

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_1 ~ 4XT-30LXXK-NDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_1
[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-30L-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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	83
Total Luminaire Watts	32.6
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	4613	4990	4764
55	4047	4954	5246
65	5534	5753	6119
75	4419	5311	5196
85	6351	6982	6531

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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	15377.400	15377.400	15377.400	15377.400	15377.400
5	12201.940	12452.230	12057.740	12460.370	11948.460
10	6544.109	6756.580	6411.148	6774.099	6389.614
15	2926.159	3073.850	2910.142	3040.104	2888.710
20	1571.223	1640.895	1584.800	1625.022	1569.075
25	1071.101	1126.771	1093.811	1103.288	1076.776
30	633.958	666.802	632.886	680.778	634.979
35	209.643	223.840	209.370	244.346	208.392
40	42.182	55.771	49.626	48.095	42.027
45	26.418	33.036	28.578	29.427	27.283
50	20.540	22.540	21.890	23.859	24.094
55	18.797	20.829	23.011	21.958	24.367
60	20.538	20.646	24.098	23.095	24.463
65	18.941	21.006	19.689	19.550	20.942
70	12.548	15.048	13.536	12.666	13.898
75	9.263	12.070	11.132	9.624	10.891
80	9.889	10.481	9.360	10.972	11.448
85	4.483	6.120	4.928	4.169	4.610
90	1.361	0.590	1.186	0.681	1.031

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1951.93	N.A.	71.90
0-30	2457.46	N.A.	90.60
0-40	2631.51	N.A.	97.00
0-60	2676.49	N.A.	98.60
0-80	2707.39	N.A.	99.80
0-90	2713.15	N.A.	100.00
10-90	1707.93	N.A.	63.00
20-40	679.58	N.A.	25.00
20-50	704.62	N.A.	26.00
40-70	63.88	N.A.	2.40
60-80	30.90	N.A.	1.10
70-80	12.01	N.A.	0.40
80-90	5.76	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	2713.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1005.22
10-20	946.70
20-30	505.54
30-40	174.04
40-50	25.04
50-60	19.94
60-70	18.89
70-80	12.01
80-90	5.76
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

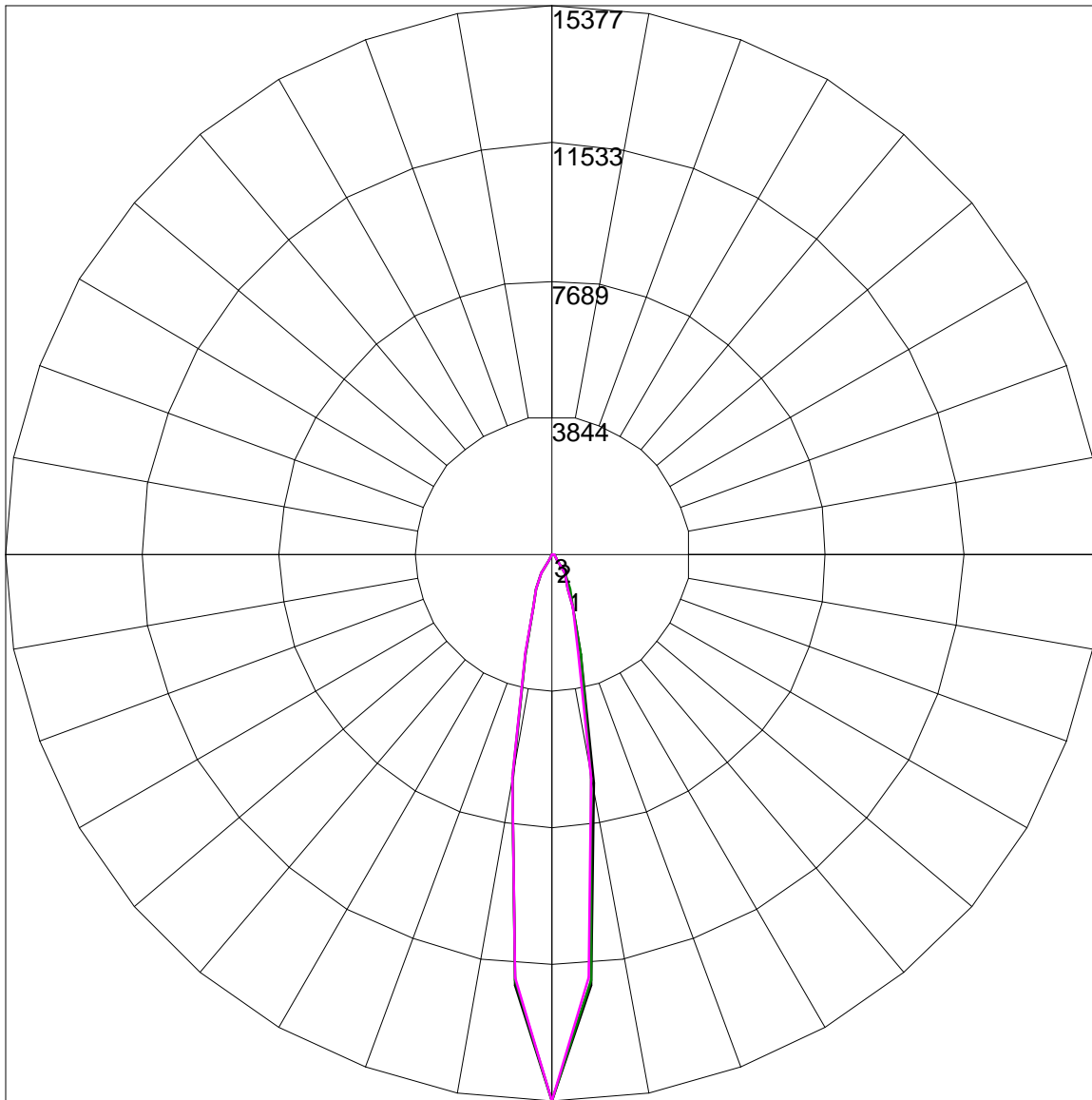
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	100	99	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	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	86	83	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	83	80	86	82	79	85	81	79	84	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 = 15377.4 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)