

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_6 ~ 4XT-40LXXK-WDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_6_M-40L
[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-40L-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: 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	3421
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	37.9
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	10416	10075	9999
55	12631	12122	12596
65	11960	12155	11481
75	16770	15666	15674
85	25273	24672	23521

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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	7495.582	7495.582	7495.582	7495.582	7495.582
5	7126.775	7175.884	7143.424	7196.822	7159.775
10	6182.296	6293.351	6220.297	6321.622	6246.741
15	4699.886	4870.609	4757.514	4906.309	4774.280
20	3179.289	3299.337	3227.502	3338.236	3242.409
25	2040.445	2112.166	2072.395	2142.705	2107.103
30	1029.380	1135.210	1071.639	1163.242	1074.835
35	297.521	336.614	319.903	356.532	306.971
40	72.978	67.130	73.602	72.395	75.874
45	59.647	58.412	57.697	60.060	57.262
50	60.594	55.598	55.156	57.904	59.742
55	58.673	55.626	56.310	57.027	58.511
60	53.098	53.026	52.209	53.156	53.262
65	40.935	44.949	41.603	43.467	39.294
70	34.074	34.531	35.871	34.260	34.202
75	35.152	36.270	32.838	32.179	32.854
80	31.416	34.227	32.088	31.881	30.825
85	17.839	20.130	17.415	17.209	16.602
90	2.615	1.280	1.608	1.047	2.068

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1979.35	N.A.	57.90
0-30	2948.18	N.A.	86.20
0-40	3226.26	N.A.	94.30
0-60	3324.02	N.A.	97.20
0-80	3402.39	N.A.	99.40
0-90	3421.42	N.A.	100.00
10-90	2765.82	N.A.	80.80
20-40	1246.91	N.A.	36.40
20-50	1294.49	N.A.	37.80
40-70	140.52	N.A.	4.10
60-80	78.37	N.A.	2.30
70-80	35.61	N.A.	1.00
80-90	19.03	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	3421.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	655.60
10-20	1323.75
20-30	968.83
30-40	278.08
40-50	47.58
50-60	50.18
60-70	42.75
70-80	35.61
80-90	19.03
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

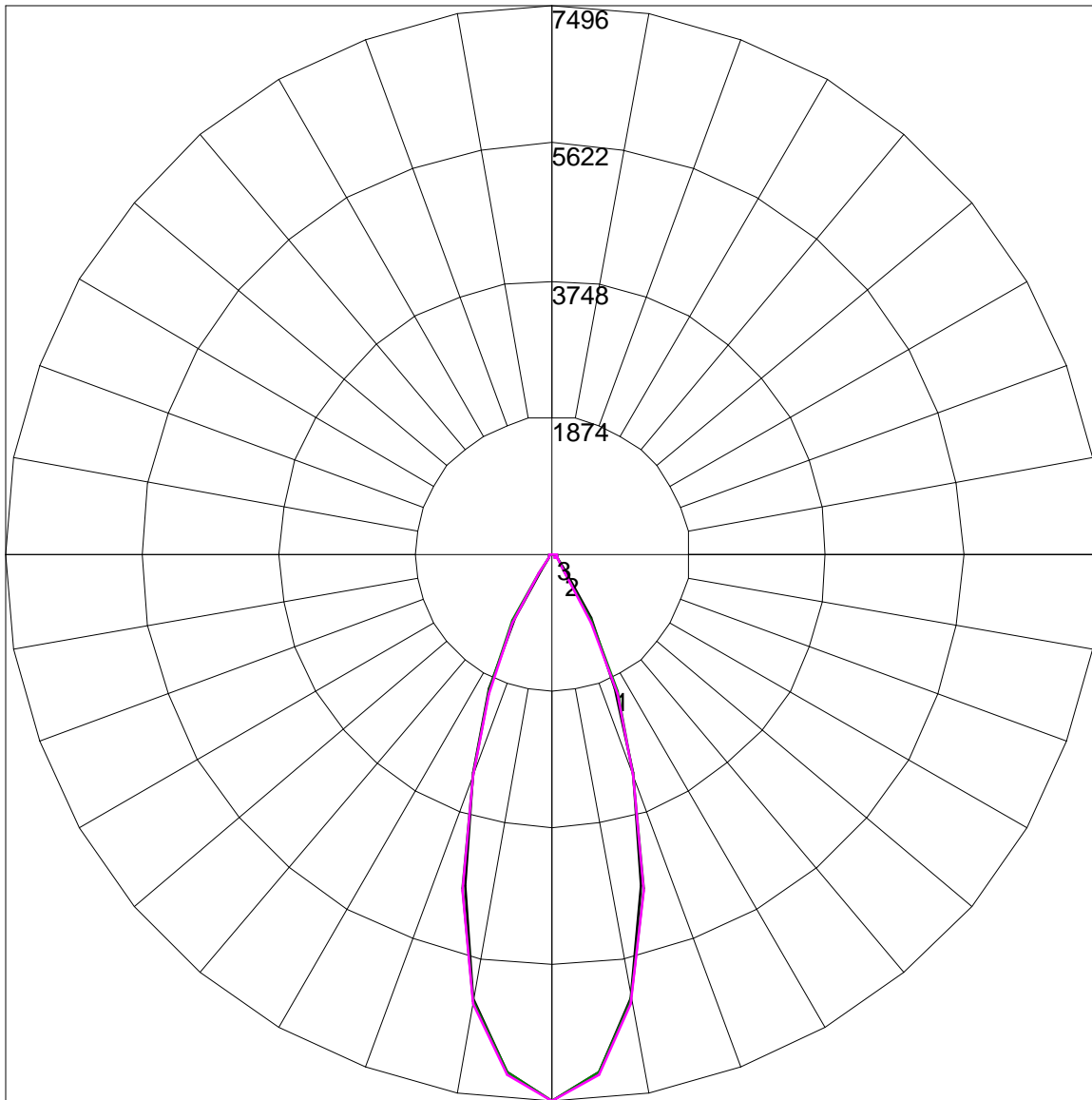
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	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	88	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	74	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	70	65	62	69	65	62	68	64	62	61

POLAR GRAPH



Maximum Candela = 7495.582 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)