

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00548\_13 ~ SR4MX-XT13LE1-RDD4X-XXK-XWMWGL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548.13\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/13/2017  
 [UPDATE] 4/18/2017  
 [LUMCAT] SR4MRx-XT13L-E1-RDD4x-xxK-XW-MW-GL  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Xtra Wide Beam  
 [OTHER] Matte White Trim, Glass Lens  
 [OTHER] 61.6 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	946
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	63
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	0.92
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	3787	3625	3659
55	800	973	932
65	784	853	821
75	484	658	522
85	669	656	630

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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>	1045.369	1045.369	1045.369	1045.369	1045.369
<b>5</b>	1032.761	1035.624	1034.818	1038.075	1033.674
<b>10</b>	993.307	996.233	994.707	994.361	987.168
<b>15</b>	940.464	945.338	941.651	939.156	927.117
<b>20</b>	865.695	869.078	864.027	859.831	844.553
<b>25</b>	761.026	763.578	754.680	754.492	739.382
<b>30</b>	604.124	612.404	596.682	607.417	587.406
<b>35</b>	325.277	332.034	317.416	336.264	309.969
<b>40</b>	84.296	87.191	77.938	84.865	79.537
<b>45</b>	25.773	26.897	24.670	27.269	24.896
<b>50</b>	9.616	10.510	10.036	10.496	9.575
<b>55</b>	4.418	5.428	5.372	4.985	5.145
<b>60</b>	3.282	3.465	3.402	3.355	3.926
<b>65</b>	3.187	3.229	3.468	3.124	3.338
<b>70</b>	3.088	2.743	2.750	2.973	2.860
<b>75</b>	1.206	1.095	1.640	1.287	1.300
<b>80</b>	0.969	0.660	0.830	0.711	0.896
<b>85</b>	0.561	0.698	0.550	0.735	0.528
<b>90</b>	0.430	0.364	0.391	0.233	0.462

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Zone	Lumens	%Lamp	%Fixt
0-20	360.70	N.A.	38.10
0-30	702.33	N.A.	74.30
0-40	907.32	N.A.	95.90
0-60	940.14	N.A.	99.40
0-80	944.98	N.A.	99.90
0-90	945.63	N.A.	100.00
10-90	848.16	N.A.	89.70
20-40	546.62	N.A.	57.80
20-50	574.13	N.A.	60.70
40-70	36.00	N.A.	3.80
60-80	4.84	N.A.	0.50
70-80	1.65	N.A.	0.20
80-90	0.66	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	945.63	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	97.47
10-20	263.23
20-30	341.63
30-40	204.99
40-50	27.50
50-60	5.31
60-70	3.19
70-80	1.65
80-90	0.66
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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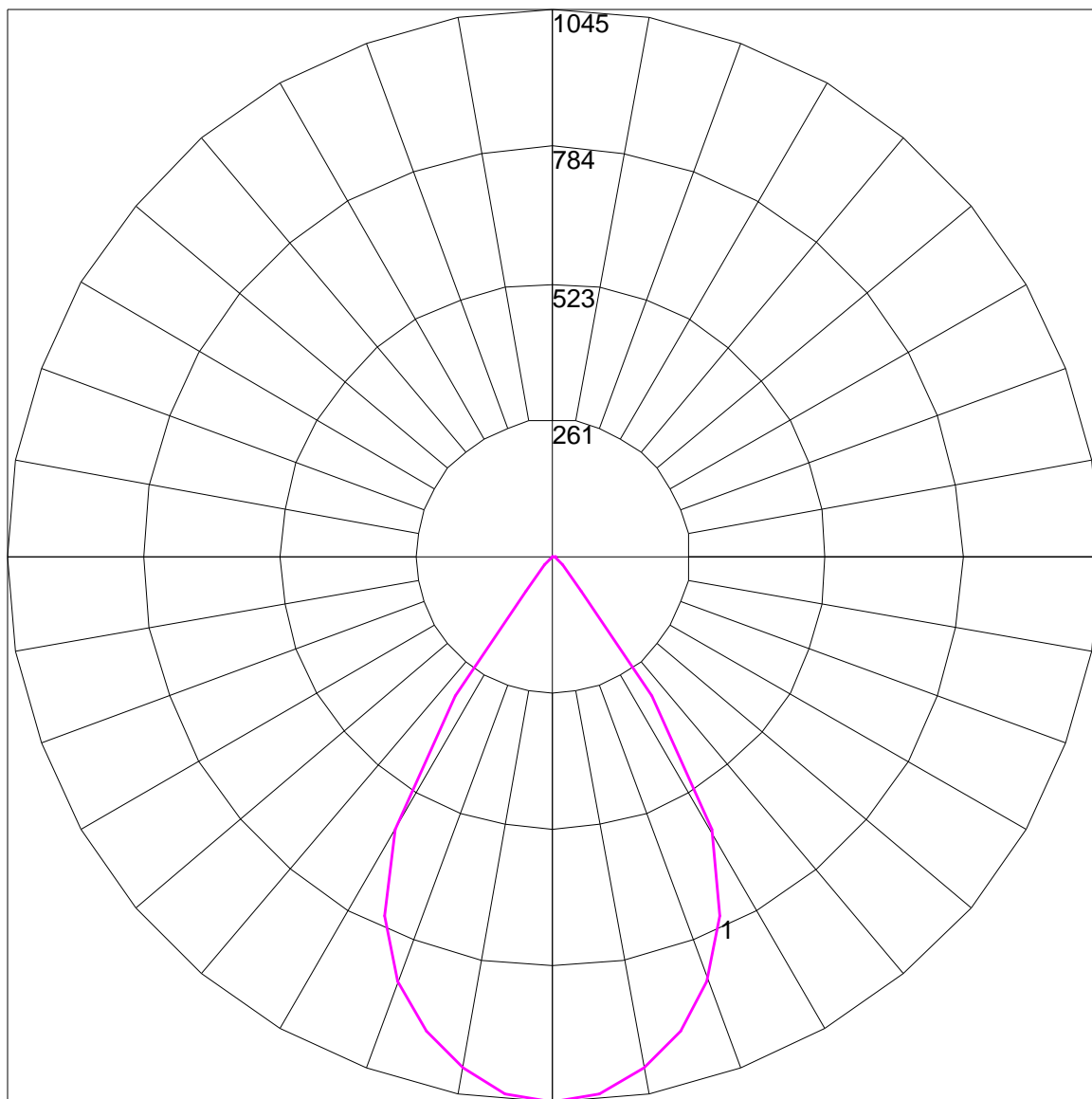
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	100	98	97	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	92	88	101	95	91	87	92	89	86	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	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 1045.369 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)