

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_7 ~ 4XT-40LXXK-WDEX-MWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_7\_M-40L  
[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-40L-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: 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	3237
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	37.9
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

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**LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13398	13257	12361
55	12596	12656	12961
65	9822	8920	9010
75	11967	10095	9318
85	18401	17154	11869

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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>
<b>0</b>	7017.381	7017.381	7017.381	7017.381	7017.381
<b>5</b>	6670.268	6696.893	6685.096	6712.470	6679.726
<b>10</b>	5816.691	5874.504	5855.579	5904.463	5835.237
<b>15</b>	4433.403	4550.798	4458.921	4578.882	4477.805
<b>20</b>	2973.545	3084.867	2990.472	3106.627	3026.077
<b>25</b>	1921.045	2003.668	1942.403	2015.271	1961.677
<b>30</b>	1049.495	1120.875	1053.974	1142.912	1081.144
<b>35</b>	322.326	377.192	314.572	377.714	341.112
<b>40</b>	90.418	102.167	85.554	91.534	84.369
<b>45</b>	76.723	78.715	75.920	74.777	70.786
<b>50</b>	68.746	70.265	71.126	70.293	70.670
<b>55</b>	58.509	60.265	58.792	59.597	60.205
<b>60</b>	46.174	46.174	44.401	44.624	43.173
<b>65</b>	33.618	36.273	30.530	34.484	30.839
<b>70</b>	29.436	29.568	24.989	24.631	22.773
<b>75</b>	25.084	26.943	21.161	22.195	19.531
<b>80</b>	24.226	22.417	19.590	18.849	15.328
<b>85</b>	12.988	12.980	12.108	12.557	8.378
<b>90</b>	2.108	0.957	2.276	0.603	1.126

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1851.39	N.A.	57.20
0-30	2766.7	N.A.	85.50
0-40	3053.38	N.A.	94.30
0-60	3166.3	N.A.	97.80
0-80	3224.99	N.A.	99.60
0-90	3237.43	N.A.	100.00
10-90	2624.31	N.A.	81.10
20-40	1202.00	N.A.	37.10
20-50	1262.53	N.A.	39.00
40-70	147.08	N.A.	4.50
60-80	58.68	N.A.	1.80
70-80	24.52	N.A.	0.80
80-90	12.44	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	3237.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	613.12
10-20	1238.27
20-30	915.32
30-40	286.68
40-50	60.54
50-60	52.38
60-70	34.16
70-80	24.52
80-90	12.44
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

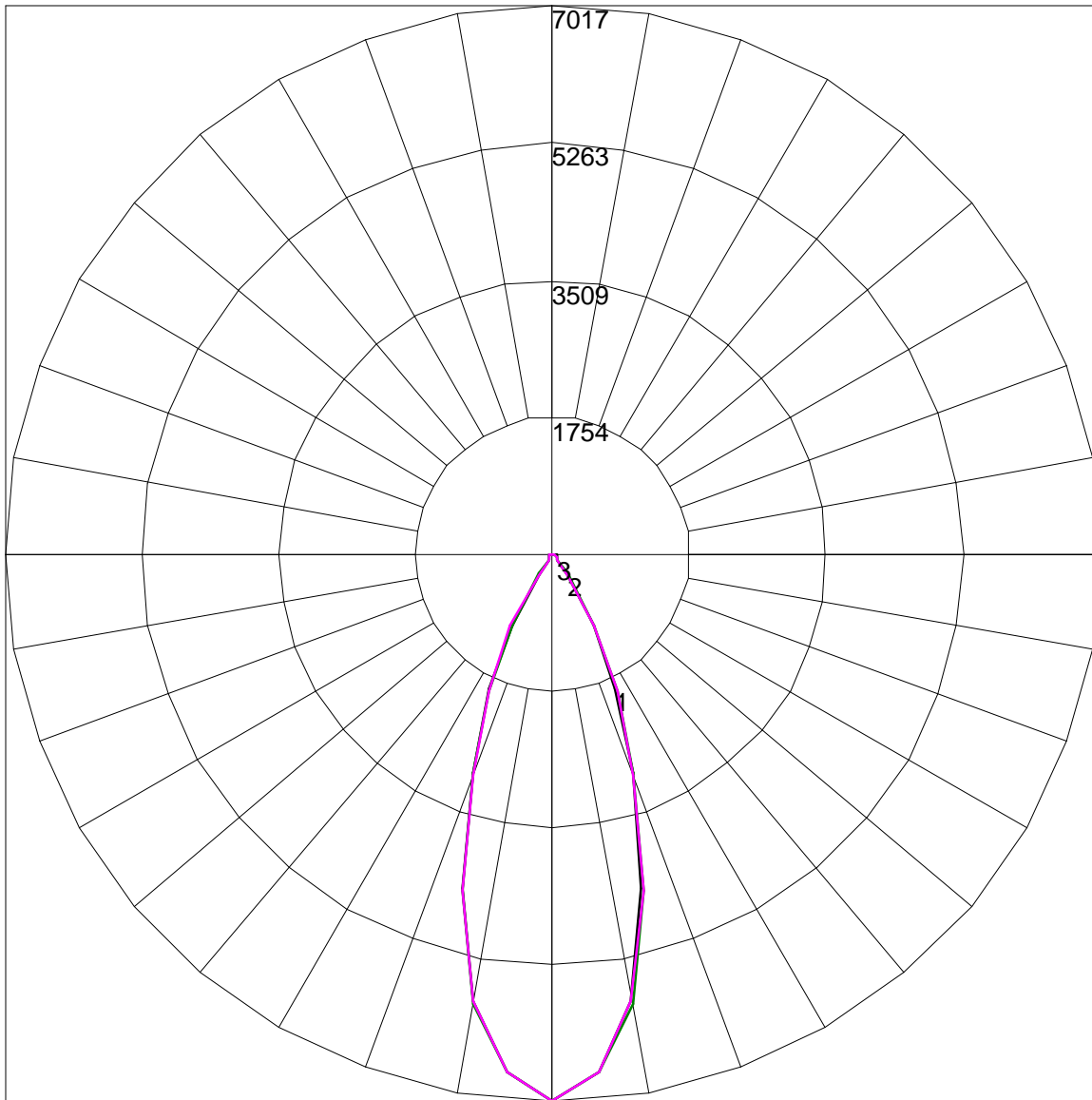
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	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	72	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	71	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 = 7017.381 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)