

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP\_00548\_9 ~ SR4MX-XT13LE1-RDD4X-XXK-WDMWNL.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548.9\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/13/2017  
 [UPDATE] 4/18/2017  
 [LUMCAT] SR4MRx-XT13L-E1-RDD4x-xxK-WD-MW-NL  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Wide Beam  
 [OTHER] Matte White Trim, No lens  
 [OTHER] 39.4 Degree Beam Angle  
 [LAMP] N/A  
 [LAMPCAT] N/A, Min. 83 CRI  
 [OTHER] Total Luminaire Watts is approximate  
 [OTHER] For New Construction Non-IC Housing: SR4MO-XT-series  
 [OTHER] For New Construction IC Rated Housing: SR4MI-XT-series  
 [OTHER] For Remodel/Retrofit Housing: SR4MR-XT-Series  
 [OTHER] For RDD4F or RDD4N Downlight Trim  
 [OTHER] LEDXT lumen output is the same for all available CCT's  
 [OTHER] This report prepared by Spectrum Lighting, scaled from 40L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1002
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.68
Spacing Criterion (90-270)	0.68
Spacing Criterion (Diagonal)	0.68
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.36 ft (Diameter)
Luminous Width (90-270)	0.36 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	327	320	265
55	297	370	318
65	380	367	283
75	361	244	447
85	613	736	564

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0</b>	1867.813	1867.813	1867.813	1867.813	1867.813
<b>5</b>	1823.153	1834.810	1827.494	1834.690	1821.386
<b>10</b>	1640.070	1658.863	1649.627	1661.531	1644.752
<b>15</b>	1343.416	1362.798	1348.749	1371.375	1354.291
<b>20</b>	967.814	985.833	967.855	993.613	972.437
<b>25</b>	636.369	650.634	639.200	654.276	639.778
<b>30</b>	430.328	441.248	434.479	444.452	435.857
<b>35</b>	237.282	248.280	238.902	247.905	231.107
<b>40</b>	16.484	25.367	18.336	26.852	16.110
<b>45</b>	2.227	2.122	2.180	2.306	1.801
<b>50</b>	1.743	1.768	1.821	1.723	1.966
<b>55</b>	1.642	1.695	2.041	1.883	1.757
<b>60</b>	1.780	1.663	1.383	1.191	1.403
<b>65</b>	1.546	1.264	1.491	1.217	1.150
<b>70</b>	0.972	1.036	1.147	1.208	1.115
<b>75</b>	0.899	0.672	0.607	0.921	1.114
<b>80</b>	0.734	0.516	0.744	0.854	0.629
<b>85</b>	0.514	0.653	0.617	0.792	0.473
<b>90</b>	0.442	0.302	0.425	0.418	0.542

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Zone	Lumens	%Lamp	%Fixt
0-20	540.04	N.A.	53.90
0-30	847.63	N.A.	84.60
0-40	991.91	N.A.	99.00
0-60	998.67	N.A.	99.70
0-80	1000.87	N.A.	99.90
0-90	1001.52	N.A.	100.00
10-90	832.72	N.A.	83.10
20-40	451.87	N.A.	45.10
20-50	457.08	N.A.	45.60
40-70	8.06	N.A.	0.80
60-80	2.20	N.A.	0.20
70-80	0.90	N.A.	0.10
80-90	0.65	N.A.	0.10
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	1001.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	168.80
10-20	371.24
20-30	307.59
30-40	144.28
40-50	5.22
50-60	1.55
60-70	1.30
70-80	0.90
80-90	0.65
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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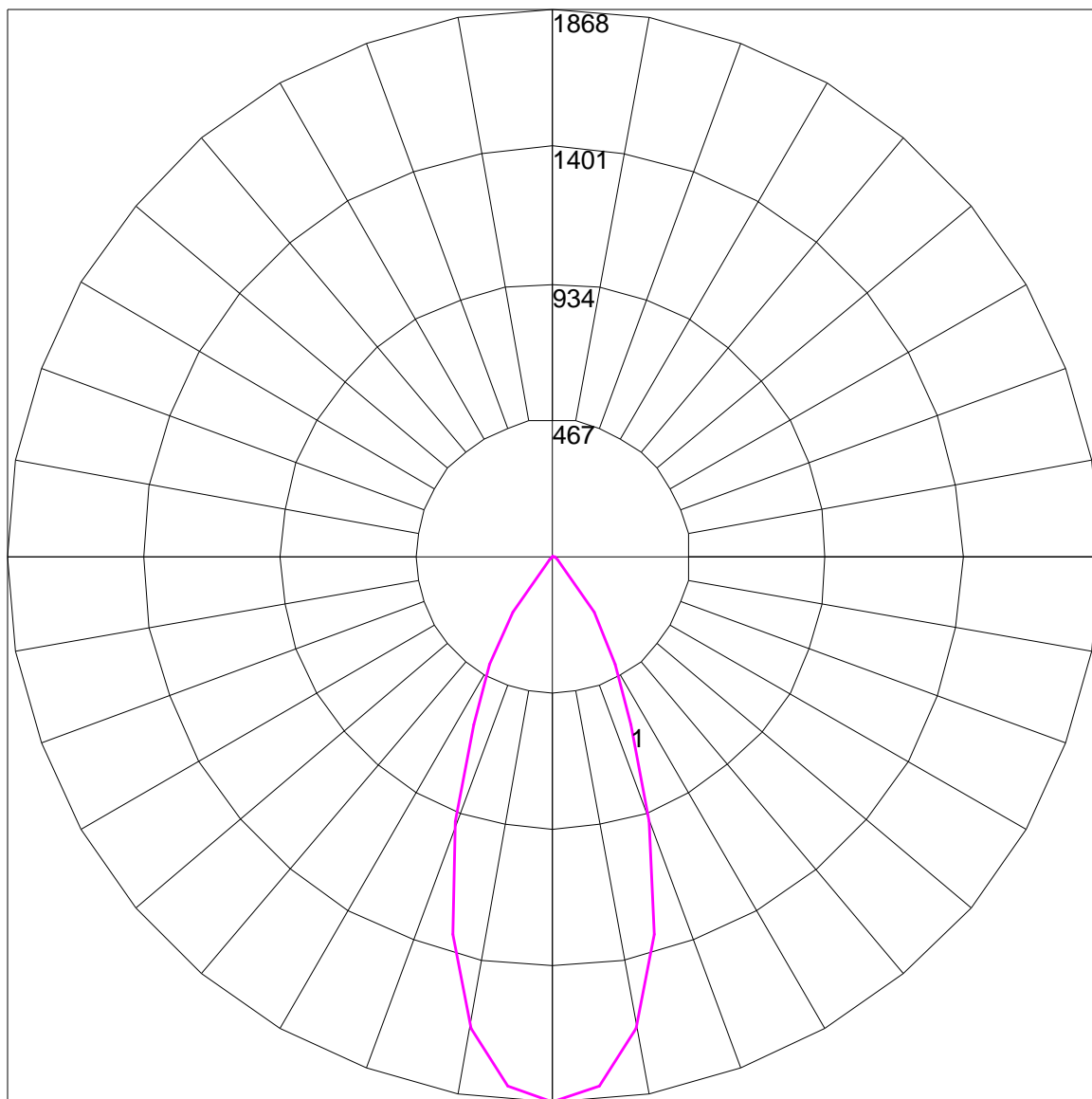
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	112	109	107	112	109	107	106	105	104	102	102	101	99	98	97	97	95
2	109	105	101	98	107	103	100	97	100	98	95	97	95	93	95	93	91	90
3	105	99	95	91	103	98	94	91	95	92	89	93	90	88	91	88	86	85
4	100	94	89	85	99	93	88	85	91	87	84	89	85	83	87	84	82	80
5	96	89	84	80	95	88	83	80	86	82	79	85	81	78	83	80	78	76
6	92	84	79	76	91	84	79	75	82	78	75	81	77	74	80	76	74	73
7	88	80	75	71	87	80	75	71	79	74	71	77	73	71	76	73	70	69
8	85	77	71	68	84	76	71	68	75	71	67	74	70	67	73	70	67	66
9	82	73	68	65	81	73	68	64	72	67	64	71	67	64	70	67	64	63
10	78	70	65	62	78	70	65	61	69	64	61	68	64	61	67	64	61	60

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POLAR GRAPH



Maximum Candela = 1867.813 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)