

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00551 ~ 4XT-40LXXK-NDEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00551_M-40L
[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-40L-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: 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	3528
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	37.9
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	3906	3763	4393
55	4252	4005	3832
65	9269	8357	8845
75	6778	6705	7587
85	10906	13329	13058

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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	19631.991	19631.991	19631.991	19631.991	19631.991
5	15361.731	16046.160	16212.848	16766.757	16402.898
10	8185.176	8878.354	8679.055	9463.466	9127.793
15	3629.674	3951.109	3763.343	4128.969	4022.885
20	1948.112	2049.195	1960.212	2085.504	2058.679
25	1344.753	1393.081	1344.576	1395.541	1387.813
30	795.196	853.967	832.195	877.880	820.341
35	250.182	291.368	257.594	300.639	259.841
40	36.512	43.353	29.505	40.627	42.782
45	22.369	21.997	21.552	25.906	25.156
50	18.163	19.884	17.341	20.284	18.447
55	19.751	20.374	18.606	17.750	17.802
60	25.389	26.934	24.117	23.394	23.887
65	31.725	28.572	28.602	28.536	30.275
70	22.768	24.967	22.728	25.736	23.575
75	14.208	17.176	14.054	17.800	15.903
80	17.367	17.813	14.339	19.547	15.066
85	7.698	9.005	9.408	7.300	9.217
90	2.608	0.767	1.688	0.304	2.742

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	2579.42	N.A.	73.10
0-30	3216.63	N.A.	91.20
0-40	3433.88	N.A.	97.30
0-60	3472.14	N.A.	98.40
0-80	3518.09	N.A.	99.70
0-90	3527.74	N.A.	100.00
10-90	2199.49	N.A.	62.30
20-40	854.46	N.A.	24.20
20-50	874.41	N.A.	24.80
40-70	64.87	N.A.	1.80
60-80	45.95	N.A.	1.30
70-80	19.33	N.A.	0.50
80-90	9.65	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	3527.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1328.25
10-20	1251.17
20-30	637.21
30-40	217.26
40-50	19.94
50-60	18.31
60-70	26.62
70-80	19.33
80-90	9.65
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

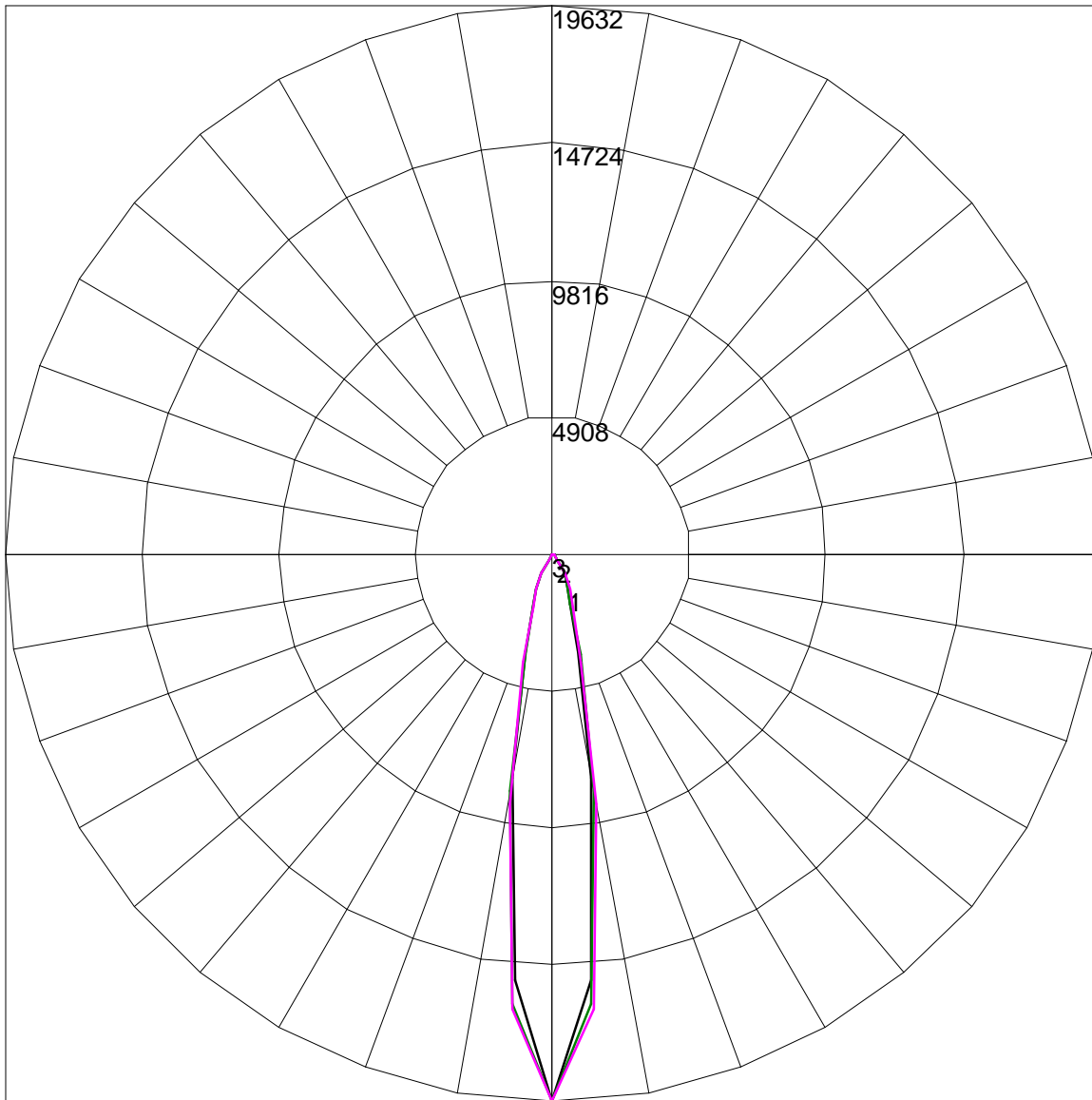
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 19631.991 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)