

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548\_13 ~ SR4MX-XT20LE1-RDD4X-XXK-XWMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00548.13\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 3/13/2017  
[UPDATE] 4/18/2017  
[LUMCAT] SR4MRx-XT20L-E1-RDD4x-xxK-XW-MW-GL  
[LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Xtra Wide Beam  
[OTHER] Matte White Trim, Glass lens  
[OTHER] 61.6 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	1455
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.00
Spacing Criterion (90-270)	0.98
Spacing Criterion (Diagonal)	0.92
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\_13 ~ SR4MX-XT20LE1-RDD4X-XXK-XWMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5826	5577	5628
55	1231	1497	1434
65	1206	1312	1263
75	745	1013	803
85	1028	1010	968

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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>	1608.140	1608.140	1608.140	1608.140	1608.140
<b>5</b>	1588.746	1593.150	1591.909	1596.921	1590.150
<b>10</b>	1528.052	1532.553	1530.205	1529.674	1518.607
<b>15</b>	1446.761	1454.259	1448.587	1444.748	1426.228
<b>20</b>	1331.740	1336.944	1329.175	1322.719	1299.216
<b>25</b>	1170.722	1174.648	1160.961	1160.672	1137.427
<b>30</b>	929.353	942.091	917.904	934.418	903.635
<b>35</b>	500.389	510.783	488.296	517.291	476.840
<b>40</b>	129.676	134.130	119.896	130.552	122.355
<b>45</b>	39.647	41.377	37.951	41.949	38.299
<b>50</b>	14.793	16.168	15.439	16.147	14.730
<b>55</b>	6.797	8.350	8.264	7.668	7.915
<b>60</b>	5.050	5.331	5.233	5.162	6.039
<b>65</b>	4.903	4.968	5.335	4.806	5.135
<b>70</b>	4.751	4.219	4.230	4.573	4.400
<b>75</b>	1.855	1.685	2.522	1.980	2.001
<b>80</b>	1.491	1.015	1.276	1.094	1.378
<b>85</b>	0.862	1.074	0.847	1.130	0.812
<b>90</b>	0.661	0.561	0.601	0.358	0.711

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Zone	Lumens	%Lamp	%Fixt
0-20	554.88	N.A.	38.10
0-30	1080.42	N.A.	74.30
0-40	1395.78	N.A.	95.90
0-60	1446.26	N.A.	99.40
0-80	1453.71	N.A.	99.90
0-90	1454.72	N.A.	100.00
10-90	1304.77	N.A.	89.70
20-40	840.90	N.A.	57.80
20-50	883.21	N.A.	60.70
40-70	55.39	N.A.	3.80
60-80	7.45	N.A.	0.50
70-80	2.55	N.A.	0.20
80-90	1.01	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	1454.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	149.94
10-20	404.93
20-30	525.55
30-40	315.35
40-50	42.31
50-60	8.18
60-70	4.90
70-80	2.55
80-90	1.01
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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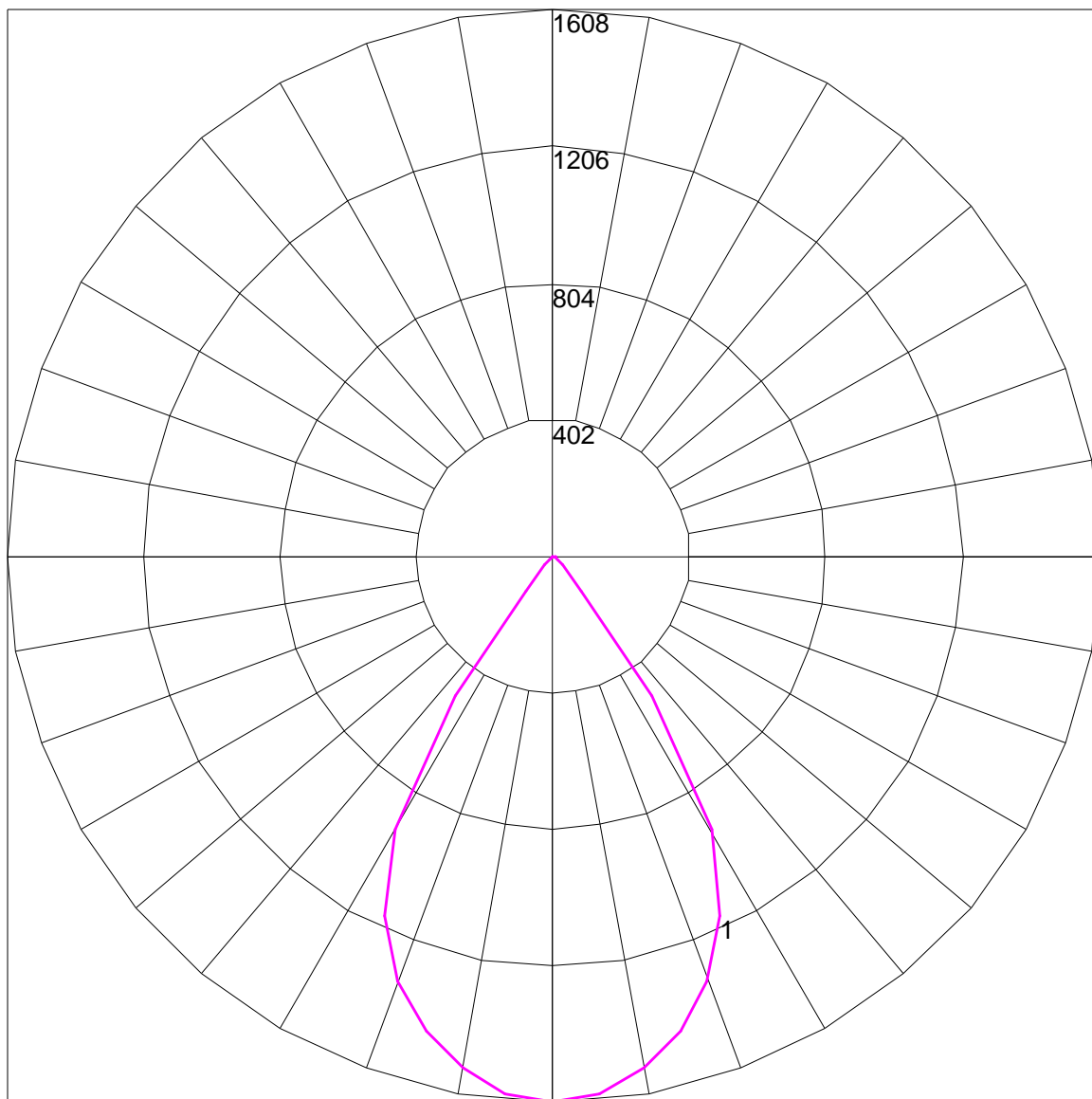
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71
6	88	80	74	70	87	79	73	69	77	72	69	76	72	68	75	71	68	66
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55
10	73	63	57	54	72	63	57	54	62	57	53	61	57	53	60	56	53	52

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POLAR GRAPH



Maximum Candela = 1608.14 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)