

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_7 ~ SR4MX-XT20LE1-RDD4X-XXK-MDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00548.7\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 3/13/2017  
[UPDATE] 4/18/2017  
[LUMCAT] SR4MRx-XT20L-E1-RDD4x-xxK-MD-MW-GL  
[LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Medium Beam  
[OTHER] Matte White Trim, clear glass lens  
[OTHER] 27 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	1427
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	60
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.50
Spacing Criterion (Diagonal)	0.50
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\_7 ~ SR4MX-XT20LE1-RDD4X-XXK-MDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2570	2500	2426
55	2415	2559	2347
65	773	756	926
75	617	613	752
85	805	1105	1145

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_7 ~ SR4MX-XT20LE1-RDD4X-XXK-MDMWGL.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>	4022.872	4022.872	4022.872	4022.872	4022.872
<b>5</b>	3752.089	3778.265	3768.928	3807.786	3802.754
<b>10</b>	2829.596	2862.040	2836.535	2912.320	2915.056
<b>15</b>	1805.055	1837.502	1819.592	1889.453	1890.829
<b>20</b>	1102.486	1121.633	1109.757	1149.802	1147.680
<b>25</b>	731.721	745.963	743.189	759.376	758.761
<b>30</b>	547.577	558.148	557.354	569.312	568.698
<b>35</b>	266.943	284.596	278.002	300.796	299.278
<b>40</b>	24.332	23.618	21.208	27.230	26.920
<b>45</b>	17.491	16.377	17.014	16.341	16.511
<b>50</b>	16.974	16.551	16.352	15.467	15.038
<b>55</b>	13.330	13.173	14.128	13.072	12.955
<b>60</b>	6.481	7.480	5.130	6.531	7.015
<b>65</b>	3.143	2.923	3.073	3.173	3.768
<b>70</b>	3.635	2.627	1.701	2.913	2.479
<b>75</b>	1.536	1.999	1.528	1.285	1.872
<b>80</b>	1.020	1.075	0.925	0.739	1.614
<b>85</b>	0.675	1.013	0.927	0.567	0.960
<b>90</b>	0.740	0.660	0.576	0.340	0.963

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Zone	Lumens	%Lamp	%Fixt
0-20	856.50	N.A.	60.00
0-30	1218.83	N.A.	85.40
0-40	1395.51	N.A.	97.80
0-60	1420.74	N.A.	99.50
0-80	1426.34	N.A.	99.90
0-90	1427.23	N.A.	100.00
10-90	1095.88	N.A.	76.80
20-40	539.01	N.A.	37.80
20-50	553.24	N.A.	38.80
40-70	29.02	N.A.	2.00
60-80	5.60	N.A.	0.40
70-80	1.81	N.A.	0.10
80-90	0.90	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	1427.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	331.35
10-20	525.15
20-30	362.33
30-40	176.68
40-50	14.23
50-60	11.00
60-70	3.79
70-80	1.81
80-90	0.90
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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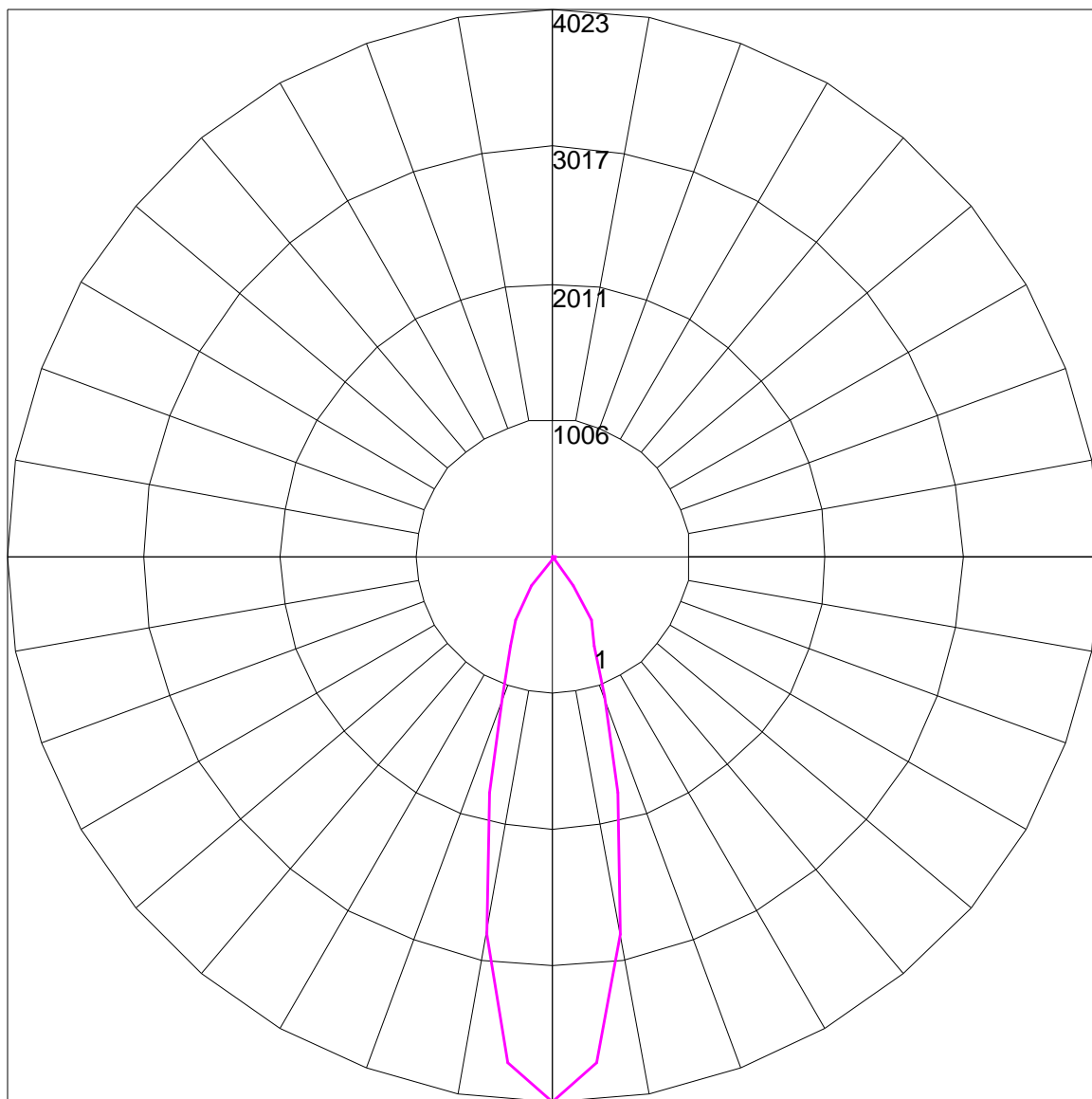
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	92	103	99	95	92	96	93	90	94	91	89	92	89	87	86
4	101	95	90	87	100	94	89	86	92	88	85	90	87	84	88	85	83	82
5	97	90	85	82	96	89	85	81	88	84	81	86	83	80	85	82	79	78
6	94	86	81	78	92	85	81	77	84	80	77	83	79	76	81	78	76	75
7	90	82	77	74	89	82	77	74	81	76	73	79	76	73	78	75	73	71
8	87	79	74	71	86	78	74	70	77	73	70	76	73	70	76	72	70	68
9	84	76	71	68	83	75	71	67	74	70	67	74	70	67	73	69	67	66
10	81	73	68	65	80	72	68	65	72	67	65	71	67	64	70	67	64	63

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POLAR GRAPH



Maximum Candela = 4022.872 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)