

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_41 ~ SR3DMX-XT30LE1-RDD3X-XXK-NDMWGL.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00545\_41\_M-30L

[TESTLAB] VLS-245-981

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 2/26/2017

[LUMCAT] SR3DMx-XT30L-E1-RDD3x-xxK-ND-MW-GL

[LUMINAIRE] Nominal 3" Round Downlight, Deep profile, Narrow Beam

[OTHER] Matte White Trim, clear glass lens

[OTHER] 23 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: SR3DMO-XT-series

[OTHER] For Remodel/Retrofit Housing: SR3DMR-XT-Series

[OTHER] For RDD3F or RDD3N 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	2713
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	34.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.44
Spacing Criterion (90-270)	0.44
Spacing Criterion (Diagonal)	0.48
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.00 ft
Luminous Width (90-270)	0.29 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_41 ~ SR3DMX-XT30LE1-RDD3X-XXK-NDMWGL.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13556	14992	14236
55	8708	9488	8123
65	6496	7312	7000
75	4911	4533	3450
85	6316	5483	7236

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00545\_41 ~ SR3DMX-XT30LE1-RDD3X-XXK-NDMWGL.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>	8882.981	8882.980	8882.980	8882.980	8882.980
<b>5</b>	8605.165	8670.754	8763.061	8747.280	8720.443
<b>10</b>	5875.150	5871.882	5920.724	5885.051	5866.475
<b>15</b>	3231.402	3257.068	3277.919	3256.919	3233.954
<b>20</b>	2215.640	2215.912	2226.586	2198.931	2171.262
<b>25</b>	1475.268	1476.251	1477.370	1456.868	1446.900
<b>30</b>	850.427	841.405	842.770	828.542	807.882
<b>35</b>	223.032	220.864	216.911	214.431	210.111
<b>40</b>	75.865	77.271	77.169	79.347	79.251
<b>45</b>	59.691	60.840	66.012	62.992	62.685
<b>50</b>	49.031	47.682	47.967	48.605	45.998
<b>55</b>	31.102	29.022	33.889	28.093	29.015
<b>60</b>	28.198	25.238	25.421	23.345	23.441
<b>65</b>	17.097	17.400	19.242	17.157	18.423
<b>70</b>	10.179	11.988	12.406	11.295	10.412
<b>75</b>	7.915	6.375	7.306	6.514	5.561
<b>80</b>	3.800	2.809	5.076	3.595	5.423
<b>85</b>	3.428	2.274	2.976	1.960	3.927
<b>90</b>	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1725.3	N.A.	63.60
0-30	2402.41	N.A.	88.60
0-40	2606.64	N.A.	96.10
0-60	2684.81	N.A.	99.00
0-80	2710.31	N.A.	99.90
0-90	2712.89	N.A.	100.00
10-90	1980.34	N.A.	73.00
20-40	881.34	N.A.	32.50
20-50	929.74	N.A.	34.30
40-70	96.03	N.A.	3.50
60-80	25.50	N.A.	0.90
70-80	7.64	N.A.	0.30
80-90	2.58	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	2712.89	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	732.55
10-20	992.75
20-30	677.10
30-40	204.24
40-50	48.40
50-60	29.77
60-70	17.86
70-80	7.64
80-90	2.58
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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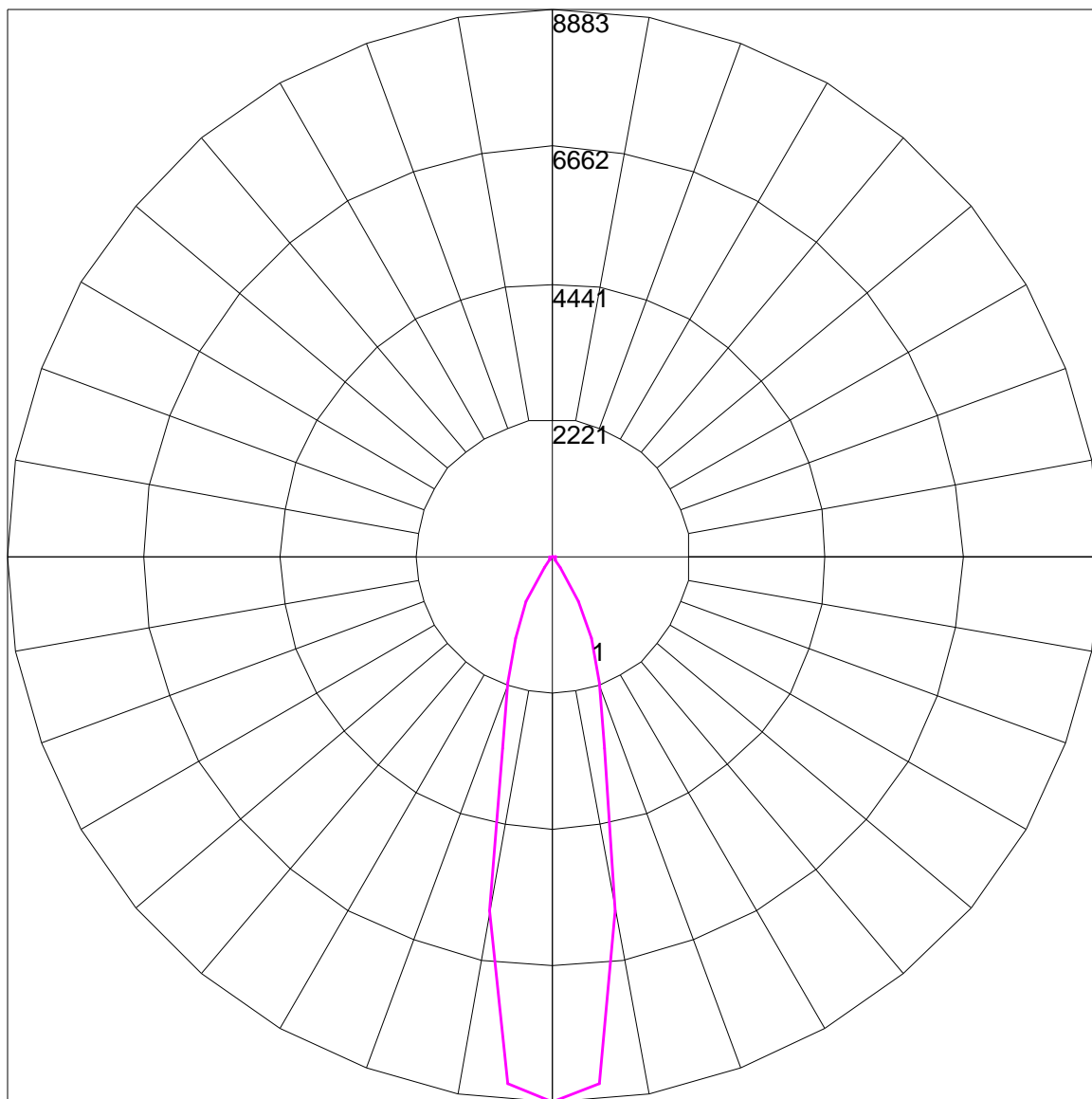
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	102	100	108	104	101	98	101	98	96	98	96	94	95	94	92	91
3	106	100	96	93	104	99	95	92	96	93	91	94	92	89	92	90	88	87
4	102	96	91	88	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	96	90	86	83	89	85	82	87	84	81	86	83	81	79
6	94	87	82	79	93	87	82	79	85	81	78	84	80	78	83	80	77	76
7	91	84	79	76	90	83	79	75	82	78	75	81	77	75	80	77	74	73
8	88	80	76	72	87	80	75	72	79	75	72	78	74	72	77	74	71	70
9	85	77	73	70	84	77	73	69	76	72	69	75	72	69	75	71	69	68
10	82	75	70	67	82	74	70	67	74	70	67	73	69	67	72	69	66	65

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POLAR GRAPH



Maximum Candela = 8882.981 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)