

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_11 ~ 4XT-20LXXK-XWEX-MWSO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_11_M-20L
 [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-20L-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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1669
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	21.7
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	15716	17961	18520
55	7651	8302	8311
65	5888	6444	6670
75	5017	4943	5319
85	3907	4053	4519

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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	2139.653	2139.653	2139.653	2139.653	2139.653
5	2100.601	2100.538	2096.492	2100.847	2084.847
10	1995.502	2001.370	1991.970	2000.256	1982.699
15	1812.983	1828.452	1812.200	1831.919	1818.301
20	1532.298	1556.910	1540.209	1578.065	1561.799
25	1147.416	1173.134	1166.171	1204.371	1198.474
30	727.783	745.591	750.417	780.160	778.206
35	374.668	401.785	413.562	423.514	421.810
40	174.785	199.421	203.516	206.442	208.064
45	89.999	102.747	102.857	103.761	106.056
50	52.209	58.886	58.538	57.658	59.429
55	35.540	39.046	38.564	38.798	38.605
60	26.453	29.089	29.081	28.364	29.237
65	20.151	22.326	22.056	22.211	22.830
70	15.005	16.391	15.533	16.289	16.932
75	10.517	12.205	10.362	10.788	11.150
80	5.726	7.032	6.085	6.883	5.932
85	2.758	2.752	2.861	2.941	3.190
90	1.121	0.843	0.872	0.775	1.107

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	701.91	N.A.	42.10
0-30	1233.79	N.A.	73.90
0-40	1507.27	N.A.	90.30
0-60	1631.81	N.A.	97.80
0-80	1665.52	N.A.	99.80
0-90	1669.09	N.A.	100.00
10-90	1472.01	N.A.	88.20
20-40	805.35	N.A.	48.30
20-50	893.52	N.A.	53.50
40-70	146.49	N.A.	8.80
60-80	33.71	N.A.	2.00
70-80	11.77	N.A.	0.70
80-90	3.57	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	1669.09	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	197.09
10-20	504.83
20-30	531.88
30-40	273.47
40-50	88.17
50-60	36.37
60-70	21.94
70-80	11.77
80-90	3.57
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

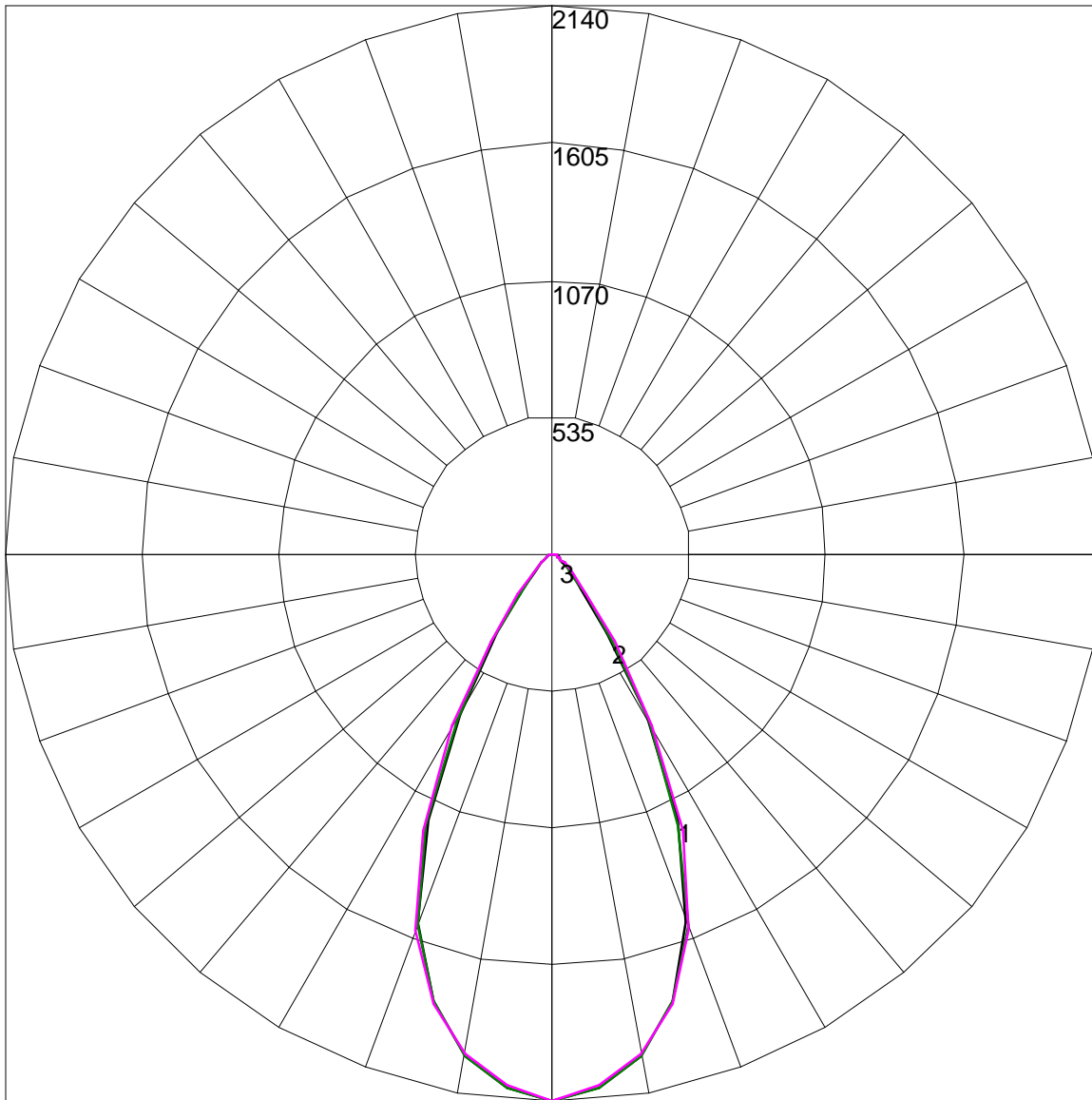
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 2139.653 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)