

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP\_00548\_11 ~ SR4MX-XT40LE1-RDD4X-XXK-WDMWSO.IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548.11  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 3/13/2017  
 [UPDATE] 4/18/2017  
 [LUMCAT] SR4MRx-XT40L-E1-RDD4x-xxK-WD-MW-SO  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Wide Beam  
 [OTHER] Matte White Trim, Solite lens  
 [OTHER] 40 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 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	2609
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	39.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.64
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_11 ~ SR4MX-XT40LE1-RDD4X-XXK-WDMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12562	11774	12253
55	6941	6240	6098
65	4867	4522	3820
75	2078	1633	2000
85	2908	1841	2662

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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>	4778.900	4778.900	4778.900	4778.900	4778.900
<b>5</b>	4554.700	4586.678	4591.875	4648.348	4651.912
<b>10</b>	3990.655	4047.714	4048.684	4154.747	4154.752
<b>15</b>	3189.272	3261.269	3253.894	3383.733	3371.202
<b>20</b>	2337.561	2409.070	2398.456	2515.400	2487.625
<b>25</b>	1607.311	1659.289	1640.489	1730.393	1702.150
<b>30</b>	1020.394	1049.972	1022.372	1088.103	1064.655
<b>35</b>	524.684	549.109	522.531	570.025	534.304
<b>40</b>	202.820	216.743	205.620	222.376	205.623
<b>45</b>	85.482	87.924	80.121	84.868	83.378
<b>50</b>	51.422	50.510	45.779	47.897	47.099
<b>55</b>	38.312	35.545	34.443	33.136	33.661
<b>60</b>	28.479	26.195	25.629	24.715	23.447
<b>65</b>	19.794	18.404	18.390	18.150	15.537
<b>70</b>	13.390	11.659	11.710	11.063	9.856
<b>75</b>	5.175	4.700	4.068	5.579	4.982
<b>80</b>	3.148	3.405	2.454	2.908	2.731
<b>85</b>	2.439	2.145	1.544	2.236	2.233
<b>90</b>	1.551	1.698	1.387	0.768	1.273

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Zone	Lumens	%Lamp	%Fixt
0-20	1332.67	N.A.	51.10
0-30	2107.69	N.A.	80.80
0-40	2468.32	N.A.	94.60
0-60	2582.09	N.A.	99.00
0-80	2606.6	N.A.	99.90
0-90	2608.89	N.A.	100.00
10-90	2185.86	N.A.	83.80
20-40	1135.65	N.A.	43.50
20-50	1217.37	N.A.	46.70
40-70	131.92	N.A.	5.10
60-80	24.52	N.A.	0.90
70-80	6.36	N.A.	0.20
80-90	2.28	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	2608.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	423.03
10-20	909.65
20-30	775.02
30-40	360.63
40-50	81.73
50-60	32.04
60-70	18.15
70-80	6.36
80-90	2.28
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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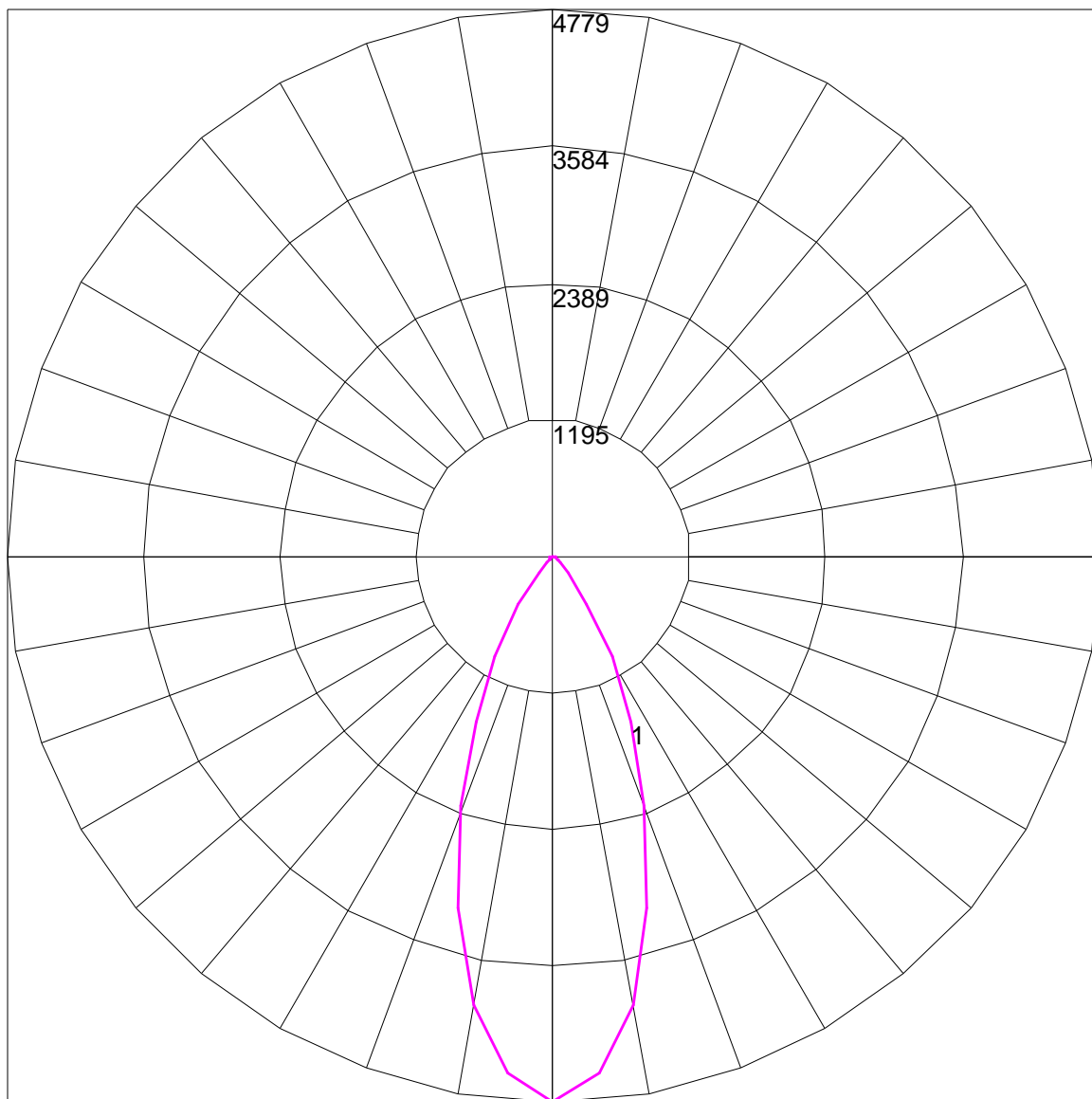
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	101	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	89	87	85	83
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	83	80	79
5	95	87	82	78	93	86	81	78	85	80	77	83	79	76	82	78	76	74
6	91	83	77	73	89	82	77	73	80	76	73	79	75	72	78	74	72	70
7	87	79	73	69	86	78	73	69	77	72	69	76	71	68	74	71	68	67
8	83	75	69	66	82	74	69	65	73	68	65	72	68	65	71	67	65	63
9	80	71	66	62	79	71	66	62	70	65	62	69	65	62	68	64	62	60
10	77	68	63	59	76	68	63	59	67	62	59	66	62	59	65	61	59	58

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POLAR GRAPH



Maximum Candela = 4778.9 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)