

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_1 ~ 4XT-10LXXK-NDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_1_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-GL
[OTHER] Matte White finish, clear glass lens
[OTHER] 16 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	873
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	9.1
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.32
Spacing Criterion (Diagonal)	0.34
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	1484	1605	1533
55	1302	1594	1688
65	1780	1851	1968
75	1422	1708	1672
85	2043	2246	2101

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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	4946.910	4946.910	4946.910	4946.910	4946.910
5	3925.364	4005.882	3878.975	4008.501	3843.820
10	2105.240	2173.592	2062.466	2179.228	2055.539
15	941.345	988.858	936.193	978.001	929.298
20	505.462	527.876	509.830	522.770	504.771
25	344.573	362.482	351.879	354.928	346.399
30	203.944	214.510	203.599	219.006	204.273
35	67.442	72.009	67.354	78.606	67.040
40	13.570	17.942	15.965	15.472	13.520
45	8.499	10.628	9.194	9.467	8.777
50	6.608	7.251	7.042	7.675	7.751
55	6.047	6.701	7.403	7.064	7.839
60	6.607	6.642	7.752	7.430	7.870
65	6.093	6.758	6.334	6.289	6.737
70	4.037	4.841	4.355	4.075	4.471
75	2.980	3.883	3.581	3.096	3.504
80	3.181	3.372	3.011	3.530	3.683
85	1.442	1.969	1.585	1.341	1.483
90	0.438	0.190	0.382	0.219	0.332

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	627.93	N.A.	71.90
0-30	790.57	N.A.	90.60
0-40	846.56	N.A.	97.00
0-60	861.03	N.A.	98.60
0-80	870.97	N.A.	99.80
0-90	872.82	N.A.	100.00
10-90	549.44	N.A.	62.90
20-40	218.62	N.A.	25.00
20-50	226.68	N.A.	26.00
40-70	20.55	N.A.	2.40
60-80	9.94	N.A.	1.10
70-80	3.86	N.A.	0.40
80-90	1.85	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	872.82	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	323.38
10-20	304.55
20-30	162.63
30-40	55.99
40-50	8.06
50-60	6.42
60-70	6.08
70-80	3.86
80-90	1.85
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

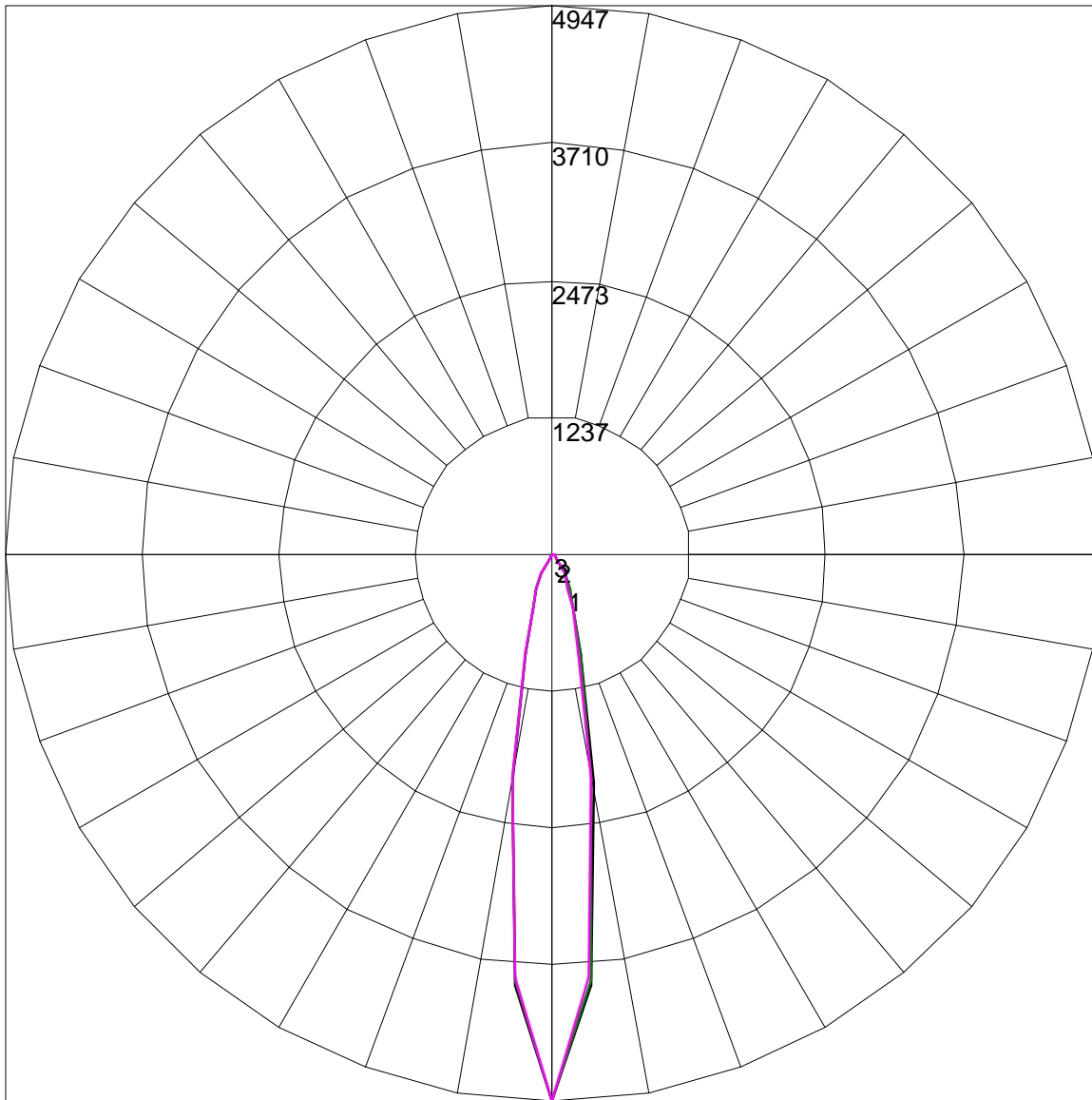
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	109	112	110	108	107	106	105	104	103	101	100	99	98	98	96
2	111	107	104	101	108	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	100	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	93	90	102	96	93	90	94	91	89	93	90	88	91	89	87	85
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	84	81	79	83	81	78	77
8	91	84	80	77	90	84	80	77	83	79	77	82	79	76	81	78	76	75
9	89	82	78	75	88	81	77	75	81	77	74	80	77	74	79	76	74	73
10	86	79	75	73	86	79	75	72	78	75	72	78	74	72	77	74	72	71

POLAR GRAPH



Maximum Candela = 4946.91 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)