

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_10 ~ SS4MX-XT30LE1-SDD4X-XXK-WDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00547.10\_M-30L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 3/21/2017

[UPDATE] 4/20/2017

[LUMCAT] SS4MRx-XT30L-E1-SDD4x-xxK-WD-MW-GL

[LUMINAIRE] Nom. 4" Square Downlight, Deep profile, Wide Beam

[OTHER] Matte White Trim, Clear glass lens

[OTHER] 35.8 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: SS4MO-XT-series

[OTHER] For Remodel/Retrofit Housing: SS4MR-XT-Series

[OTHER] For SDD4F or SDD4N 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	2118
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.64
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.20 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_10 ~ SS4MX-XT30LE1-SDD4X-XXK-WDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	30607	34884	31328
55	21682	24971	23384
65	7064	8896	8082
75	3476	3173	1860
85	3975	5108	4526

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP\_00547\_10 ~ SS4MX-XT30LE1-SDD4X-XXK-WDMWGL.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>	4463.391	4463.391	4463.391	4463.391	4463.391
<b>5</b>	4242.323	4283.344	4260.402	4272.618	4239.821
<b>10</b>	3560.169	3654.554	3649.612	3627.298	3532.349
<b>15</b>	2678.714	2812.339	2800.190	2773.756	2644.148
<b>20</b>	1901.418	1997.155	1957.847	1961.697	1868.402
<b>25</b>	1236.532	1356.579	1313.198	1322.151	1210.828
<b>30</b>	610.870	773.765	886.459	736.276	590.805
<b>35</b>	200.173	289.366	517.348	262.129	187.018
<b>40</b>	88.046	101.793	212.104	91.110	87.510
<b>45</b>	78.899	84.027	89.925	81.762	80.759
<b>50</b>	65.674	68.245	65.346	68.566	67.382
<b>55</b>	45.337	51.934	52.214	51.440	48.896
<b>60</b>	22.336	28.946	33.213	28.749	26.123
<b>65</b>	10.884	12.060	13.706	13.684	12.452
<b>70</b>	9.637	8.616	4.666	8.644	9.514
<b>75</b>	3.280	4.015	2.994	3.404	1.755
<b>80</b>	1.316	1.020	1.734	1.325	1.603
<b>85</b>	1.263	1.267	1.623	0.954	1.438
<b>90</b>	1.211	1.198	1.211	0.578	0.935

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Zone	Lumens	%Lamp	%Fixt
0-20	1153.27	N.A.	54.40
0-30	1754.42	N.A.	82.80
0-40	1984.45	N.A.	93.70
0-60	2097.31	N.A.	99.00
0-80	2116.78	N.A.	99.90
0-90	2118.15	N.A.	100.00
10-90	1731.78	N.A.	81.80
20-40	831.19	N.A.	39.20
20-50	900.05	N.A.	42.50
40-70	128.19	N.A.	6.10
60-80	19.47	N.A.	0.90
70-80	4.14	N.A.	0.20
80-90	1.36	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	2118.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	386.37
10-20	766.90
20-30	601.16
30-40	230.03
40-50	68.87
50-60	43.99
60-70	15.33
70-80	4.14
80-90	1.36
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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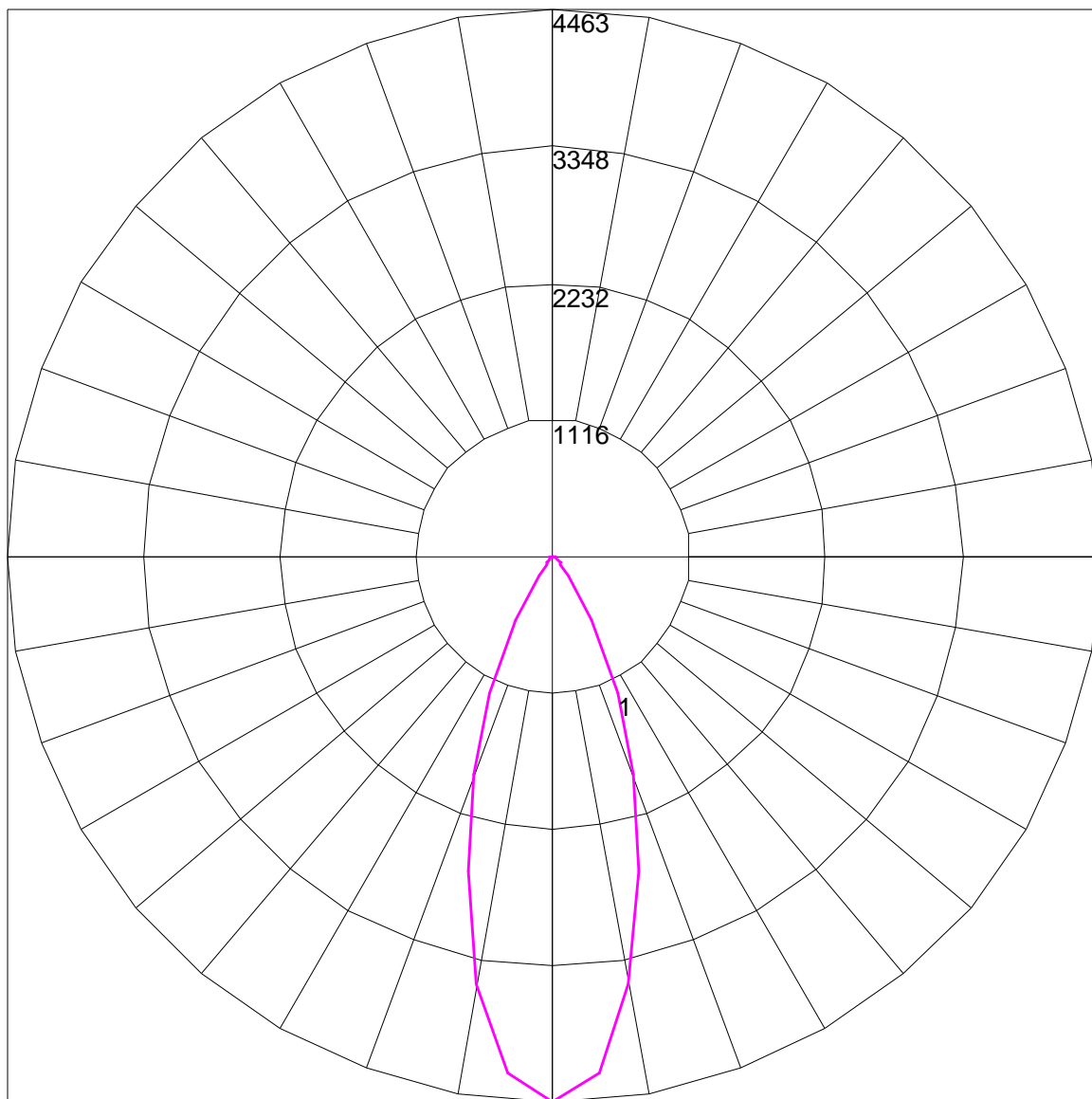
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

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POLAR GRAPH



Maximum Candela = 4463.391 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)