

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_4 ~ 4XT-20LXXK-MDEX-MWGL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_4_M-20L
 [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-20L-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, scaled from 30L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	21.7
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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551_4 ~ 4XT-20LXXK-MDEX-MWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5242	5160	4569
55	6559	6153	5902
65	5886	5408	5597
75	6971	6017	5314
85	8489	8163	7196

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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	5339.696	5339.696	5339.696	5339.696	5339.696
5	4764.576	4813.901	4784.407	4866.783	4823.688
10	3451.315	3557.194	3514.312	3602.017	3551.709
15	2152.785	2249.928	2214.608	2281.185	2239.593
20	1313.008	1361.739	1344.751	1374.170	1353.577
25	837.927	883.023	849.837	881.900	849.673
30	477.153	504.550	475.154	508.674	481.231
35	155.604	147.307	157.475	142.412	159.852
40	35.593	39.977	37.814	31.792	35.235
45	30.017	31.062	29.550	26.632	26.166
50	30.772	29.328	29.283	28.173	27.455
55	30.469	30.861	28.584	28.670	27.415
60	26.643	25.812	24.493	27.712	24.957
65	20.147	20.137	18.511	20.420	19.158
70	15.043	15.064	16.013	15.895	12.543
75	14.611	13.151	12.612	12.448	11.139
80	12.033	12.013	10.087	10.551	8.187
85	5.992	6.605	5.762	6.202	5.079
90	1.017	1.097	0.734	0.666	1.150

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1059.01	N.A.	63.10
0-30	1463.32	N.A.	87.20
0-40	1589.3	N.A.	94.70
0-60	1638.46	N.A.	97.60
0-80	1671.97	N.A.	99.60
0-90	1678.41	N.A.	100.00
10-90	1258.00	N.A.	75.00
20-40	530.29	N.A.	31.60
20-50	554.03	N.A.	33.00
40-70	69.08	N.A.	4.10
60-80	33.51	N.A.	2.00
70-80	13.59	N.A.	0.80
80-90	6.44	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	1678.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	420.41
10-20	638.60
20-30	404.31
30-40	125.98
40-50	23.73
50-60	25.43
60-70	19.92
70-80	13.59
80-90	6.44
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

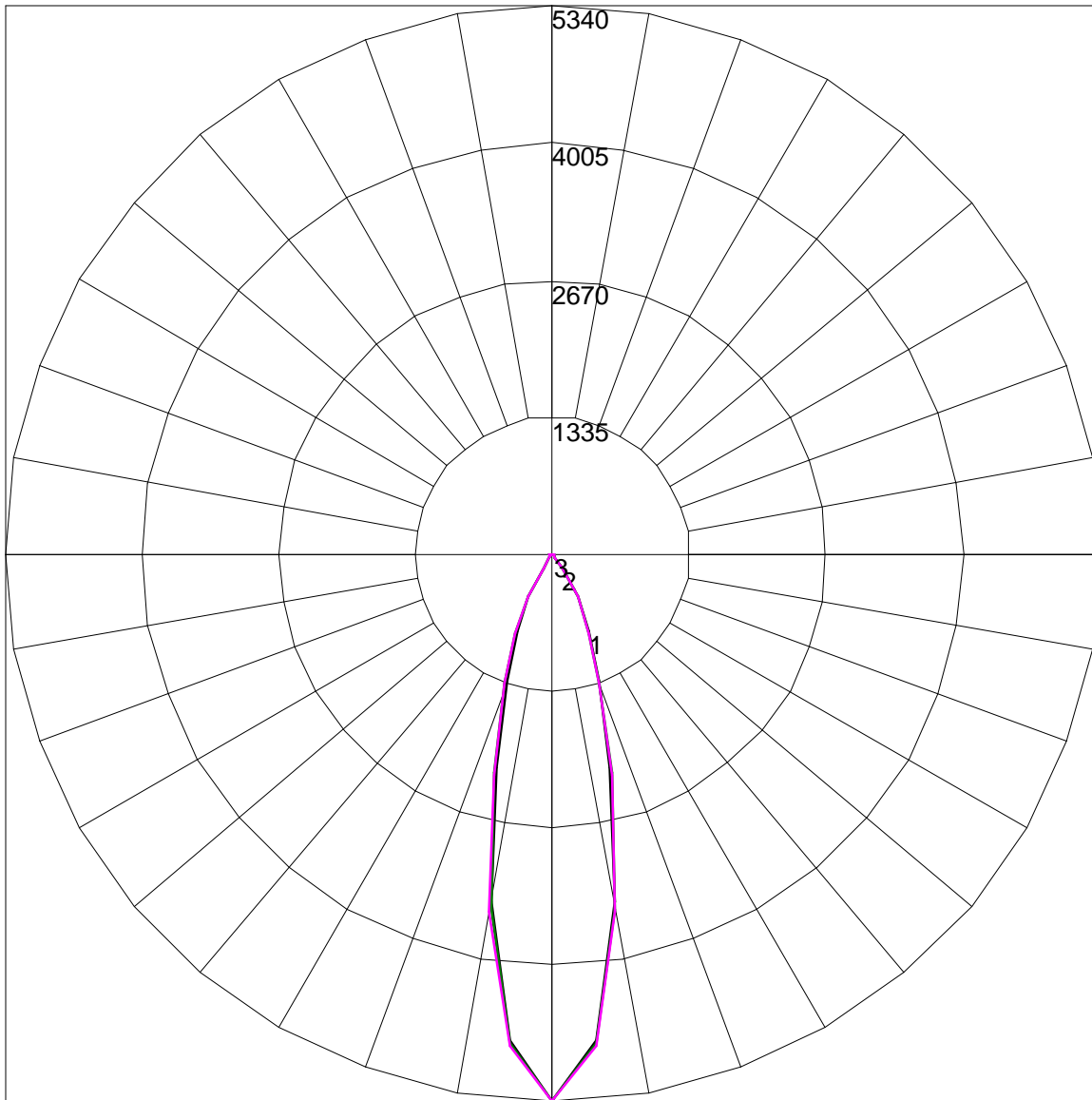
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 5339.696 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)