

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_10 ~ 4XT-40LXXK-XWEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_10_M-40L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Dia Head/Module, Xtra Wide Beam
[LUMCAT] 4XT-40L-xxK-XW-EX-MW-GL
[OTHER] Matte White finish, clear glass lens
[OTHER] 55.8 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	3281
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.84
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	20403	20036	21683
55	8924	9246	9768
65	7964	8004	8668
75	12051	11649	11307
85	14119	16145	13462

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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	4103.483	4103.483	4103.483	4103.483	4103.483
5	4049.878	4050.496	4035.626	4017.813	3994.492
10	3861.178	3870.781	3841.263	3829.025	3792.603
15	3587.563	3611.006	3580.599	3571.642	3531.840
20	3186.262	3232.552	3198.079	3205.985	3158.849
25	2570.252	2645.840	2607.971	2645.805	2582.658
30	1669.789	1749.726	1700.548	1763.589	1713.461
35	738.423	724.237	688.129	752.938	775.636
40	256.594	259.020	247.311	273.752	274.190
45	116.842	117.575	114.740	122.804	124.171
50	62.750	62.100	64.818	66.639	67.242
55	41.456	43.920	42.952	47.876	45.375
60	30.747	33.053	32.883	33.606	34.083
65	27.257	29.907	27.395	29.682	29.666
70	27.256	28.257	27.570	27.490	27.200
75	25.260	27.795	24.418	24.294	23.700
80	21.060	19.780	18.104	16.598	16.458
85	9.966	10.608	11.396	9.230	9.502
90	1.416	1.144	2.707	1.121	1.432

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1378.24	N.A.	42.00
0-30	2538.7	N.A.	77.40
0-40	3066.00	N.A.	93.40
0-60	3215.16	N.A.	98.00
0-80	3269.98	N.A.	99.70
0-90	3280.98	N.A.	100.00
10-90	2902.07	N.A.	88.50
20-40	1687.76	N.A.	51.40
20-50	1795.26	N.A.	54.70
40-70	178.50	N.A.	5.40
60-80	54.82	N.A.	1.70
70-80	25.48	N.A.	0.80
80-90	11.00	N.A.	0.30
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	3280.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	378.91
10-20	999.33
20-30	1160.46
30-40	527.30
40-50	107.50
50-60	41.66
60-70	29.34
70-80	25.48
80-90	11.00
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

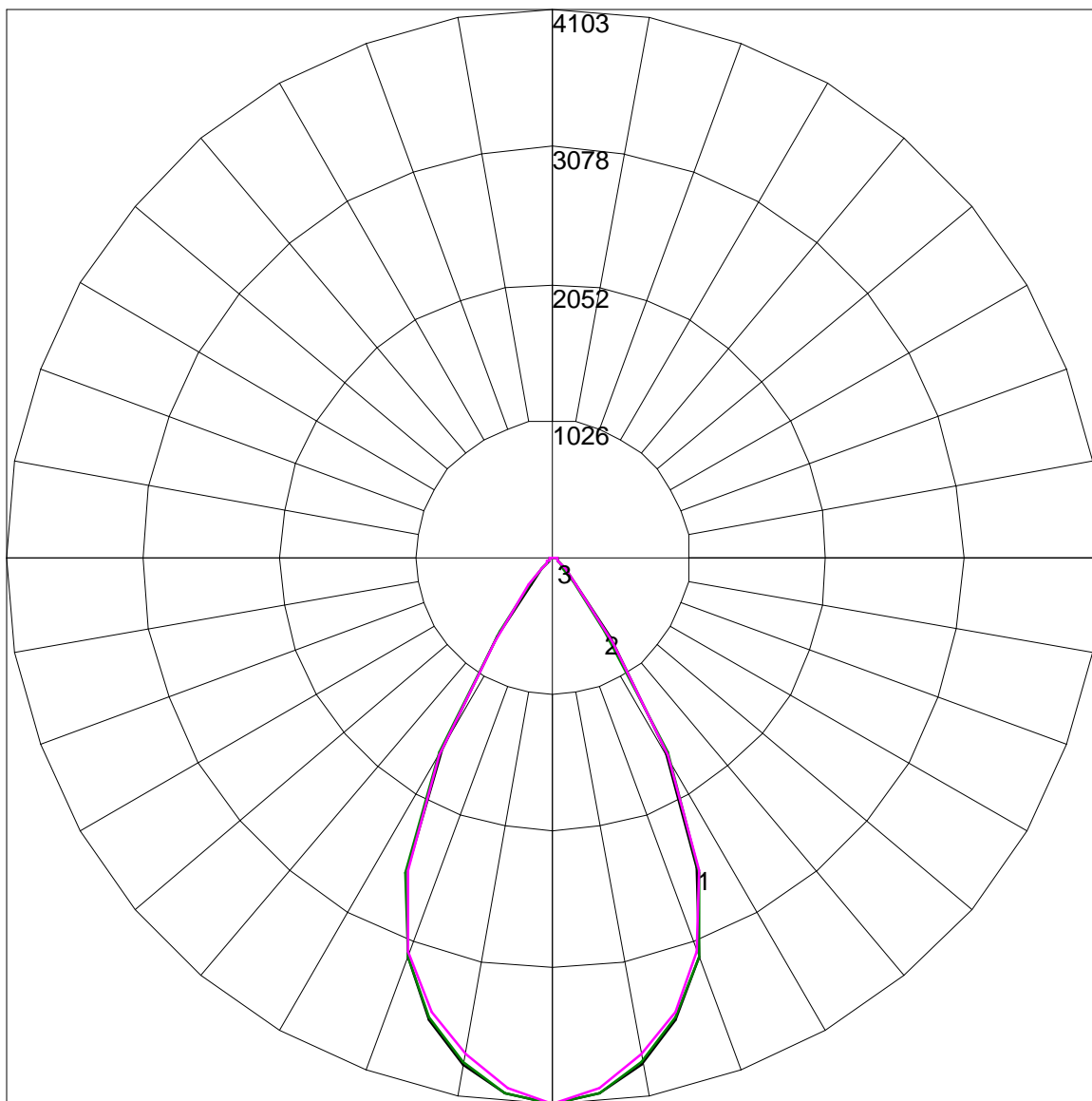
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 4103.483 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)