

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_5 ~ 4XT-30LXXK-MDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_5
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Medium Beam
[LUMCAT] 4XT-30L-xxK-MD-EX-MW-SO
[OTHER] Matte White finish, no lens
[OTHER] 28.3 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	2458
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.52
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	14582	14373	14288
55	10469	9913	10713
65	10630	10257	10474
75	8296	9517	9392
85	6778	7626	9044

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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	6782.449	6782.449	6782.449	6782.449	6782.449
5	6125.488	6213.437	6138.236	6189.442	6157.032
10	4657.234	4799.743	4724.600	4819.596	4724.686
15	3124.918	3244.602	3182.172	3275.020	3168.237
20	1989.151	2059.997	2007.326	2069.052	2005.025
25	1234.948	1268.756	1221.239	1279.102	1231.176
30	694.622	726.527	688.075	713.685	687.581
35	331.866	360.811	340.946	339.822	322.697
40	148.946	159.599	155.990	155.501	144.244
45	83.507	81.333	82.310	84.412	81.825
50	59.001	56.527	56.199	62.006	59.369
55	48.631	47.815	46.050	50.634	49.766
60	42.624	43.611	40.460	42.860	42.658
65	36.384	36.238	35.105	33.564	35.849
70	28.799	27.515	25.852	26.855	27.381
75	17.390	19.697	19.949	21.550	19.687
80	10.804	11.218	11.417	12.365	12.185
85	4.784	4.791	5.383	4.780	6.384
90	2.019	0.535	1.666	0.992	2.436

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Zone	Lumens	%Lamp	%Fixt
0-20	1450.95	N.A.	59.00
0-30	2042.83	N.A.	83.10
0-40	2279.87	N.A.	92.70
0-60	2396.53	N.A.	97.50
0-80	2451.93	N.A.	99.70
0-90	2458.26	N.A.	100.00
10-90	1912.43	N.A.	77.80
20-40	828.92	N.A.	33.70
20-50	901.35	N.A.	36.70
40-70	151.32	N.A.	6.20
60-80	55.39	N.A.	2.30
70-80	20.73	N.A.	0.80
80-90	6.33	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	2458.26	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	545.83
10-20	905.12
20-30	591.88
30-40	237.05
40-50	72.42
50-60	44.24
60-70	34.66
70-80	20.73
80-90	6.33
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

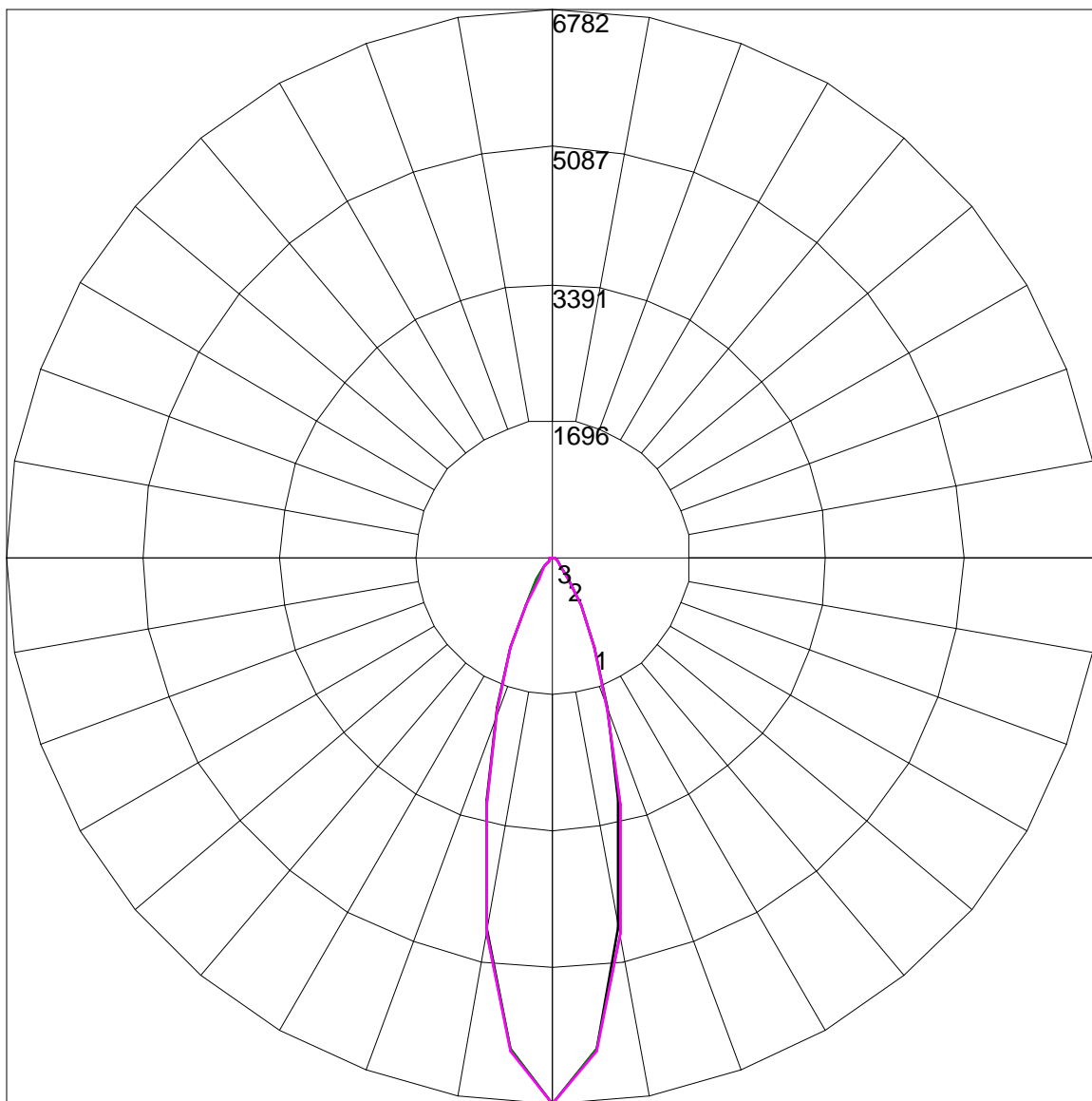
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	98	107	103	99	97	100	97	94	97	94	92	94	92	91	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	84	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	74	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	69	65	62	61

POLAR GRAPH



Maximum Candela = 6782.449 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)