

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_8 ~ 4XT-20LXXK-WDEX-MWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_8_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/5/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom. 4" Diam Head/Module, Wide Beam
[LUMCAT] 4XT-20L-xxK-WD-EX-MW-SO
[OTHER] Matte White finish, no lens
[OTHER] 37.3 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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.62
Spacing Criterion (90-270)	0.62
Spacing Criterion (Diagonal)	0.64
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	9895	11281	11144
55	6947	7274	7082
65	6884	6953	6550
75	6051	7055	6623
85	3494	6537	4704

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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	3343.984	3343.984	3343.984	3343.984	3343.984
5	3168.383	3200.294	3194.514	3192.539	3190.158
10	2743.085	2792.450	2774.998	2793.761	2770.392
15	2136.931	2191.487	2167.519	2201.165	2145.910
20	1502.466	1543.900	1524.240	1556.082	1513.953
25	958.082	993.284	973.428	1000.654	964.423
30	534.136	557.142	543.446	556.213	530.194
35	245.355	253.942	251.457	260.728	254.938
40	105.174	109.548	113.240	116.668	122.489
45	56.664	60.909	64.602	64.862	63.819
50	40.271	41.237	44.225	42.684	42.454
55	32.272	31.538	33.789	34.661	32.898
60	25.964	26.614	28.474	28.858	26.984
65	23.562	22.621	23.797	24.368	22.419
70	17.712	18.116	19.843	19.916	17.866
75	12.684	15.654	14.787	13.091	13.883
80	7.087	8.943	8.728	8.178	8.080
85	2.466	2.751	4.614	4.716	3.320
90	0.815	0.242	1.142	0.571	1.268

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	891.29	N.A.	53.90
0-30	1348.64	N.A.	81.50
0-40	1527.94	N.A.	92.30
0-60	1612.21	N.A.	97.40
0-80	1650.04	N.A.	99.70
0-90	1654.55	N.A.	100.00
10-90	1362.82	N.A.	82.40
20-40	636.65	N.A.	38.50
20-50	690.45	N.A.	41.70
40-70	107.40	N.A.	6.50
60-80	37.83	N.A.	2.30
70-80	14.69	N.A.	0.90
80-90	4.52	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	1654.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	291.74
10-20	599.55
20-30	457.35
30-40	179.29
40-50	53.81
50-60	30.46
60-70	23.14
70-80	14.69
80-90	4.52
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

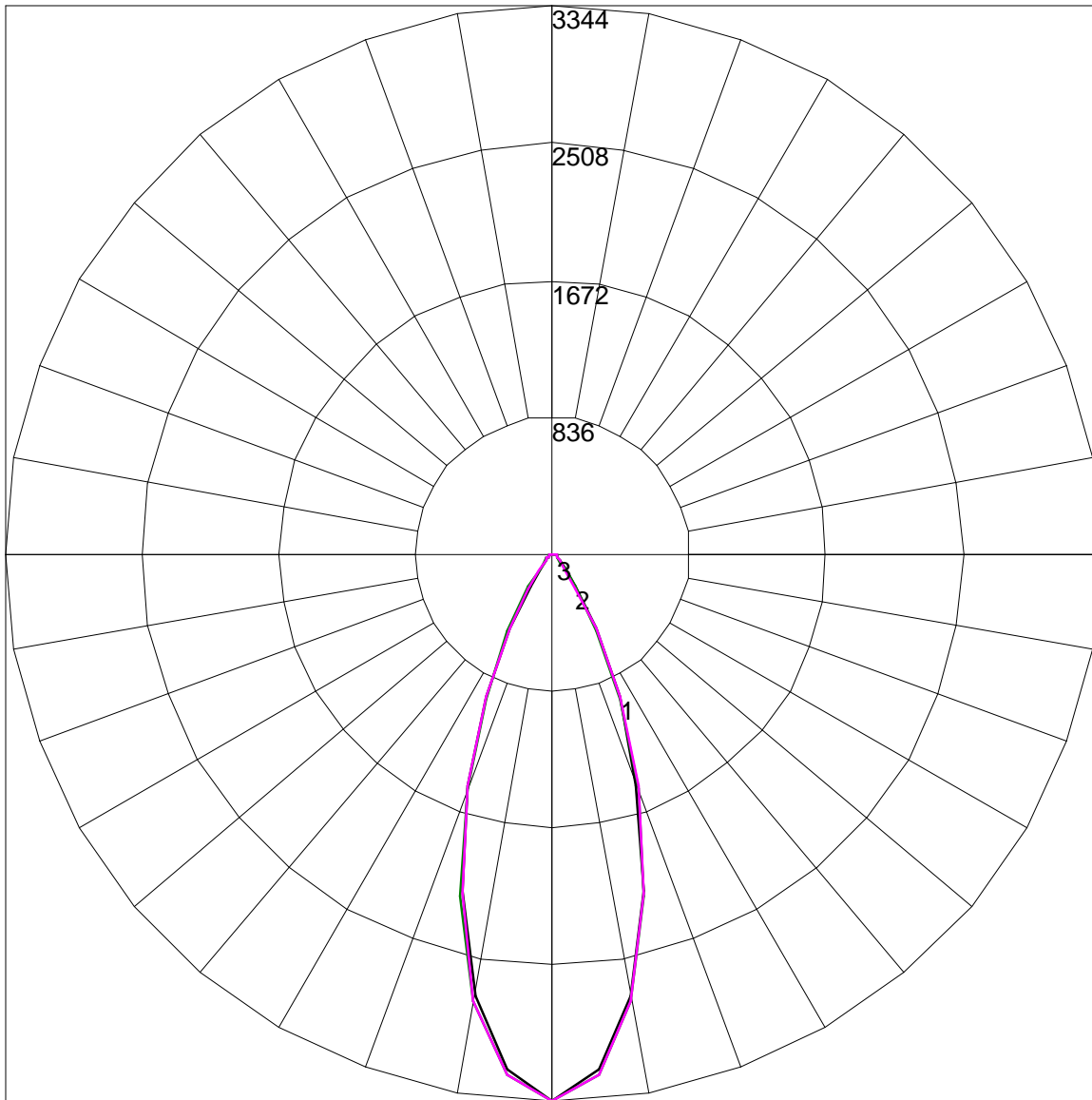
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	97	106	102	99	96	99	96	94	96	94	92	93	91	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	83	89	85	82	87	83	81	85	82	80	78
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	72	68	75	71	68	67
8	84	75	70	66	82	74	69	66	73	69	65	72	68	65	71	68	65	64
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	59	66	62	59	58

POLAR GRAPH



Maximum Candela = 3343.984 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)