

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_11 ~ 4XT-30LXXK-XWEX-MWSO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_11
 [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-50L-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: STT4XT, 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2502
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	32.6
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	23562	26928	27766
55	11471	12447	12460
65	8827	9661	10000
75	7522	7411	7975
85	5858	6076	6776

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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	3207.876	3207.876	3207.876	3207.876	3207.876
5	3149.327	3149.232	3143.166	3149.696	3125.708
10	2991.757	3000.554	2986.462	2998.885	2972.562
15	2718.115	2741.307	2716.942	2746.505	2726.089
20	2297.298	2334.198	2309.159	2365.915	2341.528
25	1720.264	1758.822	1748.383	1805.654	1796.813
30	1091.129	1117.828	1125.063	1169.655	1166.725
35	561.721	602.376	620.033	634.953	632.399
40	262.047	298.982	305.122	309.508	311.940
45	134.931	154.043	154.209	155.564	159.004
50	78.275	88.285	87.763	86.444	89.099
55	53.284	58.540	57.817	58.168	57.879
60	39.659	43.612	43.599	42.525	43.833
65	30.211	33.472	33.067	33.300	34.228
70	22.496	24.574	23.288	24.422	25.386
75	15.767	18.299	15.535	16.174	16.716
80	8.584	10.542	9.123	10.320	8.894
85	4.135	4.126	4.289	4.409	4.783
90	1.680	1.264	1.307	1.162	1.660

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1052.35	N.A.	42.10
0-30	1849.77	N.A.	73.90
0-40	2259.77	N.A.	90.30
0-60	2446.49	N.A.	97.80
0-80	2497.03	N.A.	99.80
0-90	2502.39	N.A.	100.00
10-90	2206.9	N.A.	88.20
20-40	1207.42	N.A.	48.30
20-50	1339.61	N.A.	53.50
40-70	219.62	N.A.	8.80
60-80	50.54	N.A.	2.00
70-80	17.64	N.A.	0.70
80-90	5.36	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	2502.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	295.48
10-20	756.86
20-30	797.42
30-40	410.00
40-50	132.19
50-60	54.53
60-70	32.90
70-80	17.64
80-90	5.36
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

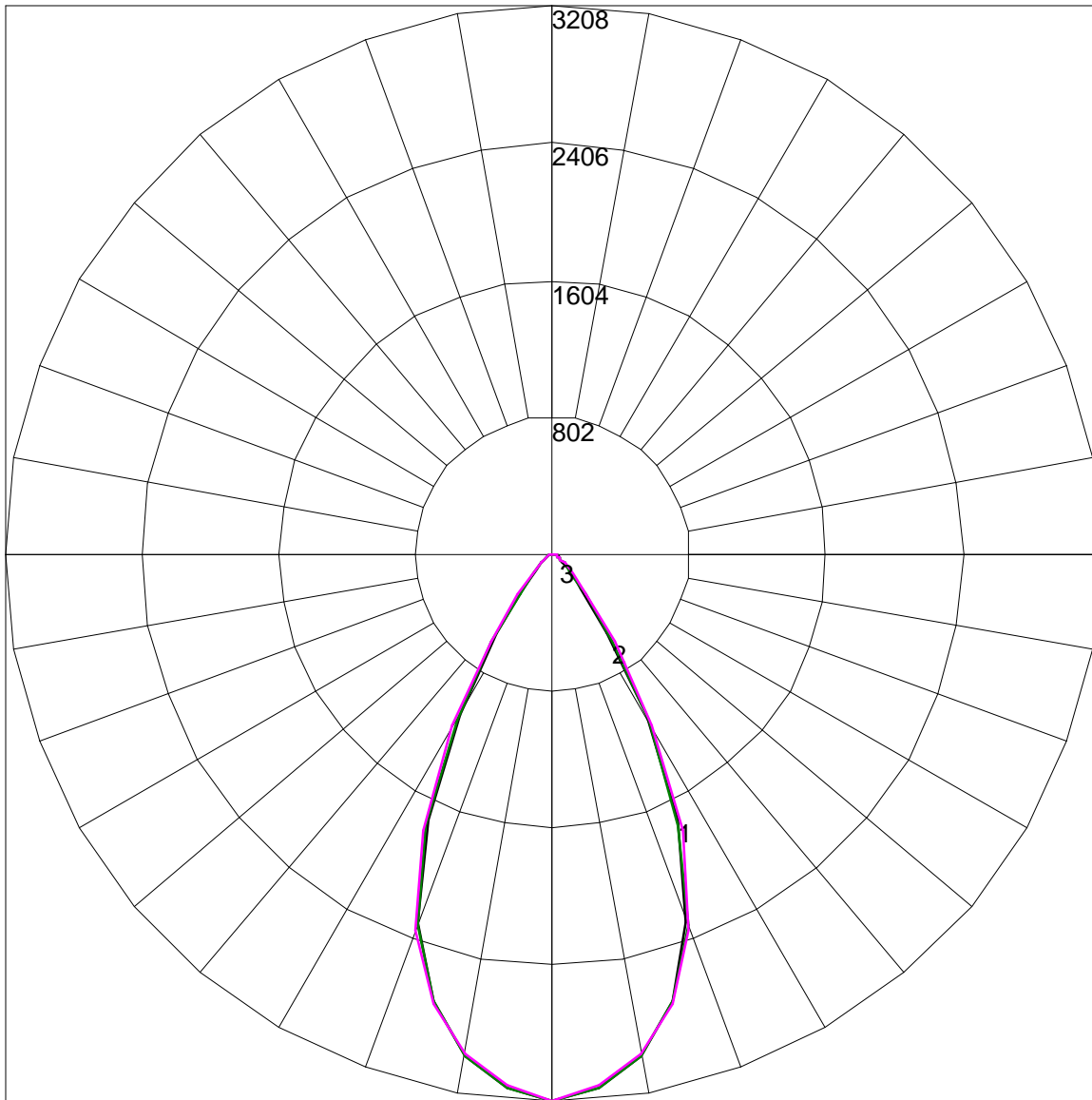
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	81
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 = 3207.876 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)