

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT10LE1-RDD4X-XXK-XNMWNL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00548\_M-10L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUEDATE] 3/13/2017  
[UPDATE] 4/19/2017  
[LUMCAT] SR4MRx-XT10L-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 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 20L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	858
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	58
Total Luminaire Watts	14.8
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-XT10LE1-RDD4X-XXK-XNMWNL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	142	159	195
55	112	216	113
65	261	244	164
75	239	348	243
85	858	934	700

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00548 ~ SR4MX-XT10LE1-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>	13912.033	13912.033	13912.033	13912.033	13912.033
<b>5</b>	6410.958	5924.116	6375.031	6278.869	7058.661
<b>10</b>	995.486	939.684	1012.449	971.182	1089.379
<b>15</b>	352.980	349.732	354.906	344.950	349.852
<b>20</b>	285.515	281.292	278.812	282.469	282.913
<b>25</b>	276.236	277.784	271.902	269.621	272.442
<b>30</b>	264.009	260.308	262.738	267.834	267.024
<b>35</b>	148.427	149.701	163.459	151.934	178.566
<b>40</b>	11.644	4.654	9.114	13.116	12.803
<b>45</b>	0.967	1.589	1.080	1.257	1.328
<b>50</b>	0.627	1.555	0.948	1.038	1.866
<b>55</b>	0.616	1.572	1.191	0.917	0.623
<b>60</b>	0.989	1.579	1.008	0.790	0.369
<b>65</b>	1.062	1.470	0.993	0.913	0.667
<b>70</b>	0.621	1.361	0.739	0.686	1.265
<b>75</b>	0.595	1.723	0.868	0.862	0.606
<b>80</b>	0.741	1.809	1.094	0.746	0.732
<b>85</b>	0.720	1.142	0.783	0.484	0.587
<b>90</b>	0.609	0.384	0.772	0.132	0.967

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Zone	Lumens	%Lamp	%Fixt
0-20	635.48	N.A.	74.10
0-30	761.73	N.A.	88.80
0-40	851.61	N.A.	99.20
0-60	855.13	N.A.	99.70
0-80	857.21	N.A.	99.90
0-90	858.07	N.A.	100.00
10-90	354.25	N.A.	41.30
20-40	216.12	N.A.	25.20
20-50	218.67	N.A.	25.50
40-70	4.53	N.A.	0.50
60-80	2.08	N.A.	0.20
70-80	1.07	N.A.	0.10
80-90	0.86	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	858.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	503.81
10-20	131.67
20-30	126.24
30-40	89.88
40-50	2.54
50-60	0.98
60-70	1.01
70-80	1.07
80-90	0.86
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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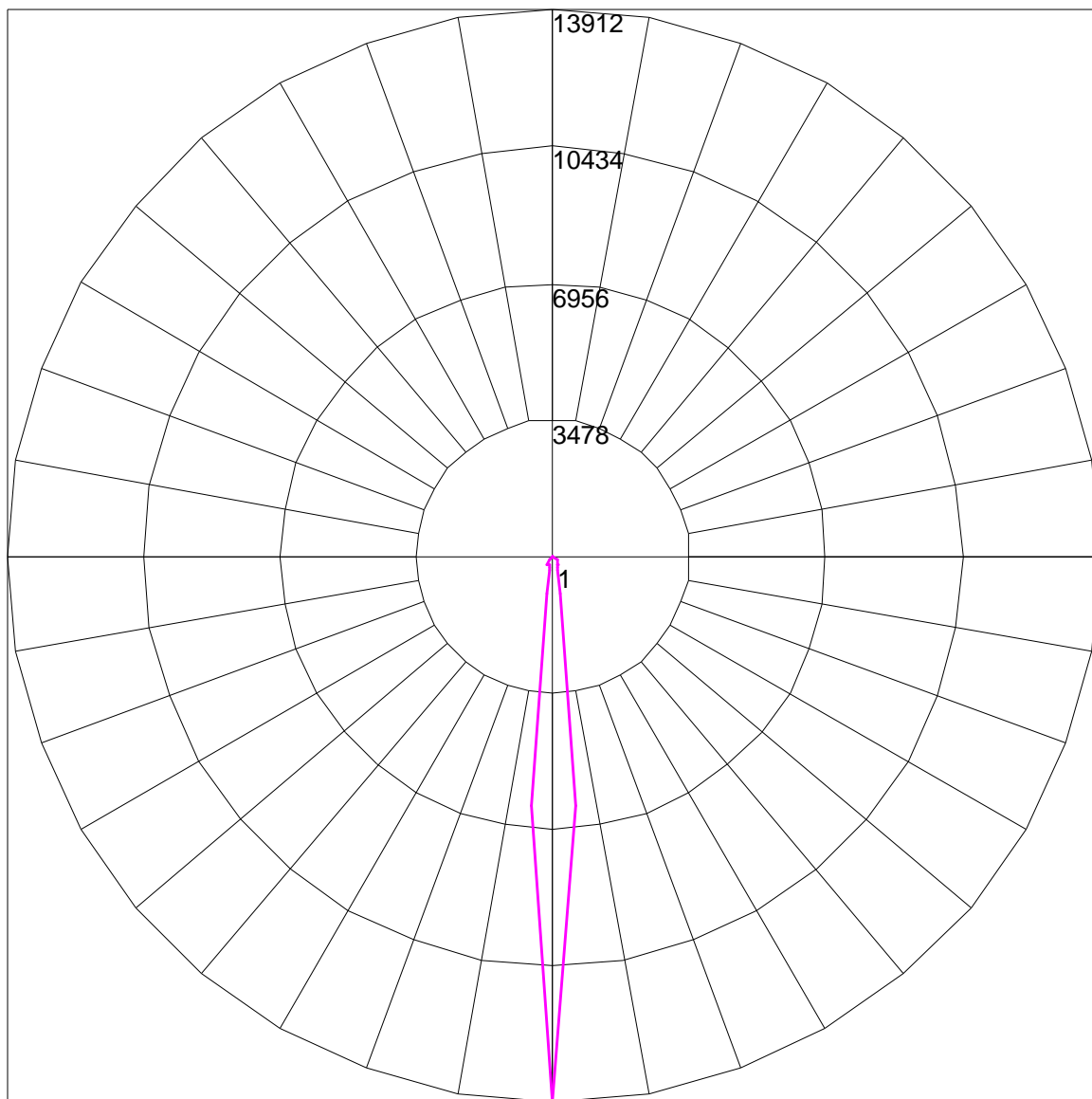
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	101	98	96	98	96	94	96	95	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

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POLAR GRAPH



Maximum Candela = 13912.033 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)