

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00580\_6 ~ C0310XT-7LXXK-WDEX-SOXXMW (DOWNLIGHT ONLY).IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
[TEST] SP-00580\_6\_M-7L  
[TESTLAB] VLS-245-981  
[MANUFAC] Spectrum Lighting  
[ISSUE DATE] 10/18/2017  
[UPDATE] 1/25/2017  
[LUMCAT] C0310XT-7L-xxK-WD-EX-SO-xx-MW (Downlight Only)  
[LUMINAIRE] Nom. 3" Diam. x 10"H Direct Cylinder  
[OTHER] This file is for Downlight Only;  
[OTHER] To be used w/ companion uplight only file: SP-00623 series  
[OTHER] This allows separate Up/Down Illumination Calcs to be run  
[OTHER] Wide beam, Regressed Solite Lens  
[OTHER] Downlight: 50 Degree Beam Angle  
[OTHER] Trim: Matte White  
[LAMP] N/A  
[LAMPCAT] N/A, 19mm LES  
[OTHER] Total Luminaire Watts is approximate  
[OTHER] LEDXT lumen output is the same for all available CCT's  
[OTHER] This report prepared by Spectrum Lighting

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	448
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	72
Total Luminaire Watts	6.2
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.80
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.78
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.25 ft (Diameter)
Luminous Width (90-270)	0.25 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00580\_6 ~ C0310XT-7LXXK-WDEX-SOXXMW (DOWNLIGHT ONLY).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3792	3918	4335
55	1067	1132	791
65	900	938	778
75	955	689	628
85	1744	2260	1699

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	645.778	645.778	645.778	645.778	645.778
<b>2.5</b>	641.263	640.709	640.630	641.122	639.962
<b>5.0</b>	636.748	635.640	635.482	636.466	634.146
<b>7.5</b>	614.529	615.590	614.390	618.335	615.865
<b>10.0</b>	592.310	595.538	593.299	600.204	597.583
<b>12.5</b>	561.317	564.688	561.406	570.641	568.156
<b>15.0</b>	530.324	533.837	529.512	541.078	538.727
<b>17.5</b>	484.892	490.639	487.012	500.273	497.423
<b>20.0</b>	439.460	447.442	444.513	459.468	456.118
<b>22.5</b>	380.886	390.250	388.171	405.274	401.791
<b>25.0</b>	322.312	333.059	331.829	351.081	347.464
<b>27.5</b>	258.682	268.670	268.914	286.542	284.237
<b>30.0</b>	195.052	204.280	205.999	222.003	221.011
<b>32.5</b>	145.298	152.718	153.701	166.790	166.678
<b>35.0</b>	95.543	101.156	101.403	111.576	112.345
<b>37.5</b>	66.409	69.335	70.560	76.934	78.181
<b>40.0</b>	37.275	37.515	39.717	42.292	44.017
<b>42.5</b>	24.757	24.473	26.182	28.076	29.004
<b>45.0</b>	12.239	11.430	12.646	13.859	13.991
<b>47.5</b>	8.331	7.910	8.662	9.667	9.403
<b>50.0</b>	4.423	4.389	4.677	5.473	4.816
<b>52.5</b>	3.608	3.990	3.821	4.175	3.444
<b>55.0</b>	2.793	3.591	2.963	2.877	2.071
<b>57.5</b>	2.576	2.986	2.752	2.362	1.852
<b>60.0</b>	2.360	2.382	2.539	1.847	1.631
<b>62.5</b>	2.048	1.903	2.175	1.707	1.566
<b>65.0</b>	1.736	1.423	1.810	1.567	1.500
<b>67.5</b>	1.484	1.354	1.529	1.479	1.411
<b>70.0</b>	1.232	1.283	1.248	1.391	1.323
<b>72.5</b>	1.181	1.105	1.031	1.070	1.033
<b>75.0</b>	1.128	0.928	0.814	0.749	0.742
<b>77.5</b>	0.937	0.936	0.919	0.819	0.796
<b>80.0</b>	0.745	0.944	1.024	0.889	0.851
<b>82.5</b>	0.719	1.034	0.962	0.991	0.764
<b>85.0</b>	0.694	1.123	0.899	1.092	0.676
<b>87.5</b>	0.782	0.737	0.861	0.717	0.684
<b>90.0</b>	0.870	0.350	0.823	0.342	0.691

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Zone	Lumens	%Lamp	%Fixt
0-20	207.03	N.A.	46.20
0-30	358.30	N.A.	80.00
0-40	428.33	N.A.	95.60
0-60	444.45	N.A.	99.20
0-80	447.14	N.A.	99.80
0-90	448.07	N.A.	100.00
10-90	388.83	N.A.	86.80
20-40	221.30	N.A.	49.40
20-50	234.55	N.A.	52.30
40-70	17.78	N.A.	4.00
60-80	2.69	N.A.	0.60
70-80	1.04	N.A.	0.20
80-90	0.92	N.A.	0.20
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	448.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	59.24
10-20	147.79
20-30	151.27
30-40	70.03
40-50	13.25
50-60	2.87
60-70	1.66
70-80	1.04
80-90	0.92
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

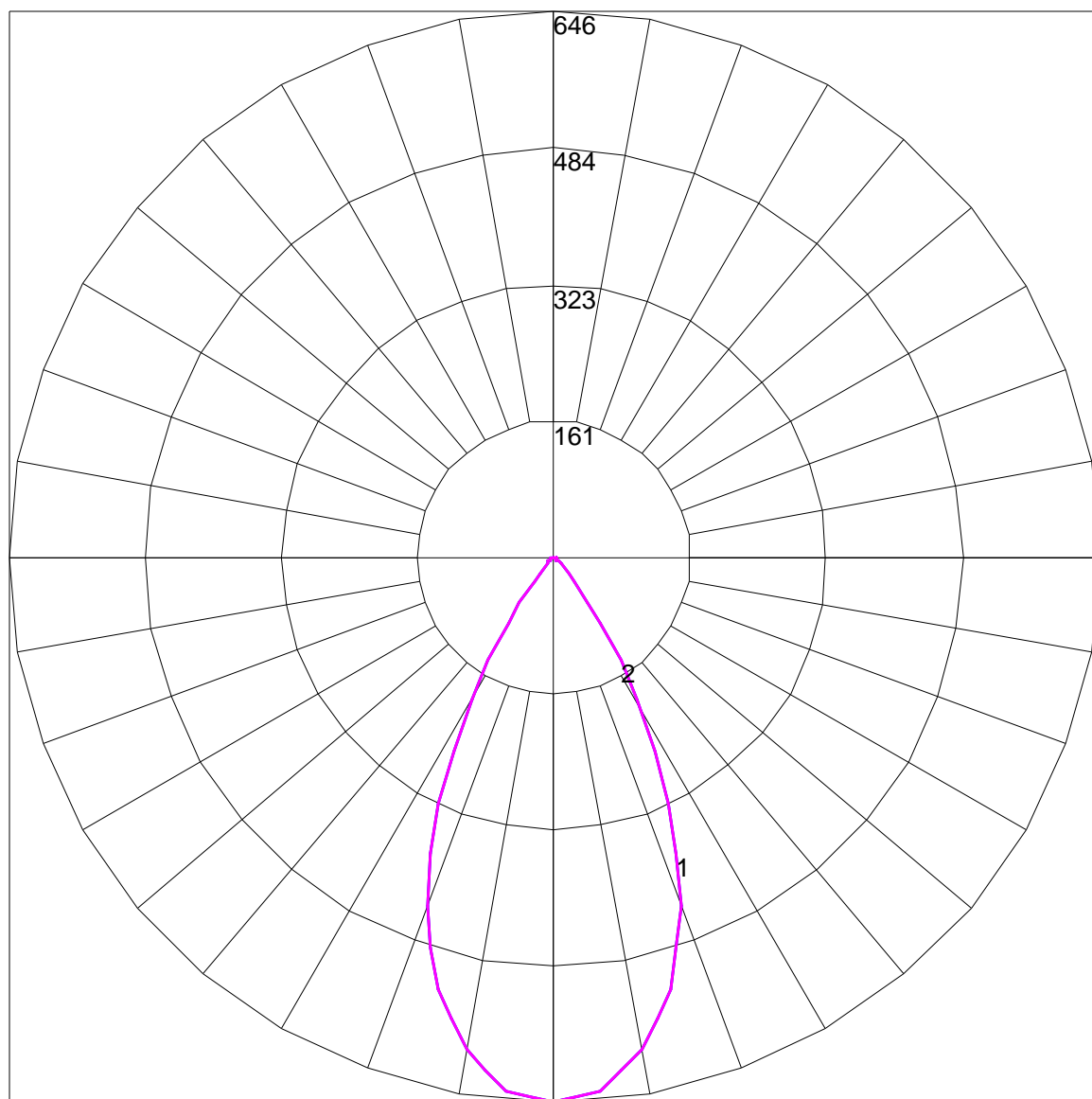
Effective Floor Cavity Reflectance 0.20

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	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	106	102	99	96	99	96	94	96	94	92	93	92	90	88
3	104	98	93	89	102	96	92	88	94	90	87	91	88	86	89	87	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	94	87	81	77	93	86	81	77	84	79	76	82	78	75	81	77	75	73
6	90	82	76	72	89	81	76	72	79	75	71	78	74	71	77	73	70	69
7	86	77	72	68	85	77	71	68	75	71	67	74	70	67	73	69	67	65
8	82	73	68	64	81	73	68	64	72	67	64	71	66	63	70	66	63	62
9	79	70	64	60	78	69	64	60	68	64	60	67	63	60	67	63	60	59
10	75	66	61	57	74	66	61	57	65	60	57	64	60	57	64	60	57	56

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## POLAR GRAPH



Maximum Candela = 645.778 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)

# 2 - Vertical Plane Through Horizontal Angles (0 - 180)