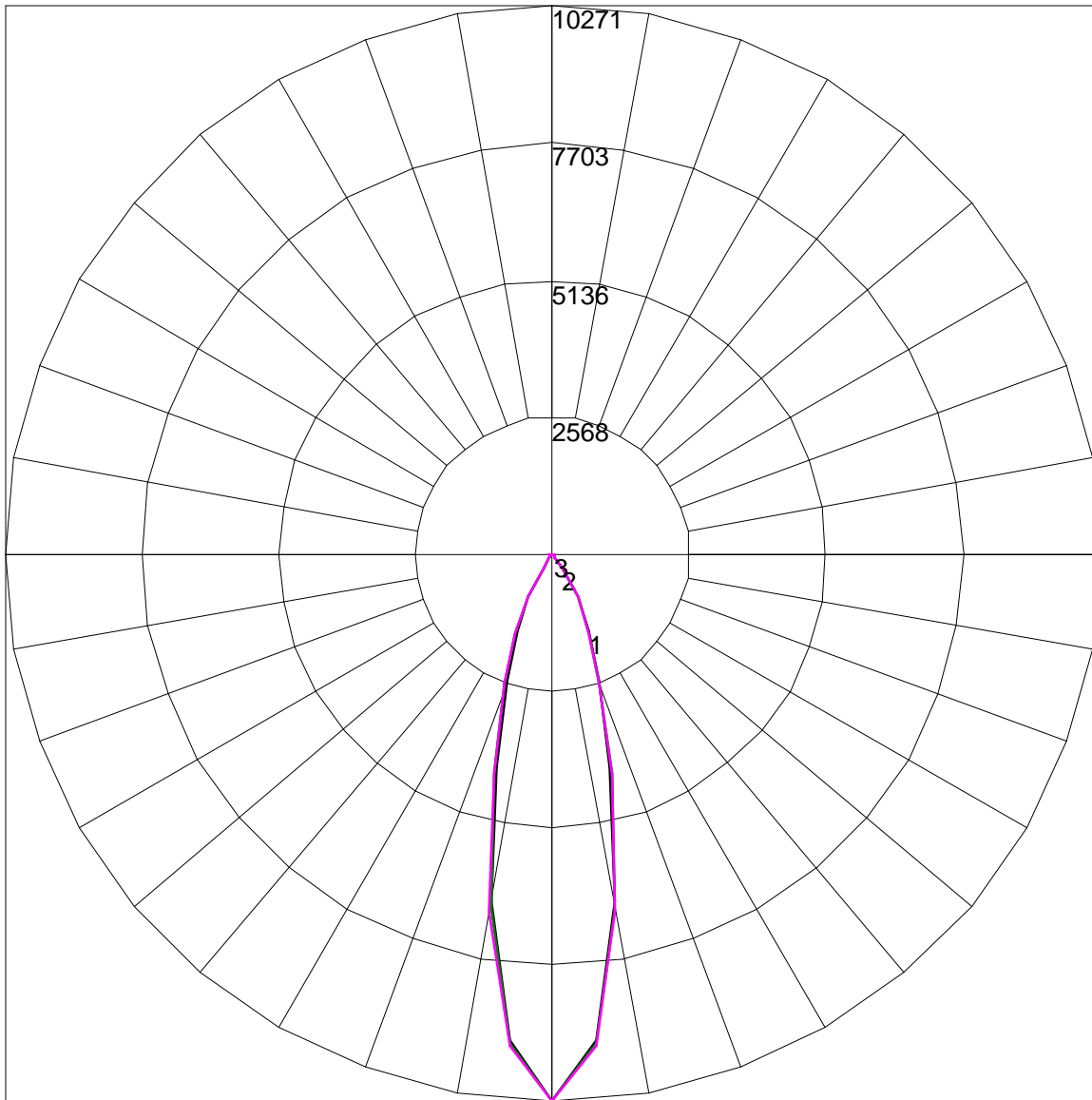
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85
4	101	95	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	84	82	79	78
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	81	78	76	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64

POLAR GRAPH



Maximum Candela = 10271.11 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)