

**IES INDOOR REPORT**
**PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT13LE1-RDD4X-XXK-XNMWNL.IES**
**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00548\_M-13L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUEDATE] 3/13/2017  
 [UPDATE] 4/19/2017  
 [LUMCAT] SR4MRx-XT13L-E1-RDD4x-xxK-XN-MW-NL  
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile, Xtra Narrow Beam  
 [OTHER] Matte White Trim, No lens  
 [OTHER] 9.5 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, scaled from 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	1156
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	57
Total Luminaire Watts	20.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.18
Spacing Criterion (90-270)	0.18
Spacing Criterion (Diagonal)	0.20
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 ~ SR4MX-XT13LE1-RDD4X-XXK-XNMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	191	214	263
55	150	291	152
65	352	329	221
75	322	469	328
85	1156	1257	943

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT13LE1-RDD4X-XXK-XNMWNL.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>	18741.599	18741.599	18741.599	18741.599	18741.599
<b>5</b>	8636.524	7980.674	8588.125	8458.580	9509.077
<b>10</b>	1341.069	1265.896	1363.920	1308.328	1467.558
<b>15</b>	475.517	471.142	478.111	464.699	471.303
<b>20</b>	384.631	378.942	375.601	380.529	381.126
<b>25</b>	372.131	374.217	366.293	363.219	367.021
<b>30</b>	355.659	350.674	353.948	360.813	359.721
<b>35</b>	199.954	201.670	220.204	204.678	240.555
<b>40</b>	15.686	6.270	12.278	17.669	17.248
<b>45</b>	1.303	2.141	1.455	1.694	1.789
<b>50</b>	0.844	2.094	1.277	1.398	2.514
<b>55</b>	0.829	2.118	1.604	1.235	0.840
<b>60</b>	1.332	2.127	1.358	1.064	0.497
<b>65</b>	1.431	1.980	1.338	1.230	0.898
<b>70</b>	0.837	1.834	0.996	0.924	1.704
<b>75</b>	0.801	2.321	1.169	1.162	0.816
<b>80</b>	0.998	2.437	1.474	1.006	0.986
<b>85</b>	0.970	1.539	1.054	0.652	0.791
<b>90</b>	0.820	0.517	1.039	0.178	1.303

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT13LE1-RDD4X-XXK-XNMWNL.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	856.09	N.A.	74.10
0-30	1026.16	N.A.	88.80
0-40	1147.24	N.A.	99.20
0-60	1151.98	N.A.	99.70
0-80	1154.79	N.A.	99.90
0-90	1155.94	N.A.	100.00
10-90	477.23	N.A.	41.30
20-40	291.15	N.A.	25.20
20-50	294.58	N.A.	25.50
40-70	6.10	N.A.	0.50
60-80	2.80	N.A.	0.20
70-80	1.45	N.A.	0.10
80-90	1.16	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	1155.94	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	678.71
10-20	177.38
20-30	170.07
30-40	121.08
40-50	3.43
50-60	1.32
60-70	1.36
70-80	1.45
80-90	1.16
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT13LE1-RDD4X-XXK-XNMWNL.IES

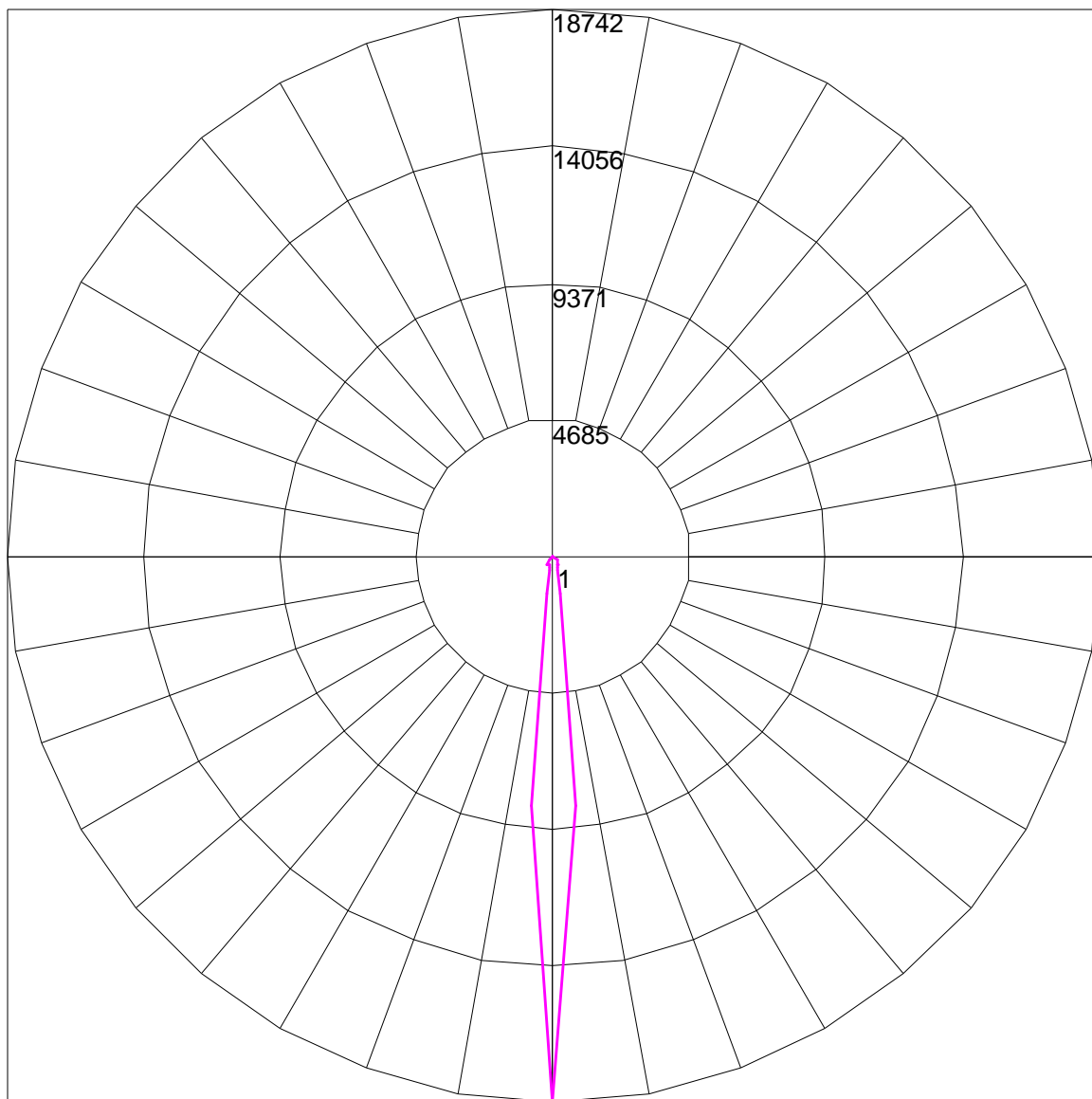
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	113	111	110	108	107	106	105	104	103	102	100	99	99	97
2	112	108	106	103	110	107	104	102	104	102	100	101	99	98	98	97	96	94
3	109	104	101	98	107	103	100	97	100	98	96	98	96	94	96	94	93	92
4	106	101	97	94	104	100	96	94	98	95	93	96	93	92	94	92	91	89
5	103	97	94	91	102	97	93	90	95	92	90	94	91	89	92	90	88	87
6	100	95	91	88	99	94	90	88	93	90	87	91	89	87	90	88	86	85
7	98	92	88	86	97	92	88	85	91	87	85	90	87	85	89	86	84	83
8	96	90	86	84	95	89	86	83	89	85	83	88	85	83	87	84	83	82
9	94	88	84	82	93	87	84	82	87	84	81	86	83	81	85	83	81	80
10	92	86	82	80	91	86	82	80	85	82	80	84	82	80	84	81	79	79

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT13LE1-RDD4X-XXK-XNMWNL.IES

POLAR GRAPH



Maximum Candela = 18741.599 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)