

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT40LE1-RDD4X-XXK-NDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00548.4  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/13/2017  
[UPDATE] 4/18/2017  
[LUMCAT] SR4MRx-XT40L-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 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	2756
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	39.9
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-XT40LE1-RDD4X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3589	3258	3161
55	2766	2576	3082
65	1437	1926	1605
75	1398	1528	1021
85	1726	2430	2654

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_4 ~ SR4MX-XT40LE1-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>	16614.900	16614.900	16614.900	16614.900	16614.900
<b>5</b>	13291.800	13788.000	13364.410	13562.050	13134.370
<b>10</b>	6054.405	6451.787	6056.304	6263.433	5957.147
<b>15</b>	2541.443	2675.252	2527.971	2625.820	2529.318
<b>20</b>	1368.500	1415.442	1376.665	1407.910	1393.130
<b>25</b>	1041.155	1049.386	1032.281	1050.607	1040.925
<b>30</b>	918.570	922.152	908.988	921.071	912.322
<b>35</b>	461.868	498.872	448.855	465.914	441.533
<b>40</b>	39.311	65.715	42.841	57.553	37.925
<b>45</b>	24.420	21.402	22.171	24.327	21.509
<b>50</b>	18.088	18.276	14.744	18.661	14.567
<b>55</b>	15.270	14.203	14.221	15.221	17.013
<b>60</b>	7.959	12.204	10.342	12.602	12.330
<b>65</b>	5.845	4.176	7.834	8.472	6.526
<b>70</b>	4.592	3.675	9.162	5.107	3.334
<b>75</b>	3.483	3.920	3.807	3.932	2.543
<b>80</b>	1.990	2.101	2.895	3.517	1.677
<b>85</b>	1.448	2.152	2.038	1.532	2.226
<b>90</b>	1.104	1.068	0.896	1.621	1.070

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Zone	Lumens	%Lamp	%Fixt
0-20	1913.35	N.A.	69.40
0-30	2417.18	N.A.	87.70
0-40	2707.22	N.A.	98.20
0-60	2741.94	N.A.	99.50
0-80	2753.46	N.A.	99.90
0-90	2755.51	N.A.	100.00
10-90	1691.83	N.A.	61.40
20-40	793.86	N.A.	28.80
20-50	815.57	N.A.	29.60
40-70	42.18	N.A.	1.50
60-80	11.51	N.A.	0.40
70-80	4.06	N.A.	0.10
80-90	2.05	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	2755.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1063.68
10-20	849.67
20-30	503.83
30-40	290.04
40-50	21.71
50-60	13.02
60-70	7.45
70-80	4.06
80-90	2.05
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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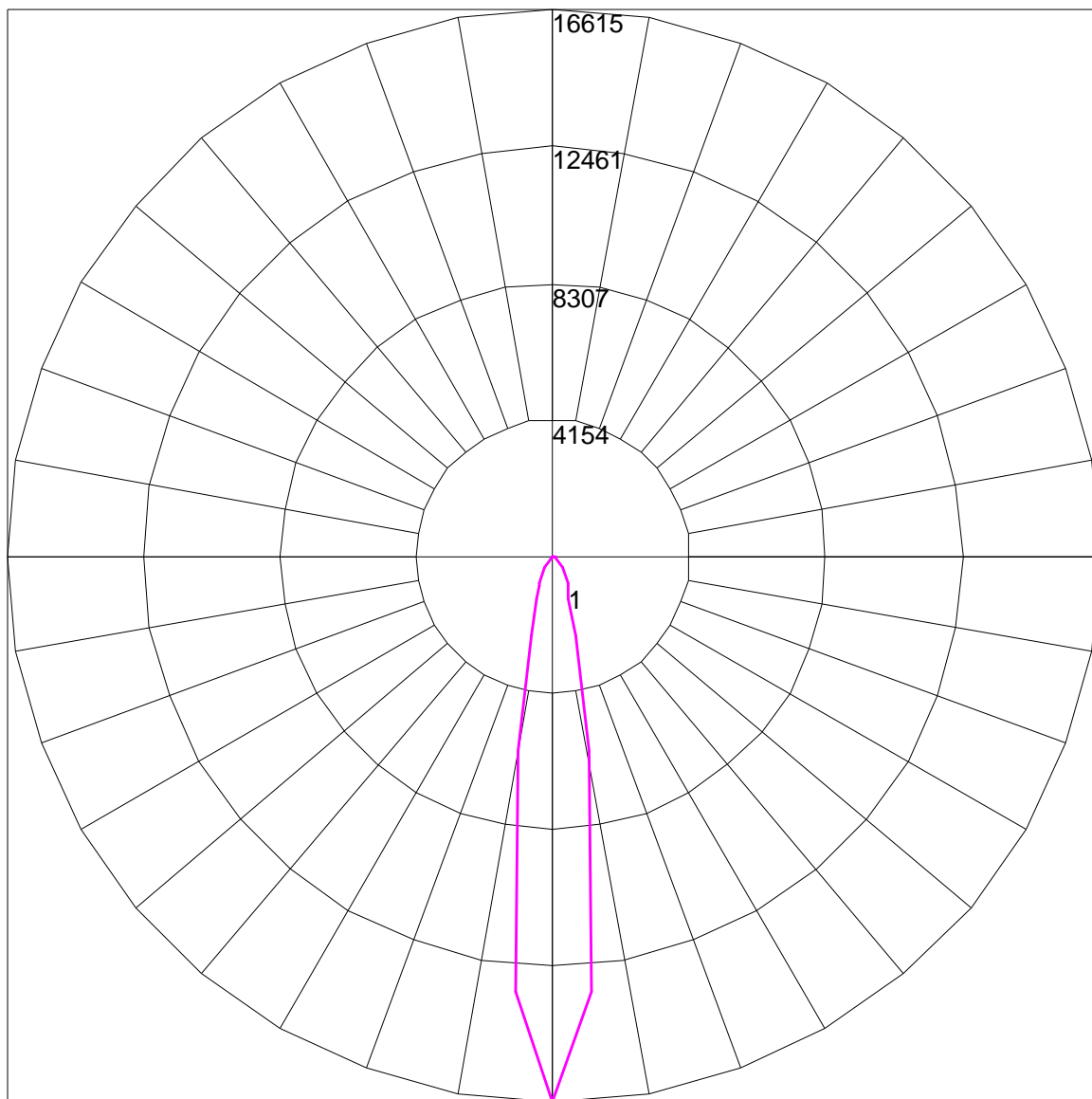
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	81	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 = 16614.9 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)