

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00551\_9 ~ 4XT-40LXXK-XWEX-MWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00551\_9\_M-40L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 4/5/2017  
[UPDATE] 8/21/2017  
[LUMINAIRE] Nom. 4" Diam Head/Module, Xtra Wide Beam  
[LUMCAT] 4XT-40L-xxK-XW-EX-MW-NL  
[OTHER] Matte White finish, no lens  
[OTHER] 56 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	3462
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.84
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	17276	19632	20570
55	8361	9356	8969
65	7526	7830	7700
75	11374	11881	11942
85	17983	18862	20842

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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>	4317.127	4317.127	4317.127	4317.127	4317.127
<b>5</b>	4229.551	4248.638	4266.480	4274.869	4280.174
<b>10</b>	4034.898	4063.006	4065.912	4085.608	4082.505
<b>15</b>	3764.994	3800.479	3786.383	3817.912	3794.700
<b>20</b>	3365.093	3416.634	3377.480	3422.057	3379.327
<b>25</b>	2737.292	2791.627	2739.974	2792.311	2740.908
<b>30</b>	1765.331	1861.902	1786.699	1872.728	1790.904
<b>35</b>	680.640	805.969	776.647	830.428	784.380
<b>40</b>	232.462	267.131	265.155	280.108	275.755
<b>45</b>	98.936	114.714	112.428	123.160	117.799
<b>50</b>	54.418	61.602	57.795	63.348	60.139
<b>55</b>	38.838	43.034	43.463	44.614	41.662
<b>60</b>	32.953	33.711	30.811	34.709	34.196
<b>65</b>	25.758	28.111	26.799	24.861	26.353
<b>70</b>	22.973	25.071	22.106	26.866	23.489
<b>75</b>	23.842	26.869	24.904	25.732	25.031
<b>80</b>	24.614	25.628	25.940	23.466	25.097
<b>85</b>	12.693	12.854	13.314	15.721	14.711
<b>90</b>	1.452	1.402	1.957	1.069	2.081

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**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1459.86	N.A.	42.20
0-30	2687.18	N.A.	77.60
0-40	3247.39	N.A.	93.80
0-60	3393.23	N.A.	98.00
0-80	3447.1	N.A.	99.60
0-90	3461.9	N.A.	100.00
10-90	3061.37	N.A.	88.40
20-40	1787.53	N.A.	51.60
20-50	1893.42	N.A.	54.70
40-70	173.19	N.A.	5.00
60-80	53.88	N.A.	1.60
70-80	26.52	N.A.	0.80
80-90	14.79	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	3461.9	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	400.52
10-20	1059.34
20-30	1227.32
30-40	560.21
40-50	105.89
50-60	39.94
60-70	27.36
70-80	26.52
80-90	14.79
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

# IES INDOOR REPORT

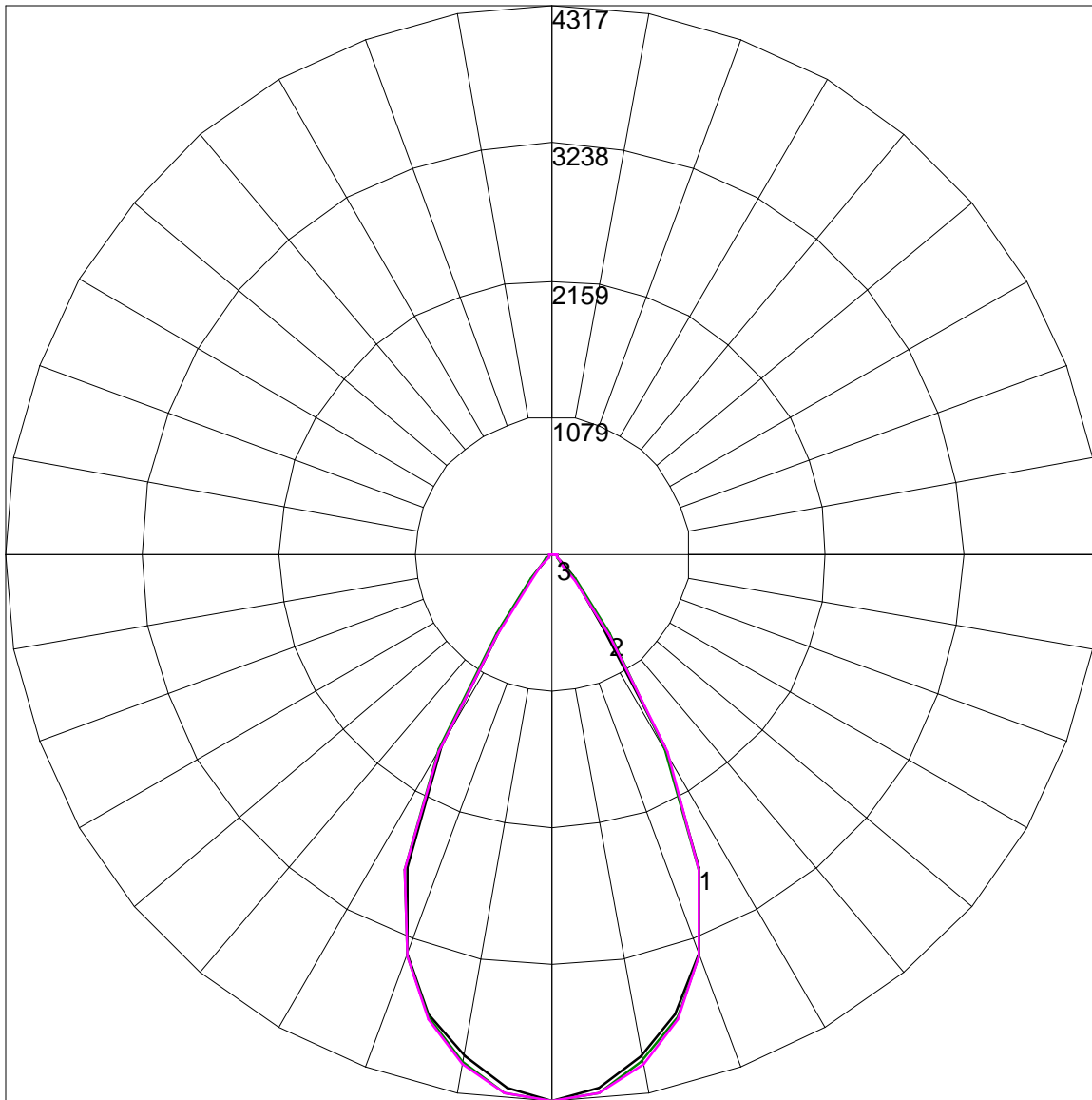
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	108	106	111	108	106	104	104	103	101	101	99	98	97	96	95	93
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	88	101	95	90	87	92	89	85	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	77	73	79	76	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	85	76	70	66	83	75	69	66	74	69	65	72	68	65	71	67	64	63
8	81	72	66	62	80	71	65	62	70	65	61	69	64	61	68	64	61	60
9	77	68	62	58	76	67	62	58	66	61	58	65	61	58	65	61	58	56
10	74	64	59	55	73	64	59	55	63	58	55	62	58	55	62	57	54	53

POLAR GRAPH



Maximum Candela = 4317.127 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)