

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00548.4\_M-13L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 3/13/2017

[UPDATE] 4/18/2017

[LUMCAT] SR4MRx-XT13L-E1-RDD4x-xxK-ND-MW-GL

[LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Narrow Beam

[OTHER] Matte White Trim, Clear glass lens

[OTHER] 16.1 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	931
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	62
Total Luminaire Watts	15
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.30
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.32
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1212	1100	1067
55	934	870	1041
65	485	651	542
75	472	516	345
85	583	820	897

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT13LE1-RDD4X-XXK-NDMWGL.IES****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>	5610.852	5610.852	5610.852	5610.852	5610.852
<b>5</b>	4488.641	4656.208	4513.161	4579.904	4435.477
<b>10</b>	2044.573	2178.769	2045.214	2115.161	2011.729
<b>15</b>	858.245	903.433	853.696	886.739	854.151
<b>20</b>	462.142	477.995	464.900	475.451	470.460
<b>25</b>	351.598	354.378	348.601	354.790	351.520
<b>30</b>	310.201	311.411	306.965	311.046	308.091
<b>35</b>	155.973	168.469	151.578	157.339	149.106
<b>40</b>	13.275	22.192	14.467	19.436	12.807
<b>45</b>	8.247	7.227	7.487	8.215	7.264
<b>50</b>	6.108	6.172	4.979	6.302	4.919
<b>55</b>	5.157	4.796	4.802	5.140	5.745
<b>60</b>	2.688	4.121	3.492	4.256	4.164
<b>65</b>	1.974	1.410	2.646	2.861	2.204
<b>70</b>	1.551	1.241	3.094	1.725	1.126
<b>75</b>	1.176	1.324	1.286	1.328	0.859
<b>80</b>	0.672	0.710	0.978	1.188	0.566
<b>85</b>	0.489	0.727	0.688	0.517	0.752
<b>90</b>	0.373	0.361	0.303	0.547	0.361

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Zone	Lumens	%Lamp	%Fixt
0-20	646.14	N.A.	69.40
0-30	816.28	N.A.	87.70
0-40	914.23	N.A.	98.20
0-60	925.95	N.A.	99.50
0-80	929.84	N.A.	99.90
0-90	930.54	N.A.	100.00
10-90	571.33	N.A.	61.40
20-40	268.09	N.A.	28.80
20-50	275.42	N.A.	29.60
40-70	14.24	N.A.	1.50
60-80	3.89	N.A.	0.40
70-80	1.37	N.A.	0.10
80-90	0.69	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	930.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	359.20
10-20	286.93
20-30	170.14
30-40	97.95
40-50	7.33
50-60	4.40
60-70	2.52
70-80	1.37
80-90	0.69
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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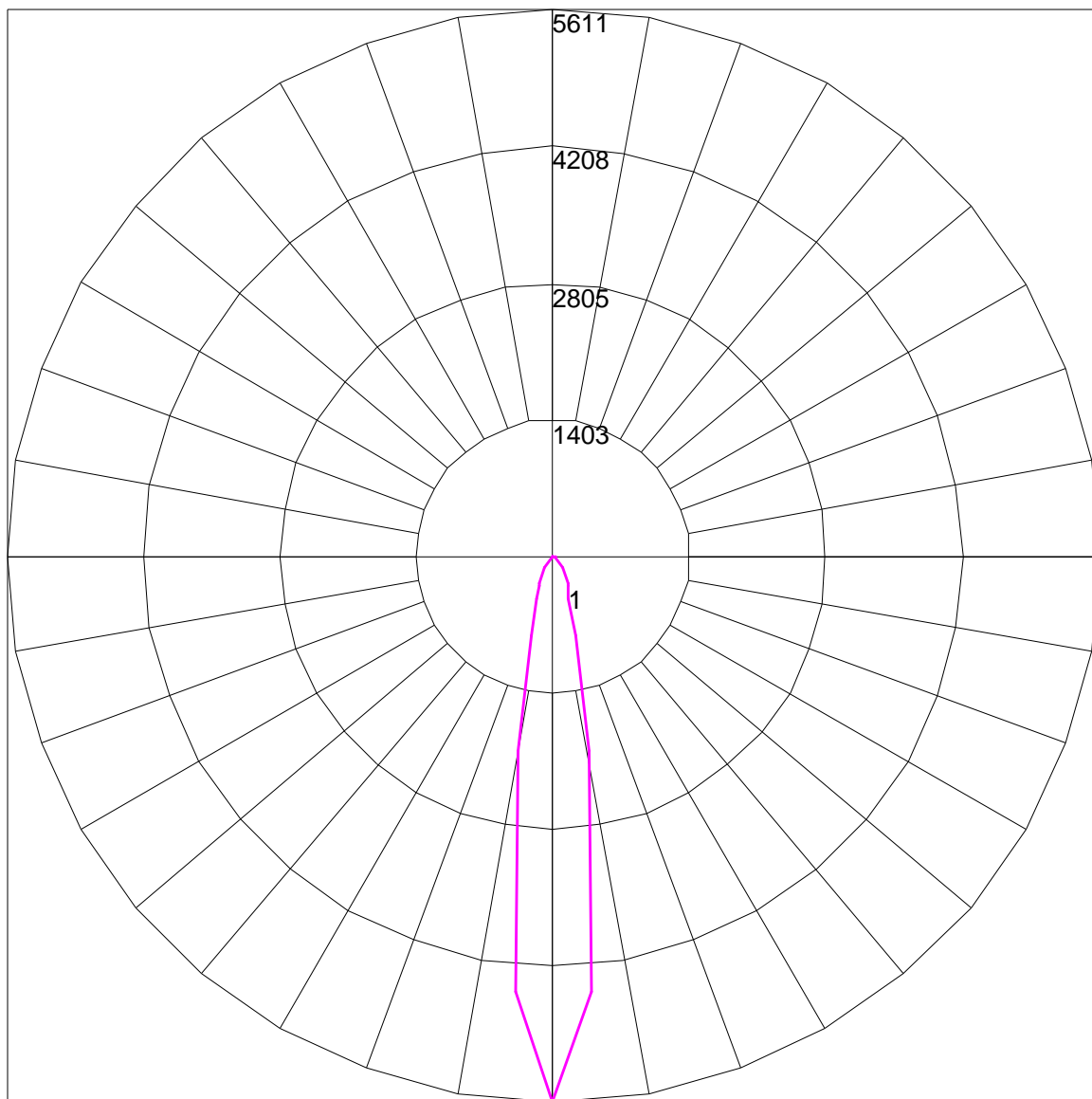
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	102	100	102	100	98	99	97	96	97	95	94	92
3	107	102	98	95	105	101	97	94	98	95	93	96	94	92	94	92	90	89
4	103	98	93	90	102	97	93	90	95	91	89	93	90	88	91	89	87	86
5	100	94	89	86	99	93	89	86	91	88	85	90	87	84	88	86	84	83
6	97	90	86	83	96	90	85	82	88	85	82	87	84	81	86	83	81	80
7	94	87	83	80	93	87	82	79	85	82	79	84	81	79	83	80	78	77
8	91	84	80	77	90	84	80	77	83	79	76	82	79	76	81	78	76	75
9	89	82	77	74	88	81	77	74	80	77	74	80	76	74	79	76	74	73
10	86	79	75	72	85	79	75	72	78	75	72	78	74	72	77	74	72	71

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POLAR GRAPH



Maximum Candela = 5610.852 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)