

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00551_5 ~ 4XT-20LXXK-MDEX-MWSO.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00551_5_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-SO
 [OTHER] Matte White finish, no lens
 [OTHER] 28.3 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	1640
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)	0.48
Spacing Criterion (90-270)	0.48
Spacing Criterion (Diagonal)	0.52
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	9726	9587	9530
55	6983	6612	7146
65	7090	6841	6986
75	5534	6348	6265
85	4521	5086	6032

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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	4523.893	4523.893	4523.893	4523.893	4523.893
5	4085.700	4144.362	4094.203	4128.358	4106.740
10	3106.375	3201.429	3151.308	3214.671	3151.366
15	2084.320	2164.150	2122.509	2184.438	2113.214
20	1326.764	1374.018	1338.886	1380.058	1337.352
25	823.710	846.260	814.566	853.161	821.194
30	463.313	484.594	458.946	476.028	458.617
35	221.355	240.661	227.411	226.661	215.239
40	99.347	106.453	104.045	103.719	96.211
45	55.699	54.249	54.901	56.303	54.577
50	39.354	37.704	37.485	41.358	39.599
55	32.437	31.893	30.715	33.773	33.194
60	28.430	29.089	26.987	28.588	28.453
65	24.268	24.171	23.415	22.387	23.911
70	19.209	18.353	17.243	17.912	18.263
75	11.599	13.138	13.306	14.374	13.131
80	7.206	7.482	7.615	8.247	8.127
85	3.191	3.196	3.590	3.188	4.258
90	1.347	0.357	1.111	0.662	1.625

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	967.78	N.A.	59.00
0-30	1362.56	N.A.	83.10
0-40	1520.68	N.A.	92.70
0-60	1598.49	N.A.	97.50
0-80	1635.43	N.A.	99.70
0-90	1639.66	N.A.	100.00
10-90	1275.59	N.A.	77.80
20-40	552.89	N.A.	33.70
20-50	601.20	N.A.	36.70
40-70	100.93	N.A.	6.20
60-80	36.95	N.A.	2.30
70-80	13.83	N.A.	0.80
80-90	4.22	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	1639.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	364.07
10-20	603.72
20-30	394.78
30-40	158.11
40-50	48.31
50-60	29.51
60-70	23.12
70-80	13.83
80-90	4.22
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

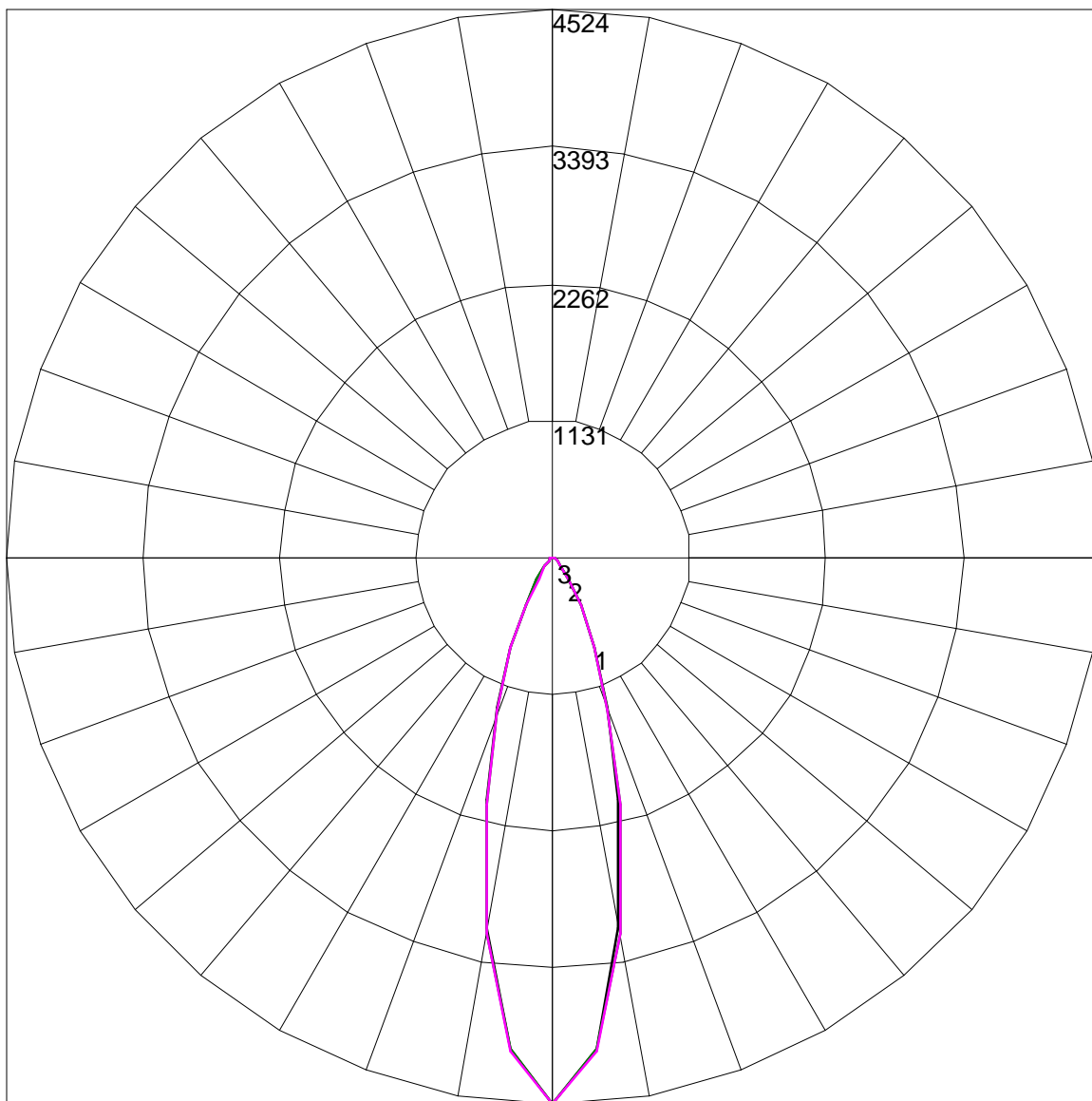
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	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	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	89	83	80	94	88	83	79	86	82	79	84	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	89	81	75	72	87	80	75	72	79	74	71	78	74	71	77	73	70	69
8	85	77	72	68	84	77	72	68	76	71	68	75	71	68	74	70	67	66
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	64
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	69	65	62	61

POLAR GRAPH



Maximum Candela = 4523.893 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)