

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_4 ~ SR2MRX-XT20LE1-XD2FXXK-XNMWSO.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00544\_4\_M-20L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 2/20/2017  
[UPDATE] 4/19/2017  
[LUMCAT] SR2MRx-XT20L-E1-xD2F-xxK-XN-MW-SO  
[LUMINAIRE] Nom. 2" Round or Square Trim Downlight, Xtra Narrow Beam  
[OTHER] Matte White Trim, Solite lens  
[OTHER] 17.9 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: SR2MO-XT-series  
[OTHER] For Remodel/Retrofit Housing: SR2MR-XT-Series  
[OTHER] For RD2F or SD2F 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	1820
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	49
Total Luminaire Watts	37.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.32
Spacing Criterion (90-270)	0.34
Spacing Criterion (Diagonal)	0.34
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.24 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00544\_4 ~ SR2MRX-XT20LE1-XD2FXXK-XNMWSO.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	37685	36226	49307
55	15903	14643	19715
65	12727	10434	13415
75	4595	6446	4667
85	7544	3209	6193

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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>	7843.925	7843.925	7843.925	7843.925	7843.925
<b>5</b>	6325.692	6251.982	6263.943	6295.108	6353.652
<b>10</b>	3299.956	3165.336	3155.900	3354.065	3618.427
<b>15</b>	1607.931	1537.354	1546.194	1627.062	1795.994
<b>20</b>	1001.050	986.051	989.252	1017.988	1081.124
<b>25</b>	839.444	833.613	836.767	830.267	837.541
<b>30</b>	668.781	672.218	667.381	652.376	647.690
<b>35</b>	409.203	412.880	410.761	404.002	415.824
<b>40</b>	194.688	193.468	197.917	207.234	229.629
<b>45</b>	107.478	103.767	103.315	122.843	140.624
<b>50</b>	57.377	55.560	56.315	72.289	78.896
<b>55</b>	36.790	35.550	33.875	41.101	45.610
<b>60</b>	30.158	29.821	26.942	30.798	35.424
<b>65</b>	21.693	20.688	17.785	20.104	22.867
<b>70</b>	13.628	12.079	12.619	11.968	11.525
<b>75</b>	4.797	5.048	6.729	5.242	4.872
<b>80</b>	2.100	2.194	2.395	2.109	2.751
<b>85</b>	2.652	2.860	1.128	2.645	2.177
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1016.46	N.A.	55.80
0-30	1399.28	N.A.	76.90
0-40	1659.46	N.A.	91.20
0-60	1791.37	N.A.	98.40
0-80	1818.55	N.A.	99.90
0-90	1820.4	N.A.	100.00
10-90	1309.07	N.A.	71.90
20-40	643.00	N.A.	35.30
20-50	737.23	N.A.	40.50
40-70	152.37	N.A.	8.40
60-80	27.18	N.A.	1.50
70-80	6.72	N.A.	0.40
80-90	1.85	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	1820.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	511.33
10-20	505.12
20-30	382.83
30-40	260.18
40-50	94.22
50-60	37.68
60-70	20.46
70-80	6.72
80-90	1.85
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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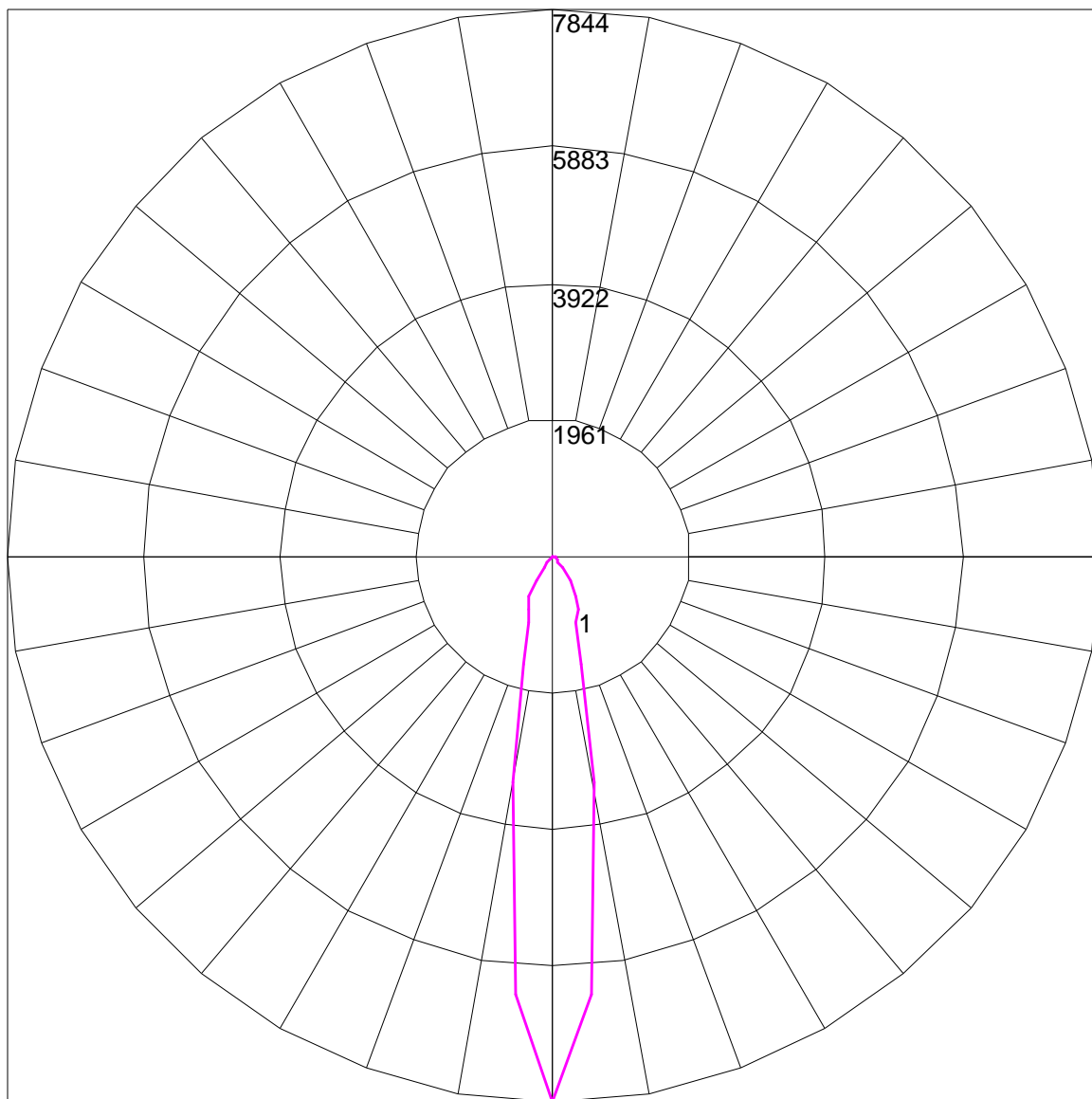
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	107	105	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	91	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	85	98	92	88	84	90	86	83	88	85	82	86	83	81	80
5	96	88	83	80	94	88	83	79	86	82	78	84	81	78	83	80	77	76
6	92	84	79	75	91	83	79	75	82	78	74	81	77	74	79	76	74	72
7	88	80	75	72	87	80	75	71	79	74	71	77	74	71	76	73	70	69
8	85	77	72	68	84	76	72	68	75	71	68	74	70	68	74	70	67	66
9	82	74	69	65	81	73	69	65	73	68	65	72	68	65	71	67	65	63
10	79	71	66	63	78	71	66	63	70	66	63	69	65	62	68	65	62	61

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POLAR GRAPH



Maximum Candela = 7843.925 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)