

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_7 ~ 4XT-20LXXK-WDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_7_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-GL
[OTHER] Matte White finish, clear glass lens
[OTHER] 36.3 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	1683
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.62
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_7 ~ 4XT-20LXXK-WDEX-MWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6965	6892	6426
55	6548	6580	6738
65	5106	4637	4684
75	6222	5248	4844
85	9566	8917	6171

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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	3648.163	3648.163	3648.163	3648.163	3648.163
5	3467.708	3481.549	3475.416	3489.647	3472.625
10	3023.954	3054.010	3044.171	3069.585	3033.595
15	2304.816	2365.848	2318.083	2380.448	2327.900
20	1545.873	1603.746	1554.672	1615.058	1573.183
25	998.704	1041.657	1009.807	1047.690	1019.828
30	545.607	582.715	547.935	594.172	562.060
35	167.569	196.093	163.538	196.364	177.336
40	47.006	53.114	44.478	47.586	43.861
45	39.887	40.922	39.469	38.875	36.800
50	35.739	36.529	36.976	36.544	36.740
55	30.417	31.330	30.565	30.983	31.299
60	24.005	24.005	23.083	23.199	22.445
65	17.477	18.857	15.872	17.928	16.033
70	15.303	15.372	12.991	12.805	11.839
75	13.041	14.007	11.001	11.538	10.154
80	12.594	11.654	10.184	9.799	7.969
85	6.752	6.748	6.294	6.528	4.356
90	1.096	0.498	1.183	0.313	0.586

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	962.49	N.A.	57.20
0-30	1438.34	N.A.	85.50
0-40	1587.38	N.A.	94.30
0-60	1646.08	N.A.	97.80
0-80	1676.59	N.A.	99.60
0-90	1683.06	N.A.	100.00
10-90	1364.31	N.A.	81.10
20-40	624.89	N.A.	37.10
20-50	656.36	N.A.	39.00
40-70	76.46	N.A.	4.50
60-80	30.51	N.A.	1.80
70-80	12.75	N.A.	0.80
80-90	6.47	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	1683.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	318.74
10-20	643.75
20-30	475.85
30-40	149.04
40-50	31.47
50-60	27.23
60-70	17.76
70-80	12.75
80-90	6.47
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

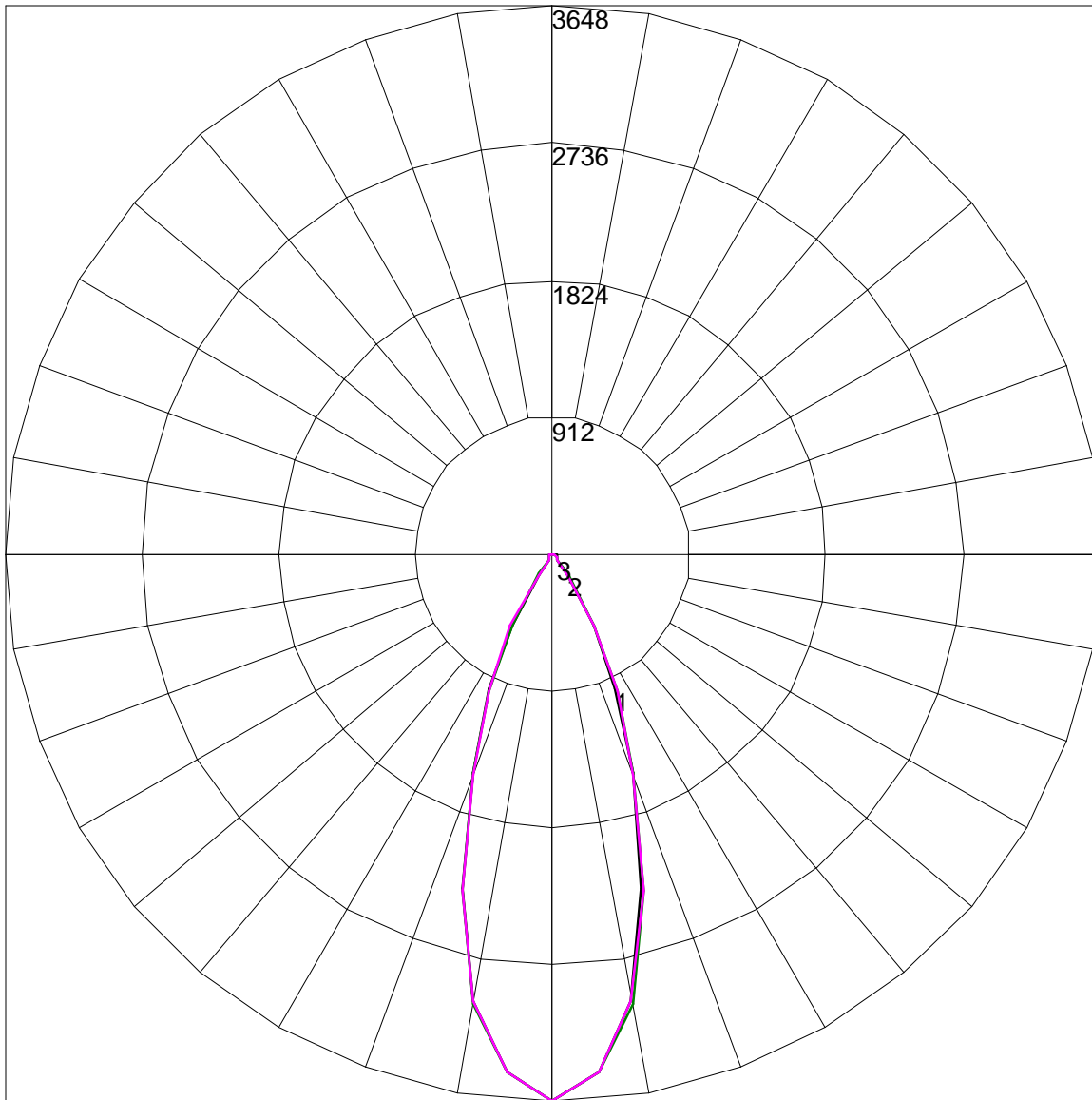
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	96	100	97	94	97	94	92	94	92	90	89
3	104	98	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	79	94	88	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	91	83	78	75	82	78	74	81	77	74	79	76	73	72
7	88	80	75	71	87	80	75	71	78	74	71	77	73	70	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	68	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	65	72	68	65	71	67	64	70	67	64	63
10	79	70	65	62	78	70	65	62	69	65	62	69	65	62	68	64	62	60

POLAR GRAPH



Maximum Candela = 3648.163 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)