

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_10 ~ 4XT-13LXXK-XWEX-MWGL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_10_M-13L
 [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-13L-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: 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	1107
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	13
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_10 ~ 4XT-13LXXK-XWEX-MWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6886	6762	7318
55	3012	3121	3297
65	2688	2701	2925
75	4067	3932	3816
85	4766	5449	4543

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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	1384.886	1384.886	1384.886	1384.886	1384.886
5	1366.794	1367.003	1361.985	1355.973	1348.102
10	1303.110	1306.351	1296.389	1292.259	1279.967
15	1210.768	1218.679	1208.417	1205.394	1191.962
20	1075.333	1090.955	1079.320	1081.989	1066.081
25	867.435	892.945	880.165	892.933	871.622
30	563.537	590.515	573.919	595.194	578.276
35	249.211	244.423	232.237	254.109	261.770
40	86.598	87.417	83.465	92.389	92.536
45	39.433	39.681	38.724	41.445	41.907
50	21.178	20.958	21.876	22.490	22.694
55	13.991	14.822	14.496	16.158	15.313
60	10.377	11.155	11.098	11.342	11.503
65	9.199	10.093	9.245	10.017	10.012
70	9.199	9.536	9.305	9.277	9.180
75	8.525	9.381	8.241	8.199	7.998
80	7.108	6.676	6.110	5.602	5.555
85	3.364	3.580	3.846	3.115	3.207
90	0.478	0.386	0.914	0.378	0.483

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	465.14	N.A.	42.00
0-30	856.79	N.A.	77.40
0-40	1034.75	N.A.	93.40
0-60	1085.09	N.A.	98.00
0-80	1103.59	N.A.	99.70
0-90	1107.3	N.A.	100.00
10-90	979.42	N.A.	88.50
20-40	569.60	N.A.	51.40
20-50	605.88	N.A.	54.70
40-70	60.24	N.A.	5.40
60-80	18.50	N.A.	1.70
70-80	8.60	N.A.	0.80
80-90	3.71	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	1107.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	127.88
10-20	337.26
20-30	391.64
30-40	177.96
40-50	36.28
50-60	14.06
60-70	9.90
70-80	8.60
80-90	3.71
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

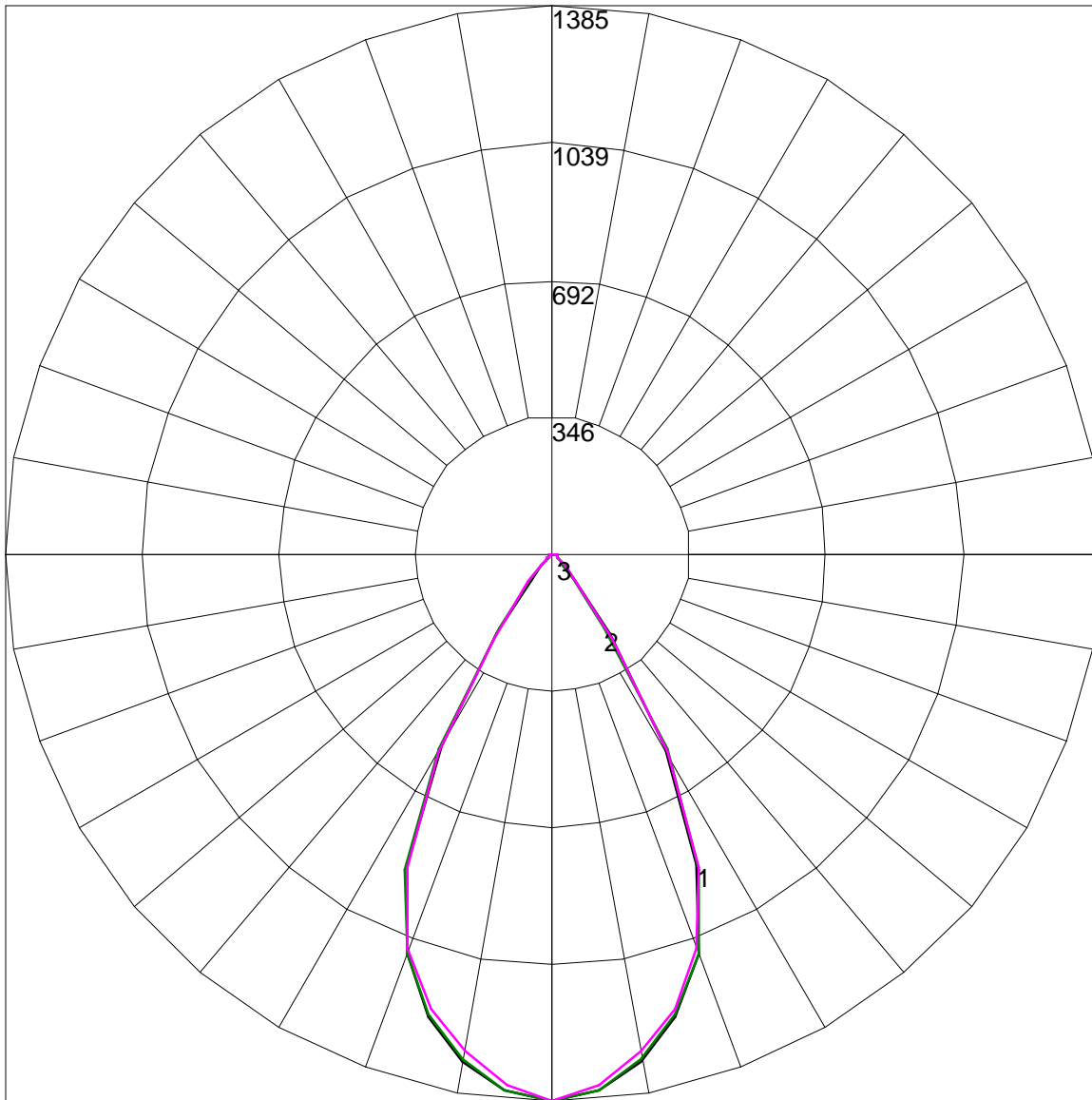
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	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	62	57	54	53

POLAR GRAPH



Maximum Candela = 1384.886 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)