

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_8 ~ SR4MX-XT20LE1-RDD4X-XXK-MDMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00548.8\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/13/2017  
[UPDATE] 4/18/2017  
[LUMCAT] SR4MRx-XT20L-E1-RDD4x-xxK-MD-MW-SO  
[LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Medium Beam  
[OTHER] Matte White Trim, Solite lens  
[OTHER] 29.5 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	1390
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.52
Spacing Criterion (90-270)	0.52
Spacing Criterion (Diagonal)	0.56
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\_8 ~ SR4MX-XT20LE1-RDD4X-XXK-MDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5582	5288	5490
55	2949	3093	3144
65	2134	2182	2111
75	1177	1271	1171
85	1553	1047	993

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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>	3370.721	3370.721	3370.721	3370.721	3370.721
<b>5</b>	3130.621	3171.151	3170.517	3209.070	3193.126
<b>10</b>	2469.095	2530.444	2523.288	2582.380	2553.820
<b>15</b>	1715.352	1768.037	1751.255	1814.244	1787.193
<b>20</b>	1122.853	1154.350	1143.714	1188.857	1173.266
<b>25</b>	752.397	770.807	765.825	792.510	785.485
<b>30</b>	500.532	515.871	513.284	533.392	525.075
<b>35</b>	257.471	275.800	272.446	288.450	277.887
<b>40</b>	87.411	93.371	93.148	98.813	92.900
<b>45</b>	37.983	36.428	35.982	38.733	37.362
<b>50</b>	22.755	22.636	22.066	24.112	23.715
<b>55</b>	16.277	16.708	17.073	16.774	17.357
<b>60</b>	12.248	11.753	12.931	13.326	12.622
<b>65</b>	8.679	8.671	8.874	8.741	8.584
<b>70</b>	5.119	5.360	5.423	6.551	6.123
<b>75</b>	2.931	2.949	3.166	3.189	2.917
<b>80</b>	1.288	1.405	1.656	1.557	1.266
<b>85</b>	1.303	1.108	0.878	1.245	0.833
<b>90</b>	0.647	0.239	0.821	0.311	0.909

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Zone	Lumens	%Lamp	%Fixt
0-20	779.76	N.A.	56.10
0-30	1146.2	N.A.	82.40
0-40	1324.98	N.A.	95.30
0-60	1376.89	N.A.	99.00
0-80	1389.26	N.A.	99.90
0-90	1390.39	N.A.	100.00
10-90	1107.65	N.A.	79.70
20-40	545.22	N.A.	39.20
20-50	581.66	N.A.	41.80
40-70	60.76	N.A.	4.40
60-80	12.36	N.A.	0.90
70-80	3.51	N.A.	0.30
80-90	1.13	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	1390.39	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	282.73
10-20	497.02
20-30	366.44
30-40	178.79
40-50	36.44
50-60	15.47
60-70	8.85
70-80	3.51
80-90	1.13
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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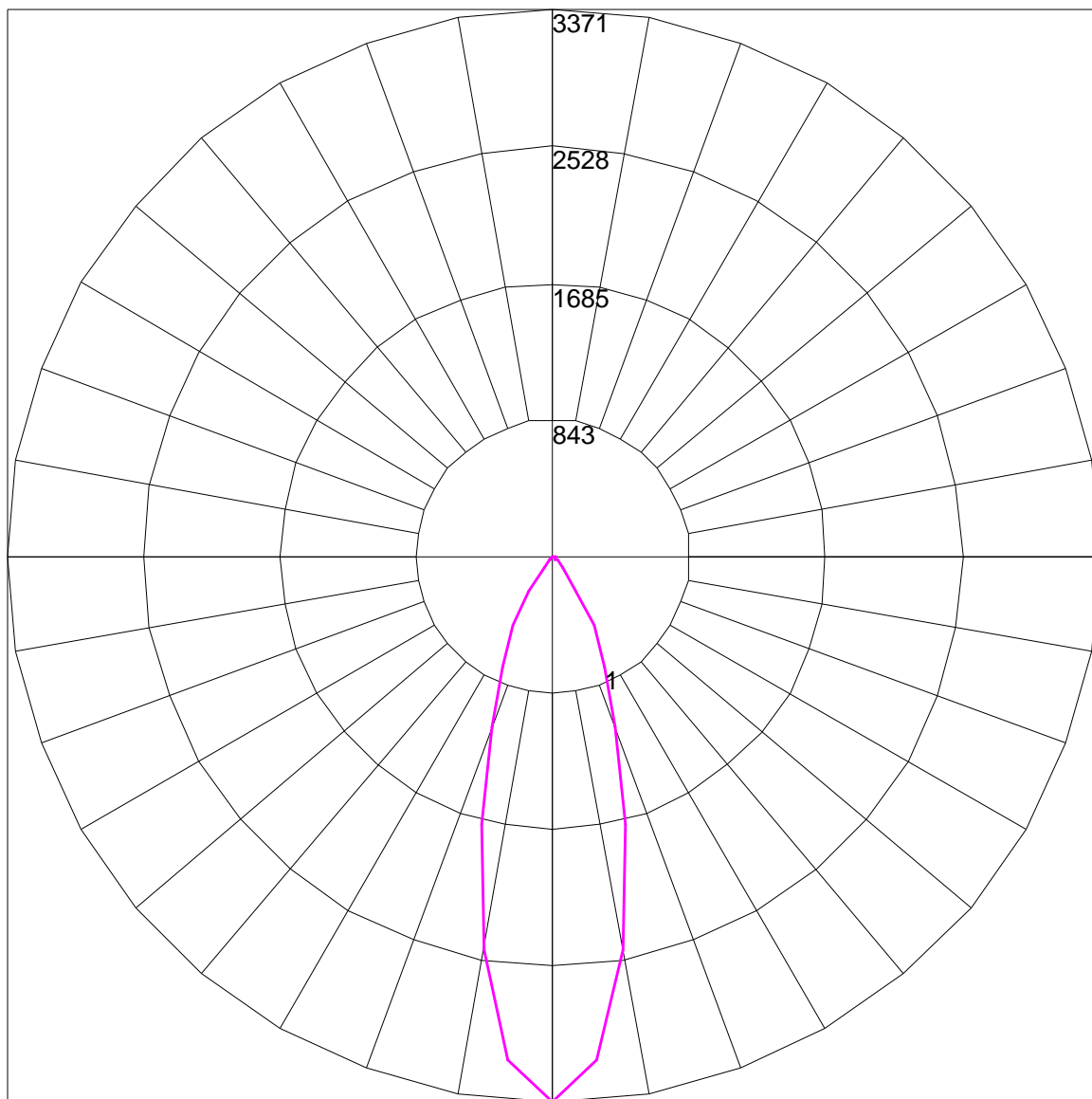
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	93	91	89
3	105	99	94	91	103	98	93	90	95	92	89	93	90	87	90	88	86	85
4	100	94	89	85	98	92	88	84	90	87	83	88	85	83	87	84	82	80
5	96	89	84	80	95	88	83	79	86	82	79	85	81	78	83	80	77	76
6	92	84	79	75	91	84	79	75	82	78	75	81	77	74	80	76	74	72
7	88	80	75	72	87	80	75	71	79	74	71	77	74	71	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

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POLAR GRAPH



Maximum Candela = 3370.721 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)