

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_2 ~ 4XT-10LXXK-NDEX-MWSO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_2_M-10L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 4/4/2017
 [UPDATE] 8/21/2017
 [LUMINAIRE] Nom. 4" Diam Head/Module, Narrow Beam
 [LUMCAT] 4XT-10L-xxK-ND-EX-MW-SO
 [OTHER] Matte white finish, solite lens
 [OTHER] 20.7 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	820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.36
Spacing Criterion (90-270)	0.36
Spacing Criterion (Diagonal)	0.38
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	3920	3863	3792
55	2353	2287	2500
65	2388	2426	2245
75	1950	1810	1994
85	1308	1771	1876

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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	3574.357	3574.357	3574.357	3574.357	3574.357
5	2943.953	2980.355	2954.106	2992.456	2963.946
10	1826.969	1883.115	1843.405	1900.973	1839.751
15	981.229	1007.946	972.055	1029.350	984.382
20	549.117	556.995	533.119	570.000	549.213
25	337.073	339.222	323.198	346.980	335.956
30	197.187	202.800	192.386	201.783	197.074
35	96.655	102.857	98.578	98.883	95.381
40	42.876	45.688	44.424	43.725	41.376
45	22.448	20.657	22.122	22.094	21.715
50	14.657	13.774	13.922	14.686	14.808
55	10.931	11.176	10.623	11.775	11.611
60	9.471	9.305	9.217	9.239	9.552
65	8.172	6.491	8.302	8.167	7.684
70	5.994	5.364	6.097	5.210	6.055
75	4.088	3.606	3.793	4.824	4.180
80	2.623	2.423	2.927	2.611	1.979
85	0.923	1.233	1.250	1.052	1.324
90	0.696	0.147	0.530	0.331	0.385

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	548.83	N.A.	66.90
0-30	709.76	N.A.	86.50
0-40	777.45	N.A.	94.80
0-60	807.19	N.A.	98.40
0-80	819.06	N.A.	99.80
0-90	820.50	N.A.	100.00
10-90	569.28	N.A.	69.40
20-40	228.62	N.A.	27.90
20-50	248.07	N.A.	30.20
40-70	37.27	N.A.	4.50
60-80	11.87	N.A.	1.40
70-80	4.33	N.A.	0.50
80-90	1.44	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	820.50	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	251.22
10-20	297.62
20-30	160.92
30-40	67.70
40-50	19.45
50-60	10.29
60-70	7.53
70-80	4.33
80-90	1.44
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

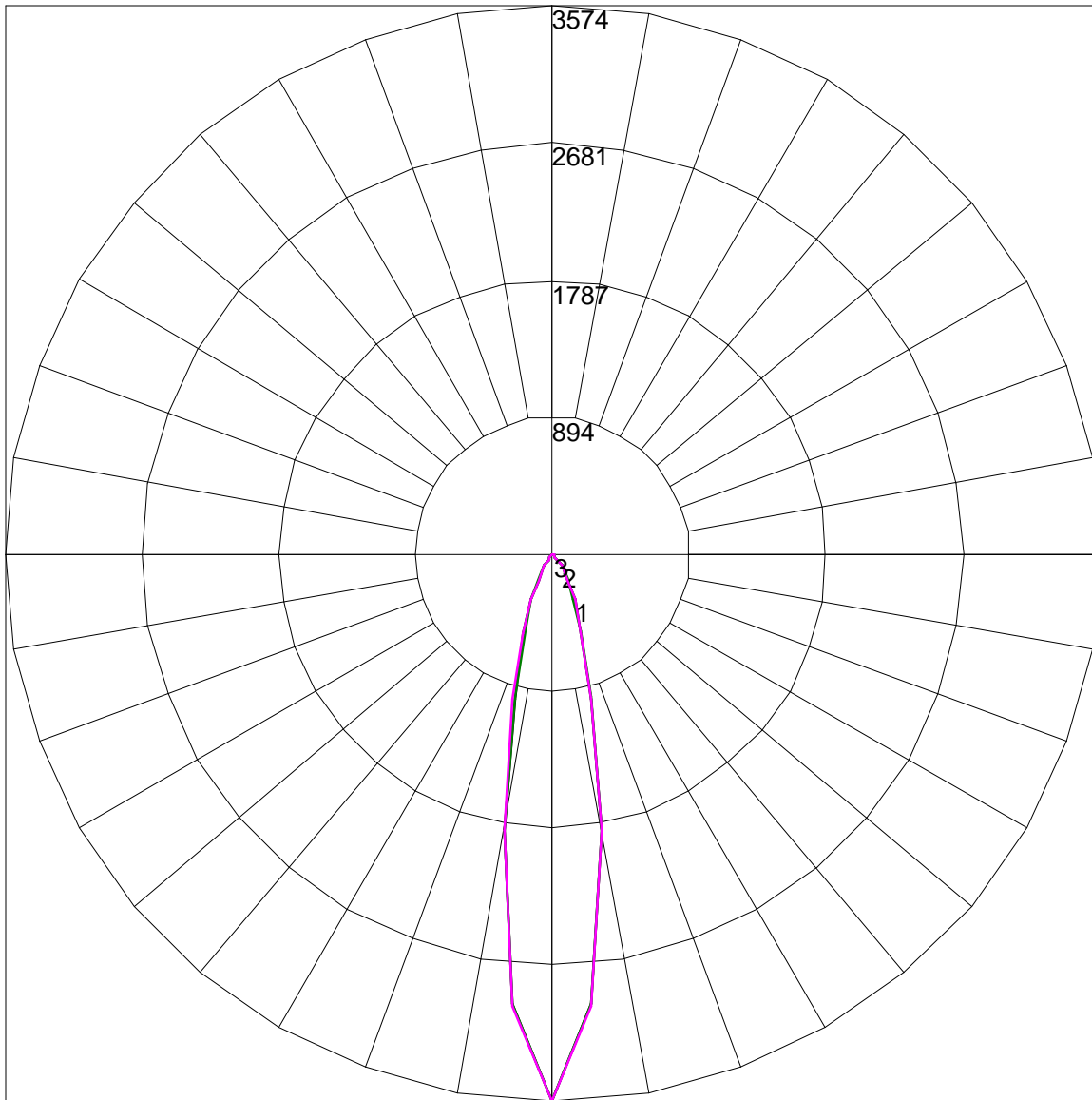
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	99	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	97	93	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	91	87	93	89	86	91	88	85	89	86	84	83
5	98	92	87	83	97	91	86	83	89	85	82	87	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

POLAR GRAPH



Maximum Candela = 3574.357 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)