

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_4 ~ 4XT-30LXXK-MDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_4
[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-GL
[OTHER] Matte White finish, clear glass lens
[OTHER] 26 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	2516
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	32.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.46
Spacing Criterion (Diagonal)	0.48
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	7859	7736	6850
55	9834	9225	8848
65	8825	8109	8392
75	10451	9021	7967
85	12728	12238	10787

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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	8005.542	8005.542	8005.542	8005.542	8005.542
5	7143.292	7217.243	7173.024	7296.526	7231.916
10	5174.385	5333.125	5268.834	5400.326	5324.901
15	3227.564	3373.205	3320.252	3420.067	3357.711
20	1968.527	2041.588	2016.119	2060.225	2029.351
25	1256.263	1323.872	1274.118	1322.189	1273.872
30	715.372	756.447	712.375	762.630	721.486
35	233.289	220.850	236.094	213.511	239.658
40	53.363	59.936	56.692	47.664	52.826
45	45.003	46.569	44.303	39.928	39.229
50	46.135	43.970	43.902	42.239	41.162
55	45.680	46.269	42.854	42.984	41.102
60	39.945	38.698	36.721	41.547	37.417
65	30.206	30.191	27.753	30.614	28.722
70	22.553	22.585	24.008	23.831	18.805
75	21.906	19.717	18.909	18.663	16.700
80	18.040	18.011	15.123	15.819	12.275
85	8.984	9.903	8.638	9.298	7.614
90	1.524	1.645	1.101	0.998	1.724

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1587.72	N.A.	63.10
0-30	2193.88	N.A.	87.20
0-40	2382.76	N.A.	94.70
0-60	2456.46	N.A.	97.60
0-80	2506.7	N.A.	99.60
0-90	2516.35	N.A.	100.00
10-90	1886.06	N.A.	75.00
20-40	795.04	N.A.	31.60
20-50	830.62	N.A.	33.00
40-70	103.57	N.A.	4.10
60-80	50.24	N.A.	2.00
70-80	20.37	N.A.	0.80
80-90	9.65	N.A.	0.40
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	2516.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	630.29
10-20	957.42
20-30	606.16
30-40	188.88
40-50	35.58
50-60	38.12
60-70	29.87
70-80	20.37
80-90	9.65
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

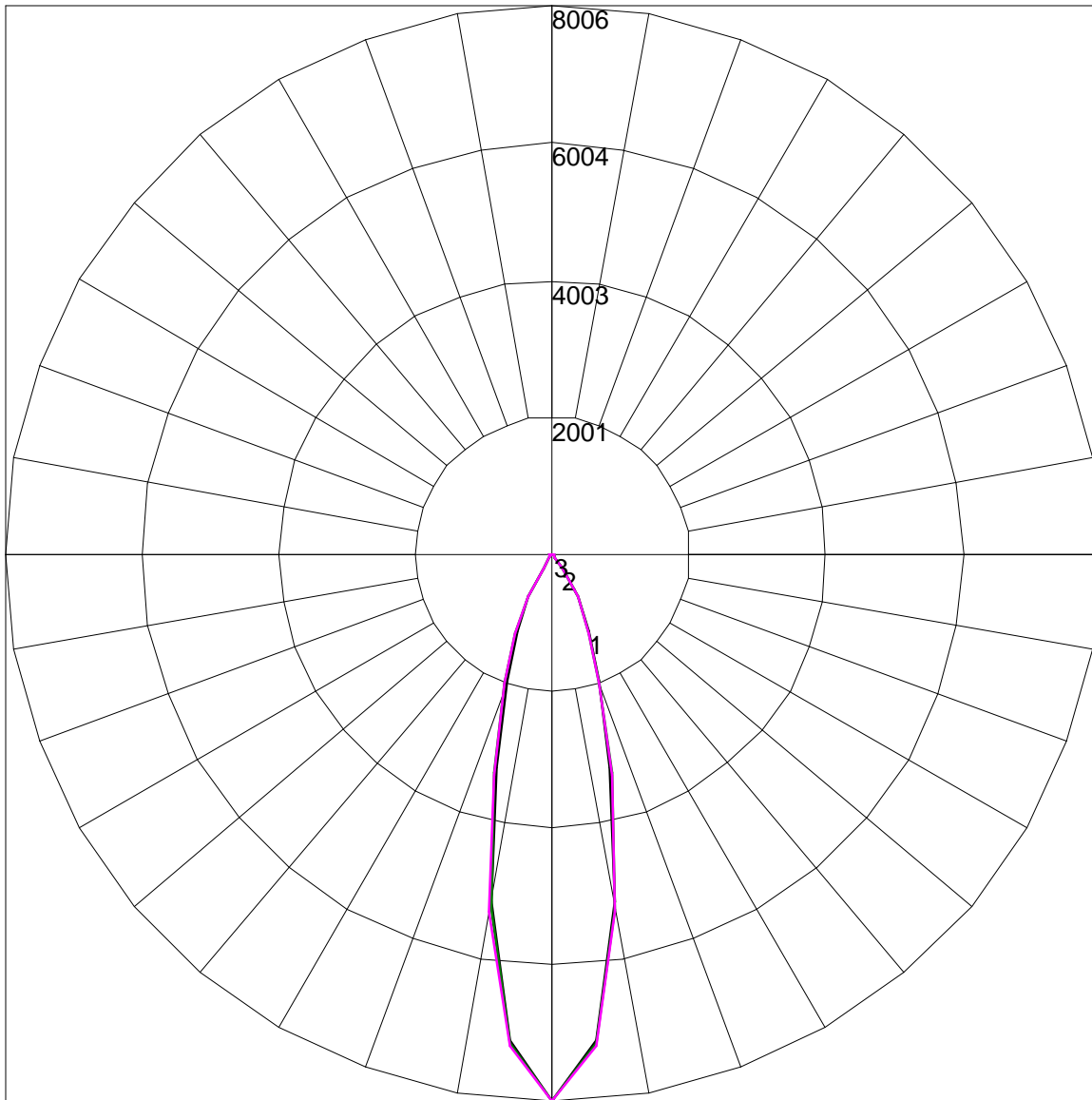
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	102	99	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	92	103	98	94	91	96	92	90	93	90	88	91	89	87	85
4	101	95	90	86	99	93	89	86	91	88	85	89	86	84	88	85	83	81
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	84	82	79	78
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	81	78	76	75
7	90	83	78	74	89	82	77	74	81	77	74	80	76	73	79	75	73	72
8	87	79	74	71	86	79	74	71	78	74	71	77	73	70	76	73	70	69
9	84	76	71	68	83	76	71	68	75	71	68	74	70	68	73	70	67	66
10	81	74	69	66	81	73	69	66	72	68	65	72	68	65	71	68	65	64

POLAR GRAPH



Maximum Candela = 8005.542 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)