

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_2 ~ 4XT-40LXXK-NDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_2_M-40L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/4/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Narrow Beam
[LUMCAT] 4XT-40L-xxK-ND-EX-MW-SO
[OTHER] Matte white finish, solite lens
[OTHER] 20.7 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	3272
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.38
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	15633	15406	15123
55	9385	9120	9969
65	9522	9673	8954
75	7778	7217	7953
85	5215	7064	7482

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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	14255.208	14255.208	14255.208	14255.208	14255.208
5	11741.037	11886.214	11781.530	11934.477	11820.773
10	7286.296	7510.216	7351.845	7581.436	7337.270
15	3913.327	4019.879	3876.738	4105.239	3925.902
20	2189.982	2221.400	2126.177	2273.266	2190.363
25	1344.312	1352.881	1288.972	1383.821	1339.855
30	786.420	808.806	767.271	804.748	785.967
35	385.477	410.214	393.148	394.362	380.398
40	170.997	182.212	177.171	174.384	165.017
45	89.526	82.384	88.225	88.114	86.605
50	58.453	54.933	55.524	58.570	59.056
55	43.594	44.570	42.366	46.959	46.306
60	37.770	37.108	36.758	36.845	38.094
65	32.591	25.888	33.109	32.572	30.647
70	23.905	21.393	24.314	20.779	24.150
75	16.303	14.382	15.127	19.239	16.670
80	10.462	9.665	11.674	10.413	7.894
85	3.681	4.919	4.986	4.197	5.281
90	2.778	0.586	2.114	1.320	1.534

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2188.86	N.A.	66.90
0-30	2830.65	N.A.	86.50
0-40	3100.63	N.A.	94.80
0-60	3219.22	N.A.	98.40
0-80	3266.55	N.A.	99.80
0-90	3272.29	N.A.	100.00
10-90	2270.39	N.A.	69.40
20-40	911.78	N.A.	27.90
20-50	989.34	N.A.	30.20
40-70	148.64	N.A.	4.50
60-80	47.33	N.A.	1.40
70-80	17.28	N.A.	0.50
80-90	5.74	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	3272.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1001.9
10-20	1186.95
20-30	641.79
30-40	269.98
40-50	77.56
50-60	41.03
60-70	30.05
70-80	17.28
80-90	5.74
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

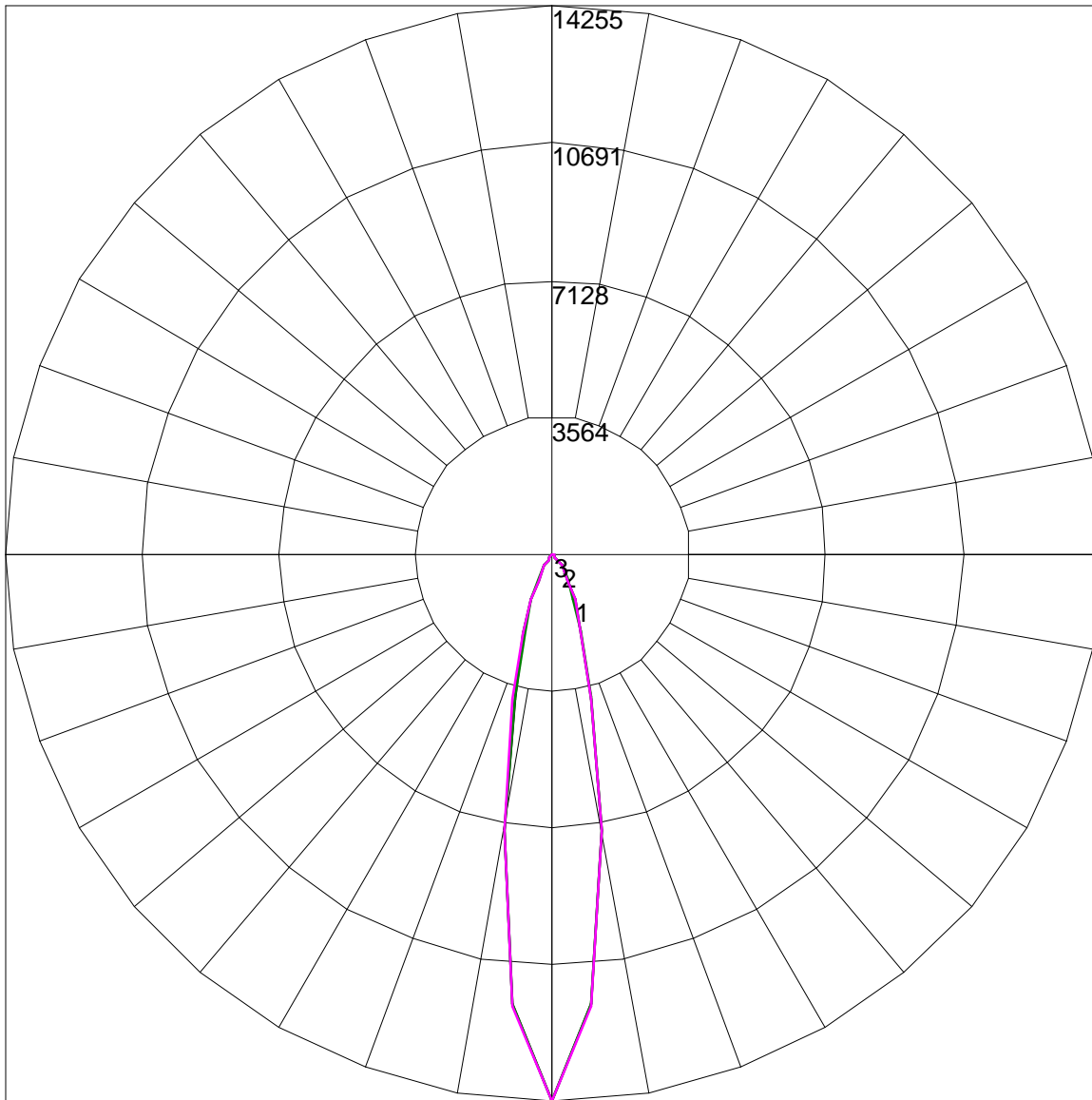
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	95	90	87	93	89	86	91	88	85	89	86	84	83
5	98	91	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	81	78	75	80	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

POLAR GRAPH



Maximum Candela = 14255.208 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)