

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_3 ~ 4XT-30LXXK-MDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_3
[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-NL
[OTHER] Matte white finish, no 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	2710
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)	0.44
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	5269	4887	4875
55	7999	8576	7373
65	9957	10481	10538
75	9439	10637	9597
85	13108	13781	11823

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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	8862.868	8862.868	8862.868	8862.868	8862.868
5	7870.128	8032.400	8018.046	8225.723	8041.189
10	5725.577	5970.357	5807.432	6032.290	5845.866
15	3584.519	3745.682	3622.088	3725.354	3654.834
20	2154.323	2237.333	2176.625	2217.112	2181.706
25	1352.068	1389.244	1389.621	1413.175	1387.181
30	714.766	786.581	720.007	775.965	717.828
35	216.819	212.481	209.191	201.901	208.441
40	39.988	34.088	42.849	49.306	43.834
45	30.174	25.958	27.986	31.250	27.917
50	30.996	29.895	31.214	29.586	29.782
55	37.156	35.471	39.839	35.322	34.251
60	40.715	39.301	41.720	43.037	38.347
65	34.078	35.285	35.873	38.038	36.067
70	24.475	24.735	21.912	27.092	24.722
75	19.785	22.053	22.296	23.407	20.116
80	19.834	18.063	19.444	19.163	19.680
85	9.252	11.641	9.727	10.440	8.345
90	3.235	1.385	1.732	0.668	1.272

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1754.1	N.A.	64.70
0-30	2401.48	N.A.	88.60
0-40	2584.56	N.A.	95.40
0-60	2641.97	N.A.	97.50
0-80	2699.17	N.A.	99.60
0-90	2710.31	N.A.	100.00
10-90	2008.75	N.A.	74.10
20-40	830.46	N.A.	30.60
20-50	855.42	N.A.	31.60
40-70	91.47	N.A.	3.40
60-80	57.20	N.A.	2.10
70-80	23.14	N.A.	0.90
80-90	11.14	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	2710.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	701.57
10-20	1052.54
20-30	647.38
30-40	183.08
40-50	24.96
50-60	32.45
60-70	34.07
70-80	23.14
80-90	11.14
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

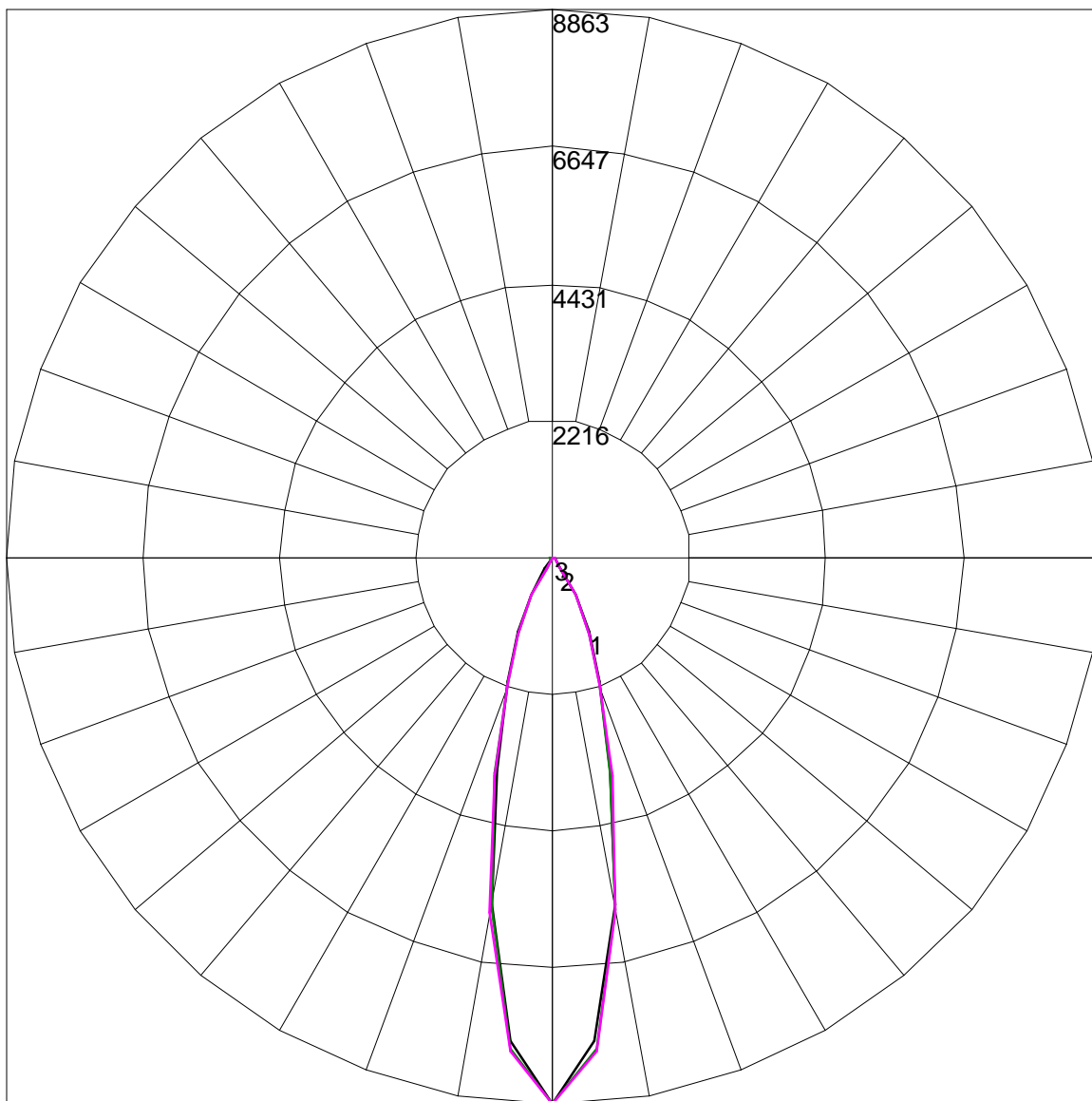
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	99	98	97	97	95
2	110	105	102	99	107	104	100	98	100	98	96	97	95	94	95	93	92	90
3	105	100	96	92	103	98	95	91	96	93	90	94	91	89	91	89	87	86
4	101	95	90	87	100	94	90	86	92	88	85	90	87	84	88	86	83	82
5	98	91	86	82	96	90	85	82	88	84	81	86	83	81	85	82	80	79
6	94	87	82	78	93	86	81	78	85	81	78	83	80	77	82	79	77	75
7	91	83	78	75	90	83	78	75	81	77	74	80	77	74	79	76	74	72
8	88	80	75	72	87	80	75	72	79	74	71	78	74	71	77	73	71	70
9	85	77	72	69	84	77	72	69	76	72	69	75	71	69	74	71	68	67
10	82	74	70	67	81	74	70	67	73	69	66	73	69	66	72	69	66	65

POLAR GRAPH



Maximum Candela = 8862.868 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)