

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP_00548_3 ~ SR4MX-XT20LE1-RDD4X-XXK-NDMWNL.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
 [TEST] SP-00548.3_M-20L
 [TESTLAB] VLS-245-981
 [MANUFAC] Spectrum Lighting
 [ISSUEDATE] 3/13/2017
 [UPDATE] 4/18/2017
 [LUMCAT] SR4MRx-XT20L-E1-RDD4x-xxK-ND-MW-NL
 [LUMINAIRE] Nom. 4" Round Downlight, Deep profile ,Narrow Beam
 [OTHER] Matte White Trim, No lens
 [OTHER] 16.1 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	1552
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	65
Total Luminaire Watts	23.7
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.30
Spacing Criterion (90-270)	0.30
Spacing Criterion (Diagonal)	0.32
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	481	418	497
55	261	293	249
65	366	458	297
75	475	298	363
85	1220	1007	998

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0	9450.075	9450.075	9450.075	9450.075	9450.075
5	7653.690	7877.075	7665.472	7782.115	7555.073
10	3487.371	3663.163	3455.421	3594.354	3424.498
15	1425.411	1482.533	1415.226	1471.718	1426.478
20	751.807	773.648	760.853	781.504	778.062
25	578.887	583.145	578.092	587.472	582.110
30	517.891	518.425	515.764	518.448	517.534
35	287.991	299.499	280.334	290.236	281.593
40	25.330	30.524	19.632	27.946	20.955
45	3.273	2.459	2.843	2.552	3.382
50	2.613	1.811	2.205	1.456	1.458
55	1.438	2.018	1.619	3.254	1.373
60	2.721	2.835	1.653	1.965	2.069
65	1.487	0.957	1.862	1.627	1.207
70	1.430	1.670	1.364	1.273	1.848
75	1.184	1.171	0.742	1.371	0.904
80	0.989	1.327	1.209	0.994	0.812
85	1.023	0.993	0.845	0.898	0.837
90	0.985	0.225	0.740	0.870	0.465

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Zone	Lumens	%Lamp	%Fixt
0-20	1087.68	N.A.	70.10
0-30	1368.73	N.A.	88.20
0-40	1539.86	N.A.	99.20
0-60	1547.86	N.A.	99.80
0-80	1550.75	N.A.	99.90
0-90	1551.72	N.A.	100.00
10-90	942.99	N.A.	60.80
20-40	452.17	N.A.	29.10
20-50	458.32	N.A.	29.50
40-70	9.63	N.A.	0.60
60-80	2.89	N.A.	0.20
70-80	1.26	N.A.	0.10
80-90	0.98	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	1551.72	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	608.73
10-20	478.95
20-30	281.05
30-40	171.13
40-50	6.15
50-60	1.85
60-70	1.63
70-80	1.26
80-90	0.98
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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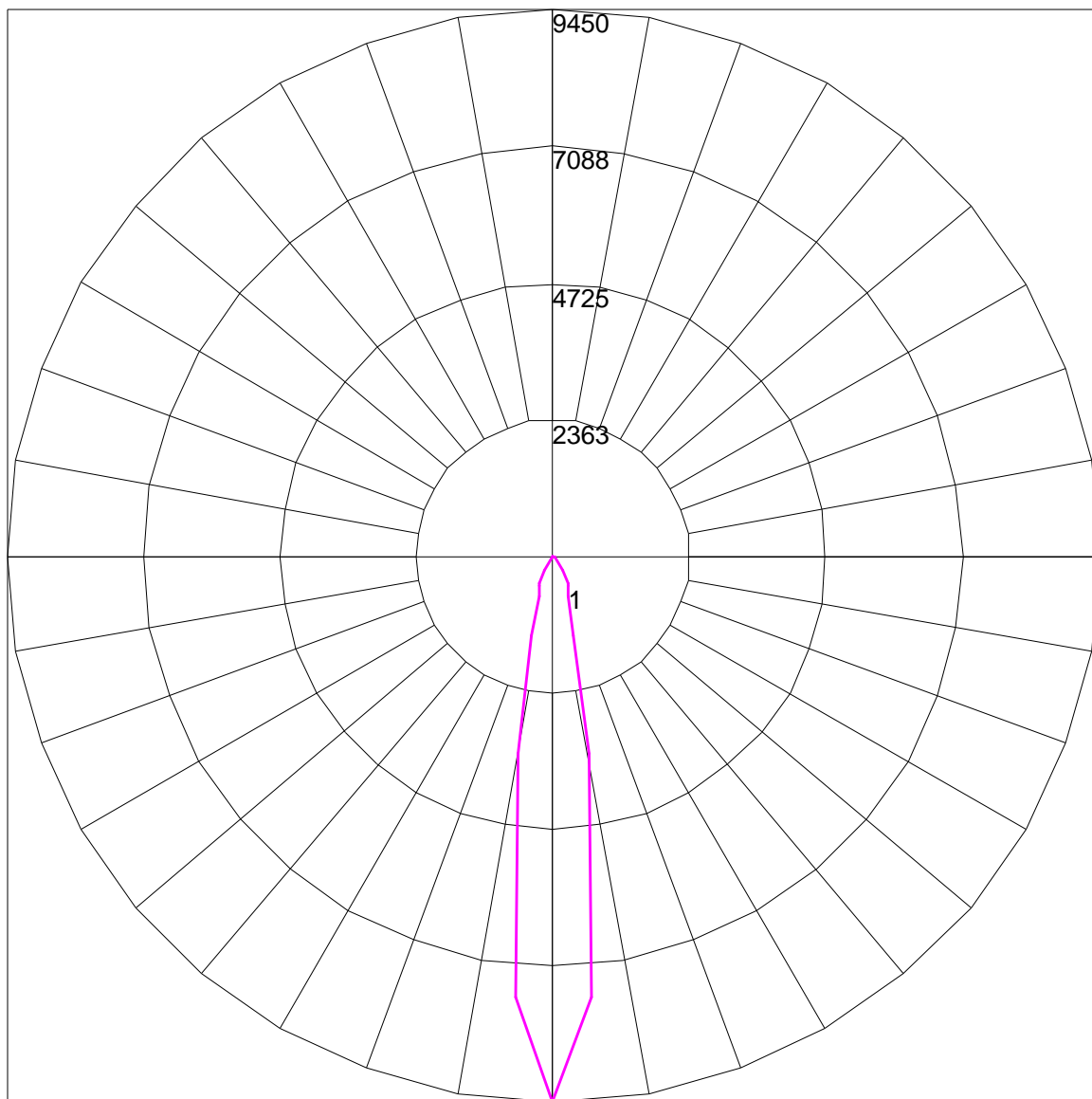
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	112	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	93	90	95	92	89	93	90	88	91	89	87	86
5	100	94	90	87	99	93	89	86	92	88	86	90	87	85	89	86	84	83
6	97	91	86	83	96	90	86	83	89	85	83	87	84	82	86	84	81	80
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	80	78	91	84	80	77	83	80	77	82	79	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	74	73
10	87	80	76	73	86	79	75	73	79	75	73	78	75	72	77	74	72	71

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POLAR GRAPH



Maximum Candela = 9450.075 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)