

**IES INDOOR REPORT**

**PHOTOMETRIC FILENAME : SP-00580\_5 ~ C0310XT-7LXXK-NDEX-GLXXMW (DOWNLIGHT ONLY).IES**

**DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002  
 [TEST] SP-00580\_5\_M-7L  
 [TESTLAB] VLS-245-981  
 [MANUFAC] Spectrum Lighting  
 [ISSUE DATE] 10/18/2017  
 [UPDATE] 2/7/2018  
 [LUMCAT] C0310XT-7L-xxK-ND-EX-GL-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] Medium Beam, Clear Glass Lens  
 [OTHER] Downlight: 24.5 Degree Beam Angle  
 [OTHER] Trim: Matte White  
 [LAMP] N/A  
 [LAMPCAT] N/A, 19mm LES  
 [OTHER] Used .88 multiplier to convert 'NL' candela values to 'GL'  
 [OTHER] in original IES file  
 [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	447
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)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.21 ft (Diameter)
Luminous Width (90-270)	0.21 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00580\_5 ~ C0310XT-7LXXK-NDEX-GLXXMW (DOWNLIGHT ONLY).IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	386	497	465
55	536	452	582
65	748	775	638
75	1010	1158	1016
85	2059	3264	2647

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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>	1855.475	1855.475	1855.475	1855.475	1855.475
<b>2.5</b>	1793.243	1805.626	1804.380	1809.476	1790.471
<b>5.0</b>	1731.010	1755.776	1753.285	1763.474	1725.466
<b>7.5</b>	1469.956	1503.433	1468.301	1483.150	1434.031
<b>10.0</b>	1208.902	1251.088	1183.317	1202.825	1142.595
<b>12.5</b>	895.582	930.250	887.260	906.836	866.506
<b>15.0</b>	582.263	609.413	591.202	610.846	590.417
<b>17.5</b>	464.803	486.900	472.666	486.860	470.023
<b>20.0</b>	347.344	364.387	354.130	362.874	349.628
<b>22.5</b>	272.970	287.757	279.265	287.257	275.129
<b>25.0</b>	198.597	211.127	204.401	211.638	200.630
<b>27.5</b>	140.014	151.300	145.094	151.976	143.198
<b>30.0</b>	81.430	91.472	85.786	92.314	85.767
<b>32.5</b>	45.036	51.471	46.902	51.756	49.365
<b>35.0</b>	8.642	11.470	8.018	11.197	12.963
<b>37.5</b>	4.832	6.327	4.502	6.141	7.045
<b>40.0</b>	1.021	1.183	0.985	1.086	1.127
<b>42.5</b>	0.942	1.062	1.048	1.185	1.084
<b>45.0</b>	0.862	0.941	1.111	1.283	1.040
<b>47.5</b>	0.950	0.907	1.052	1.075	0.959
<b>50.0</b>	1.036	0.874	0.993	0.869	0.877
<b>52.5</b>	1.004	0.916	0.906	0.921	0.966
<b>55.0</b>	0.972	0.956	0.819	0.973	1.054
<b>57.5</b>	0.904	1.008	0.842	0.848	0.996
<b>60.0</b>	0.836	1.059	0.865	0.723	0.938
<b>62.5</b>	0.918	0.944	0.950	0.746	0.895
<b>65.0</b>	0.999	0.828	1.035	0.768	0.852
<b>67.5</b>	1.014	0.833	0.954	0.874	0.927
<b>70.0</b>	1.028	0.839	0.872	0.980	1.003
<b>72.5</b>	0.927	0.888	0.910	1.030	0.916
<b>75.0</b>	0.826	0.936	0.947	1.081	0.831
<b>77.5</b>	0.861	0.938	0.884	1.022	0.959
<b>80.0</b>	0.895	0.940	0.822	0.964	1.086
<b>82.5</b>	0.731	0.851	0.861	0.876	0.907
<b>85.0</b>	0.567	0.761	0.899	0.787	0.729
<b>87.5</b>	0.541	0.808	0.835	0.578	0.860
<b>90.0</b>	0.514	0.856	0.770	0.369	0.990

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Zone	Lumens	%Lamp	%Fixt
0-20	330.17	N.A.	73.90
0-30	425.94	N.A.	95.40
0-40	442.16	N.A.	99.00
0-60	443.79	N.A.	99.40
0-80	445.67	N.A.	99.80
0-90	446.53	N.A.	100.00
10-90	299.71	N.A.	67.10
20-40	111.99	N.A.	25.10
20-50	112.79	N.A.	25.30
40-70	2.52	N.A.	0.60
60-80	1.88	N.A.	0.40
70-80	0.99	N.A.	0.20
80-90	0.86	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	446.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	146.82
10-20	183.35
20-30	95.77
30-40	16.22
40-50	0.80
50-60	0.83
60-70	0.89
70-80	0.99
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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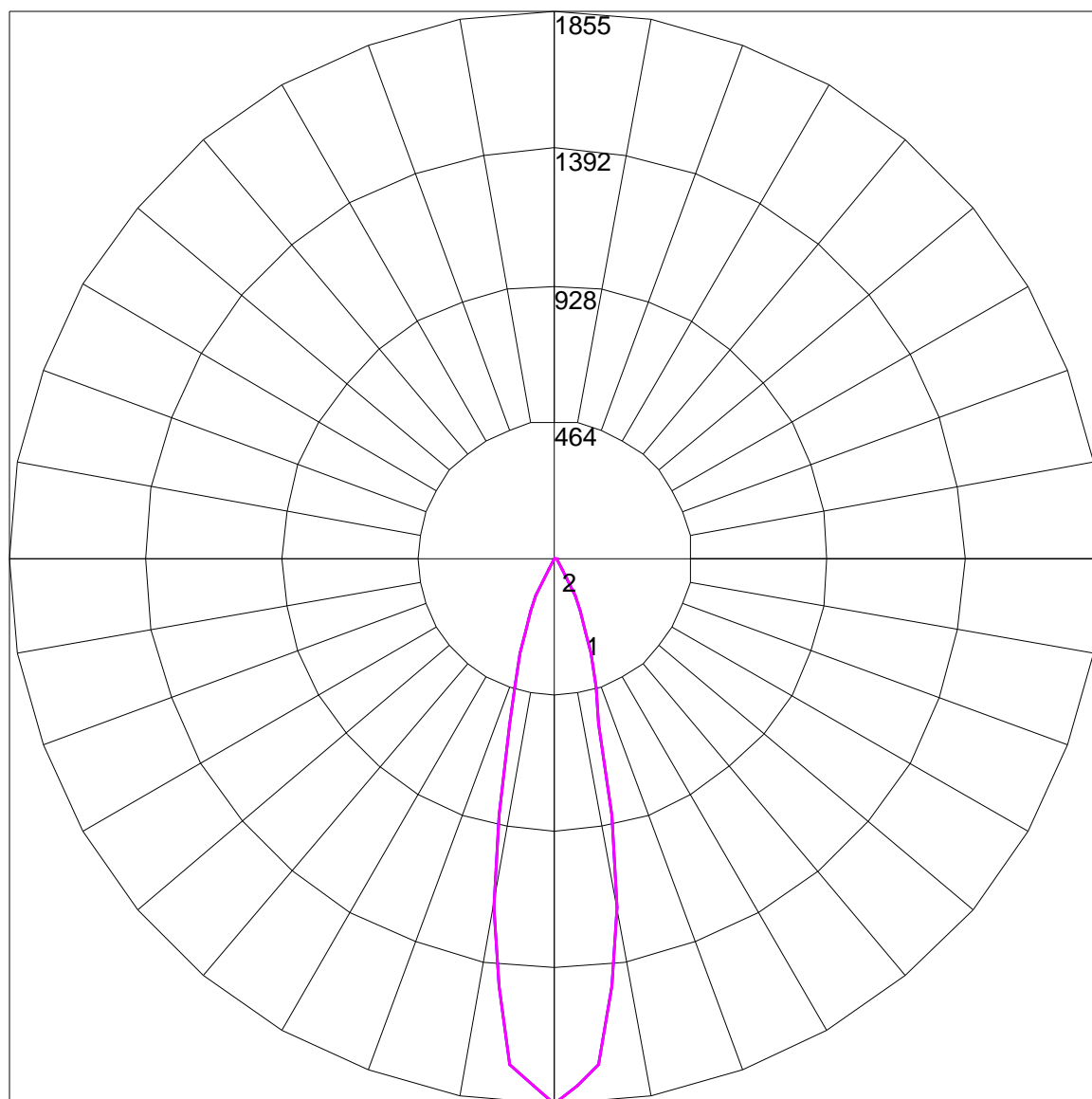
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	109	112	110	109	107	106	105	104	103	102	101	99	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	98	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	87	92	88	86	90	87	85	89	86	84	83
6	97	91	87	83	96	90	86	83	89	85	83	88	85	82	86	84	82	81
7	94	88	83	80	93	87	83	80	86	82	80	85	82	79	84	81	79	78
8	92	85	81	78	91	84	80	78	83	80	77	83	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 = 1855.475 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)