

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

IESNA:LM-63-2002
[TEST] SP-00551_M-20L
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUEDATE] 4/6/2017
[UPDATE] 8/21/2017
[LUMINAIRE] Nom.4" Diam Head/Module, Narrow Beam
[LUMCAT] 4XT-20L-xxK-ND-EX-MW-NL
[OTHER] Matte White finish, no lens
[OTHER] 17.7 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	1834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	21.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.34
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	2031	1956	2284
55	2210	2082	1992
65	4819	4344	4598
75	3524	3486	3944
85	5670	6929	6789

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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	10206.187	10206.187	10206.187	10206.187	10206.187
5	7986.184	8342.002	8428.659	8716.623	8527.462
10	4255.271	4615.637	4512.026	4919.822	4745.314
15	1886.978	2054.084	1956.469	2146.549	2091.398
20	1012.775	1065.326	1019.066	1084.202	1070.256
25	699.104	724.229	699.012	725.507	721.490
30	413.403	443.957	432.638	456.388	426.475
35	130.064	151.475	133.917	156.295	135.085
40	18.981	22.538	15.339	21.121	22.241
45	11.629	11.436	11.204	13.468	13.078
50	9.443	10.337	9.015	10.545	9.590
55	10.268	10.592	9.673	9.228	9.255
60	13.199	14.002	12.538	12.162	12.418
65	16.493	14.854	14.869	14.835	15.739
70	11.837	12.980	11.816	13.379	12.256
75	7.386	8.929	7.306	9.254	8.267
80	9.029	9.261	7.454	10.162	7.833
85	4.002	4.682	4.891	3.795	4.792
90	1.356	0.399	0.878	0.158	1.425

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	1340.98	N.A.	73.10
0-30	1672.25	N.A.	91.20
0-40	1785.19	N.A.	97.30
0-60	1805.08	N.A.	98.40
0-80	1828.97	N.A.	99.70
0-90	1833.98	N.A.	100.00
10-90	1143.46	N.A.	62.30
20-40	444.21	N.A.	24.20
20-50	454.58	N.A.	24.80
40-70	33.73	N.A.	1.80
60-80	23.89	N.A.	1.30
70-80	10.05	N.A.	0.50
80-90	5.01	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	1833.98	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	690.52
10-20	650.45
20-30	331.27
30-40	112.95
40-50	10.37
50-60	9.52
60-70	13.84
70-80	10.05
80-90	5.01
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

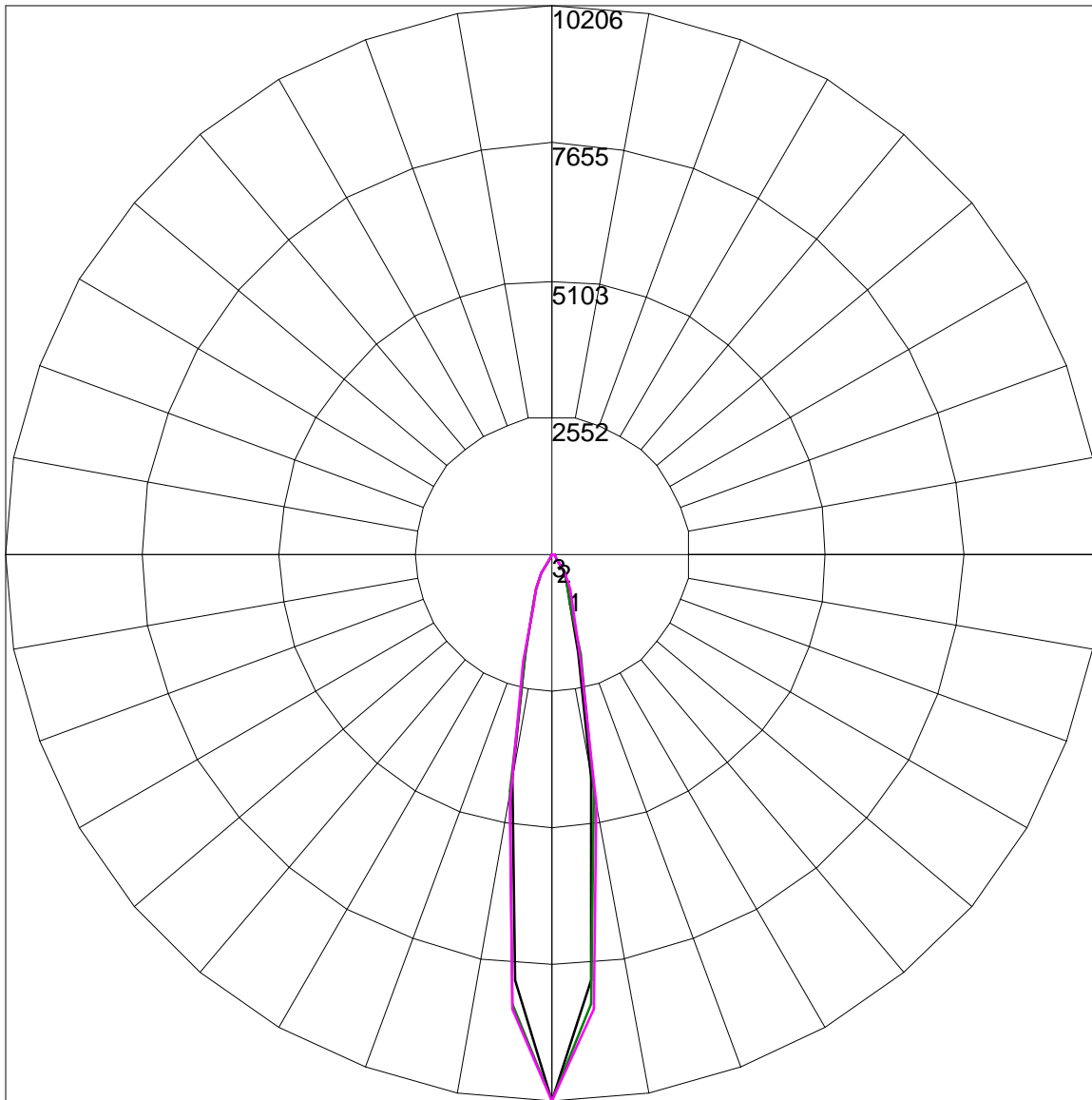
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	109	112	110	108	107	106	105	104	103	102	100	99	98	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	96	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	93	91	94	92	90	89
4	103	98	94	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	85	90	87	85	89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	82	87	84	82	86	83	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	77	83	80	77	83	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

POLAR GRAPH



Maximum Candela = 10206.187 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)