

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00548\_12 ~ SR4MX-XT20LE1-RDD4X-XXK-XWMWNL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548.12\_M-20L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/13/2017  
 [UPDATE] 4/18/2017  
 [LUMCAT] SR4MRx-XT20L-E1-RDD4x-xxK-XW-MW-NL  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Xtra Wide Beam  
 [OTHER] Matte White Trim, no lens  
 [OTHER] 61.7 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	1558
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.98
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3736	3861	4222
55	605	447	537
65	466	492	574
75	613	563	694
85	1187	1241	956

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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>	1767.919	1767.919	1767.919	1767.919	1767.919
<b>5</b>	1740.452	1745.808	1745.879	1750.234	1751.697
<b>10</b>	1666.552	1675.199	1672.320	1673.613	1666.165
<b>15</b>	1570.943	1580.167	1575.630	1573.368	1562.165
<b>20</b>	1429.027	1440.217	1432.284	1432.874	1417.282
<b>25</b>	1248.347	1257.748	1249.882	1255.785	1242.391
<b>30</b>	986.972	1008.907	985.905	1010.433	990.957
<b>35</b>	541.777	563.430	543.521	582.350	564.405
<b>40</b>	114.043	123.263	120.206	130.032	125.693
<b>45</b>	25.426	28.154	26.271	30.814	28.730
<b>50</b>	7.292	7.493	6.789	8.435	8.548
<b>55</b>	3.338	2.907	2.466	3.356	2.964
<b>60</b>	2.552	2.753	2.235	2.546	2.712
<b>65</b>	1.894	1.858	2.003	2.414	2.336
<b>70</b>	1.533	2.002	1.552	1.685	1.820
<b>75</b>	1.528	1.478	1.403	1.516	1.729
<b>80</b>	1.124	1.094	1.175	1.265	1.281
<b>85</b>	0.996	1.200	1.041	0.802	0.802
<b>90</b>	0.547	0.530	0.403	0.355	0.714

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Zone	Lumens	%Lamp	%Fixt
0-20	604.60	N.A.	38.80
0-30	1170.97	N.A.	75.10
0-40	1514.68	N.A.	97.20
0-60	1553.52	N.A.	99.70
0-80	1557.19	N.A.	99.90
0-90	1558.18	N.A.	100.00
10-90	1393.85	N.A.	89.50
20-40	910.08	N.A.	58.40
20-50	945.34	N.A.	60.70
40-70	40.94	N.A.	2.60
60-80	3.66	N.A.	0.20
70-80	1.57	N.A.	0.10
80-90	0.99	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	1558.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	164.32
10-20	440.28
20-30	566.37
30-40	343.71
40-50	35.26
50-60	3.59
60-70	2.10
70-80	1.57
80-90	0.99
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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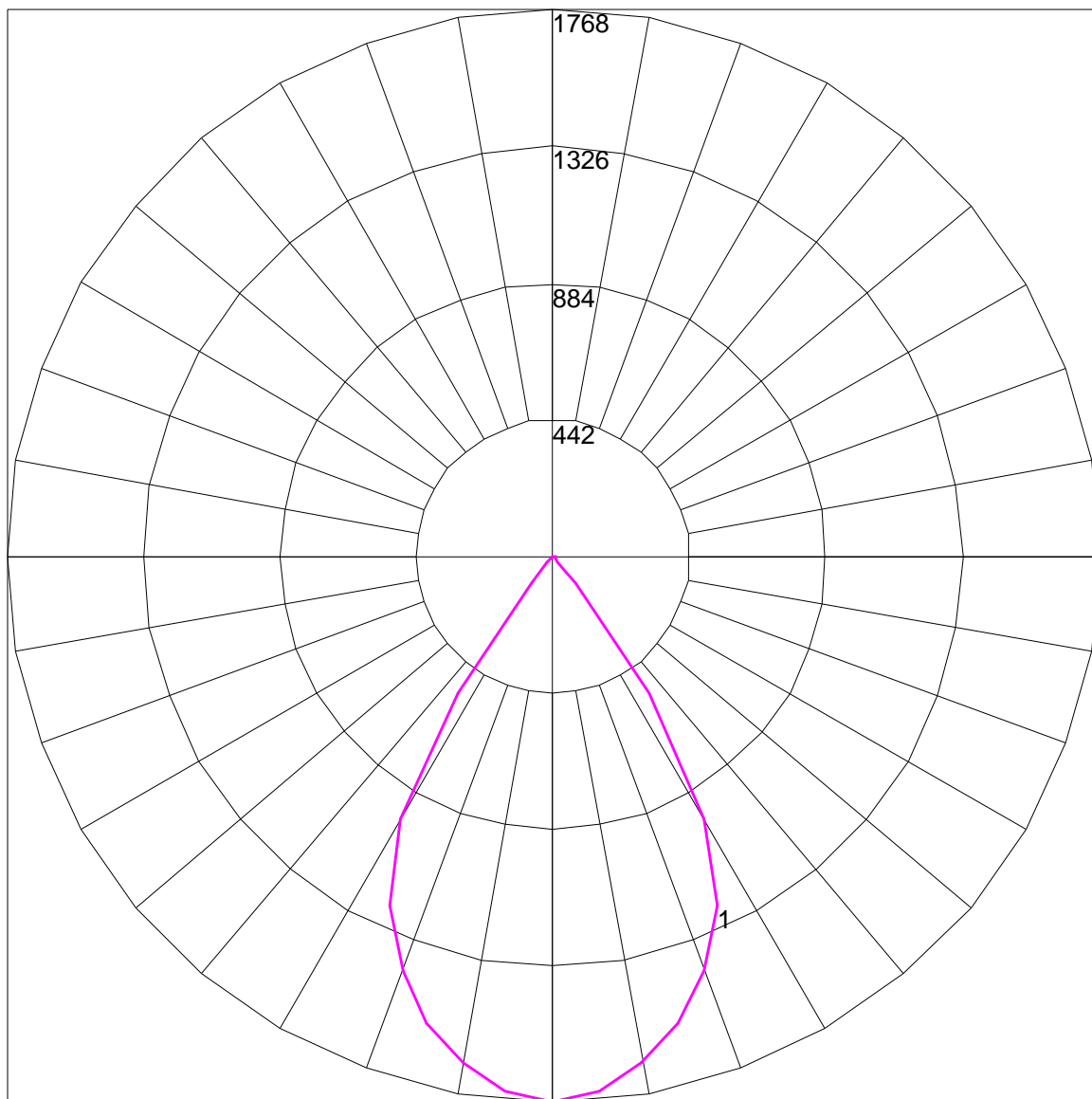
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	104	100	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	85	88	86	83	82
4	98	91	85	81	96	90	85	81	87	83	80	86	82	79	84	81	78	77
5	93	85	80	75	92	84	79	75	82	78	74	81	77	74	79	76	73	72
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	70	66	83	75	69	65	74	69	65	72	68	65	71	67	64	63
8	80	71	65	61	79	71	65	61	70	65	61	69	64	61	68	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

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POLAR GRAPH



Maximum Candela = 1767.919 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)