

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_8 ~ 4XT-13LXXK-WDEX-MWSO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_8
 [TESTLAB] VLS-245-981_M-13L
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/5/2017
 [UPDATE] 8/21/2017
 [LUMINAIRE] Nom. 4" Diam Head/Module, Wide Beam
 [LUMCAT] 4XT-13L-xxK-WD-EX-MW-SO
 [OTHER] Matte White finish, no lens
 [OTHER] 37.3 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: 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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1074
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	13
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.64
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	6423	7323	7234
55	4510	4722	4598
65	4469	4514	4252
75	3928	4579	4299
85	2268	4243	3053

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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	2170.833	2170.833	2170.833	2170.833	2170.833
5	2056.837	2077.552	2073.800	2072.518	2070.972
10	1780.743	1812.790	1801.461	1813.641	1798.470
15	1387.243	1422.660	1407.100	1428.942	1393.072
20	975.364	1002.262	989.499	1010.170	982.821
25	621.963	644.815	631.926	649.600	626.079
30	346.748	361.683	352.792	361.080	344.189
35	159.279	164.853	163.240	169.258	165.500
40	68.276	71.116	73.513	75.738	79.517
45	36.785	39.541	41.938	42.107	41.429
50	26.143	26.770	28.710	27.709	27.560
55	20.950	20.474	21.935	22.501	21.357
60	16.855	17.277	18.484	18.734	17.517
65	15.296	14.685	15.449	15.819	14.554
70	11.498	11.761	12.882	12.929	11.598
75	8.234	10.163	9.599	8.498	9.012
80	4.601	5.806	5.666	5.309	5.245
85	1.601	1.786	2.995	3.061	2.155
90	0.529	0.157	0.741	0.371	0.823

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	578.60	N.A.	53.90
0-30	875.51	N.A.	81.50
0-40	991.90	N.A.	92.30
0-60	1046.6	N.A.	97.40
0-80	1071.16	N.A.	99.70
0-90	1074.1	N.A.	100.00
10-90	884.71	N.A.	82.40
20-40	413.29	N.A.	38.50
20-50	448.22	N.A.	41.70
40-70	69.72	N.A.	6.50
60-80	24.56	N.A.	2.30
70-80	9.54	N.A.	0.90
80-90	2.93	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	1074.1	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	189.39
10-20	389.22
20-30	296.90
30-40	116.39
40-50	34.93
50-60	19.78
60-70	15.02
70-80	9.54
80-90	2.93
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

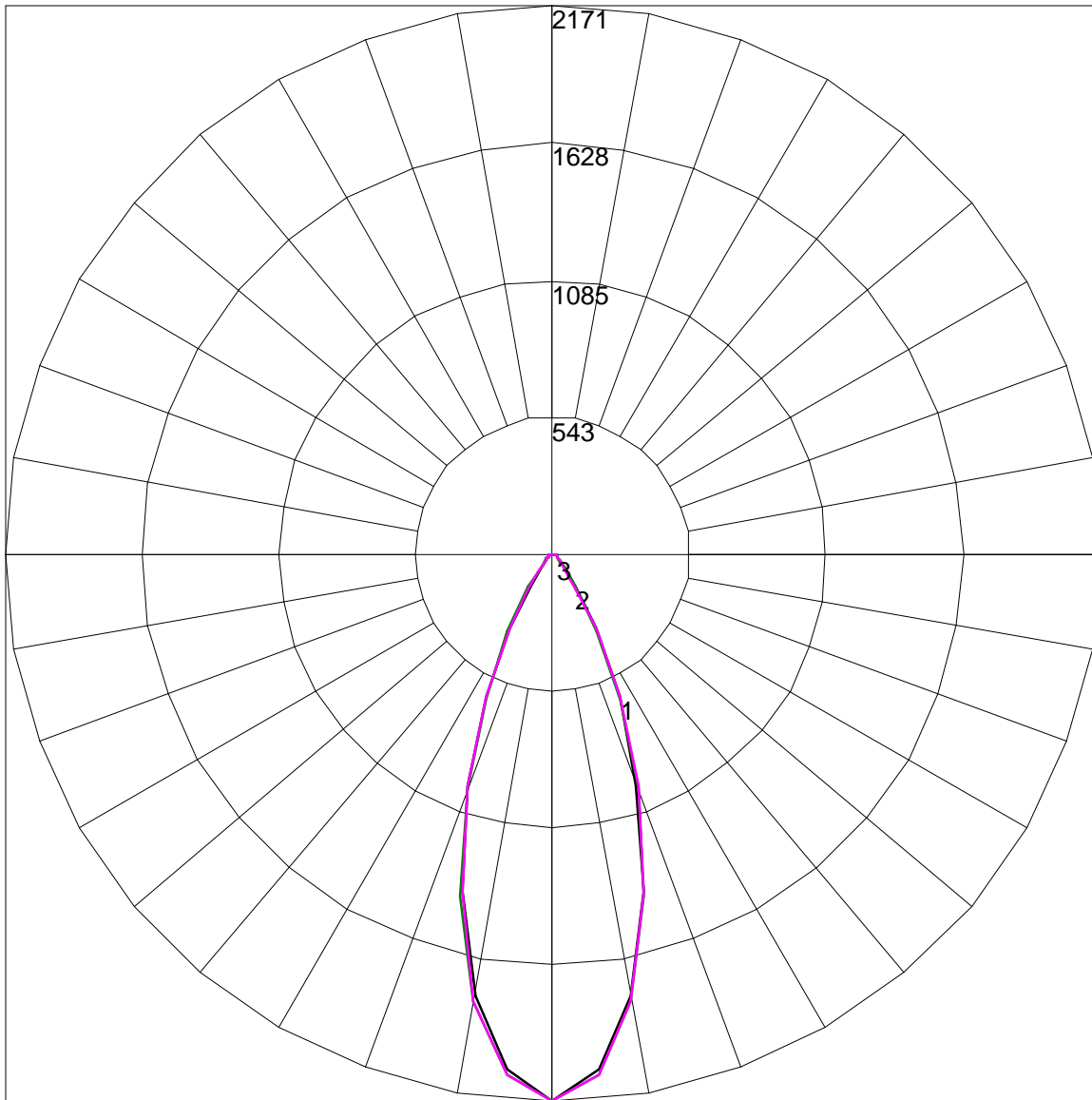
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	111	109	107	105	105	103	102	101	100	98	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	89	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58

POLAR GRAPH



Maximum Candela = 2170.833 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)