

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-52LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_50\_M-52L

[TESTLAB] Photopia 2017.2.1 see: www.ltiopics.com/ies

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-52L-xxK-XW-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Wide Beam

[OTHER] Integral Flared 3" Matte White (interior) Deep Snoot for Additional Cutoff

[OTHER] Nom. 13" Diam. Cylinder / Nom. 15" Diam Snoot Opening

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] 54.8 Degree Beam Angle, 89.8 Degree Field Angle

[LAMPCAT] LED 1300lm

[LAMP] N/A, 19mm

[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, scaled from 200L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4664
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.88
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-52LXXK-XWEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4285	6462	4448
55	1599	1615	1523
65	1619	1644	1691
75	1643	1672	1630
85	1084	1213	1057

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## CANDELA TABULATION

	<u>0</u>	<u>5</u>	<u>10</u>	<u>15</u>	<u>20</u>	<u>25</u>	<u>30</u>	<u>35</u>	<u>40</u>	<u>45</u>
<b>0</b>	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564
<b>5</b>	5032.191	5158.174	5123.487	5119.002	5162.612	5107.827	5075.213	5140.119	5115.128	5222.636
<b>10</b>	4783.459	4764.913	4757.909	4833.509	4776.616	4806.636	4782.375	4820.504	4775.345	4772.321
<b>15</b>	4408.076	4297.319	4373.436	4313.927	4359.758	4323.985	4313.369	4382.731	4383.200	4367.259
<b>20</b>	3650.085	3657.563	3692.135	3636.570	3635.224	3611.158	3658.215	3632.442	3618.305	3640.502
<b>25</b>	3031.670	3025.331	3042.473	3039.345	3012.825	2959.330	3024.099	3008.429	3013.465	3007.677
<b>30</b>	2115.225	2177.105	2183.542	2172.193	2227.251	2211.024	2294.817	2324.171	2345.330	2331.415
<b>35</b>	1633.570	1631.893	1659.281	1638.021	1581.830	1511.656	1421.979	1351.262	1332.235	1331.101
<b>40</b>	1155.123	1103.222	1034.899	929.016	877.310	869.097	854.129	868.444	841.864	856.188
<b>45</b>	345.740	400.228	456.737	479.222	531.900	532.371	517.769	529.303	508.628	521.414
<b>50</b>	176.491	182.650	182.187	180.627	193.258	218.512	246.774	261.456	277.766	267.374
<b>55</b>	104.684	104.052	104.177	104.099	105.594	104.260	100.352	109.260	102.484	105.734
<b>60</b>	85.186	86.918	84.994	92.581	90.342	86.174	89.229	84.859	87.654	87.958
<b>65</b>	78.073	77.384	78.536	76.718	79.118	82.147	77.769	84.154	86.575	79.282
<b>70</b>	75.975	72.771	71.968	76.664	70.080	72.748	70.070	72.462	67.036	70.210
<b>75</b>	48.539	51.230	53.071	52.595	50.354	49.993	49.208	49.236	51.951	49.371
<b>80</b>	29.762	30.891	30.329	30.381	29.775	29.307	33.028	30.363	32.326	31.083
<b>85</b>	10.782	11.596	10.865	11.690	11.333	11.302	9.425	11.437	10.280	12.069
<b>90</b>	0.000	0.694	0.894	0.224	0.426	0.416	0.460	0.263	0.694	0.429

## Vert. Angles Horizontal Angles

	<u>50</u>	<u>55</u>	<u>60</u>	<u>65</u>	<u>70</u>	<u>75</u>	<u>80</u>	<u>85</u>	<u>90</u>
<b>0</b>	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564	4987.564
<b>5</b>	5138.588	5230.139	5032.692	5115.989	5060.882	5043.415	5111.457	5091.889	5151.440
<b>10</b>	4754.651	4746.381	4845.290	4785.716	4771.832	4724.012	4719.049	4829.918	4762.576
<b>15</b>	4330.523	4321.348	4371.076	4396.353	4310.249	4320.578	4359.389	4397.804	4339.709
<b>20</b>	3589.154	3600.290	3604.128	3626.144	3665.311	3604.086	3649.856	3609.450	3648.751
<b>25</b>	2993.226	2951.892	2990.465	2978.269	2998.161	3051.508	3000.876	3035.307	3004.596
<b>30</b>	2351.726	2341.635	2307.583	2255.245	2225.036	2155.520	2204.969	2133.162	2126.777
<b>35</b>	1328.904	1358.482	1448.249	1539.962	1568.427	1625.715	1622.241	1626.461	1642.368
<b>40</b>	856.276	874.754	853.499	879.349	890.523	952.325	1011.275	1065.080	1129.648
<b>45</b>	500.440	543.928	524.519	528.713	536.780	475.514	442.437	386.747	358.959
<b>50</b>	268.499	260.304	246.295	217.870	193.960	180.976	185.702	176.654	182.497
<b>55</b>	103.945	108.714	105.703	109.117	104.725	104.887	100.649	102.833	99.681
<b>60</b>	88.496	91.250	91.962	87.992	86.146	88.275	86.845	90.912	89.645
<b>65</b>	82.859	91.244	81.182	83.788	80.616	87.097	78.406	80.241	81.554
<b>70</b>	70.910	68.232	67.327	70.239	72.223	70.216	71.796	72.472	73.273
<b>75</b>	48.022	49.819	50.086	49.481	52.367	51.750	52.601	54.072	48.147
<b>80</b>	28.306	29.424	32.362	28.795	32.783	31.015	31.619	30.820	31.273
<b>85</b>	10.865	12.958	9.922	9.360	12.238	10.863	10.353	11.947	10.514
<b>90</b>	0.299	0.416	0.788	0.289	0.120	0.359	0.198	0.356	0.876

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Zone	Lumens	%Lamp	%Fixt
0-20	1674.34	N.A.	35.90
0-30	3035.3	N.A.	65.10
0-40	3995.77	N.A.	85.70
0-60	4515.51	N.A.	96.80
0-80	4649.15	N.A.	99.70
0-90	4663.66	N.A.	100.00
10-90	4188.72	N.A.	89.80
20-40	2321.43	N.A.	49.80
20-50	2726.48	N.A.	58.50
40-70	599.70	N.A.	12.90
60-80	133.64	N.A.	2.90
70-80	53.69	N.A.	1.20
80-90	14.50	N.A.	0.30
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	4663.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	474.94
10-20	1199.4
20-30	1360.96
30-40	960.46
40-50	405.05
50-60	114.70
60-70	79.96
70-80	53.69
80-90	14.50
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

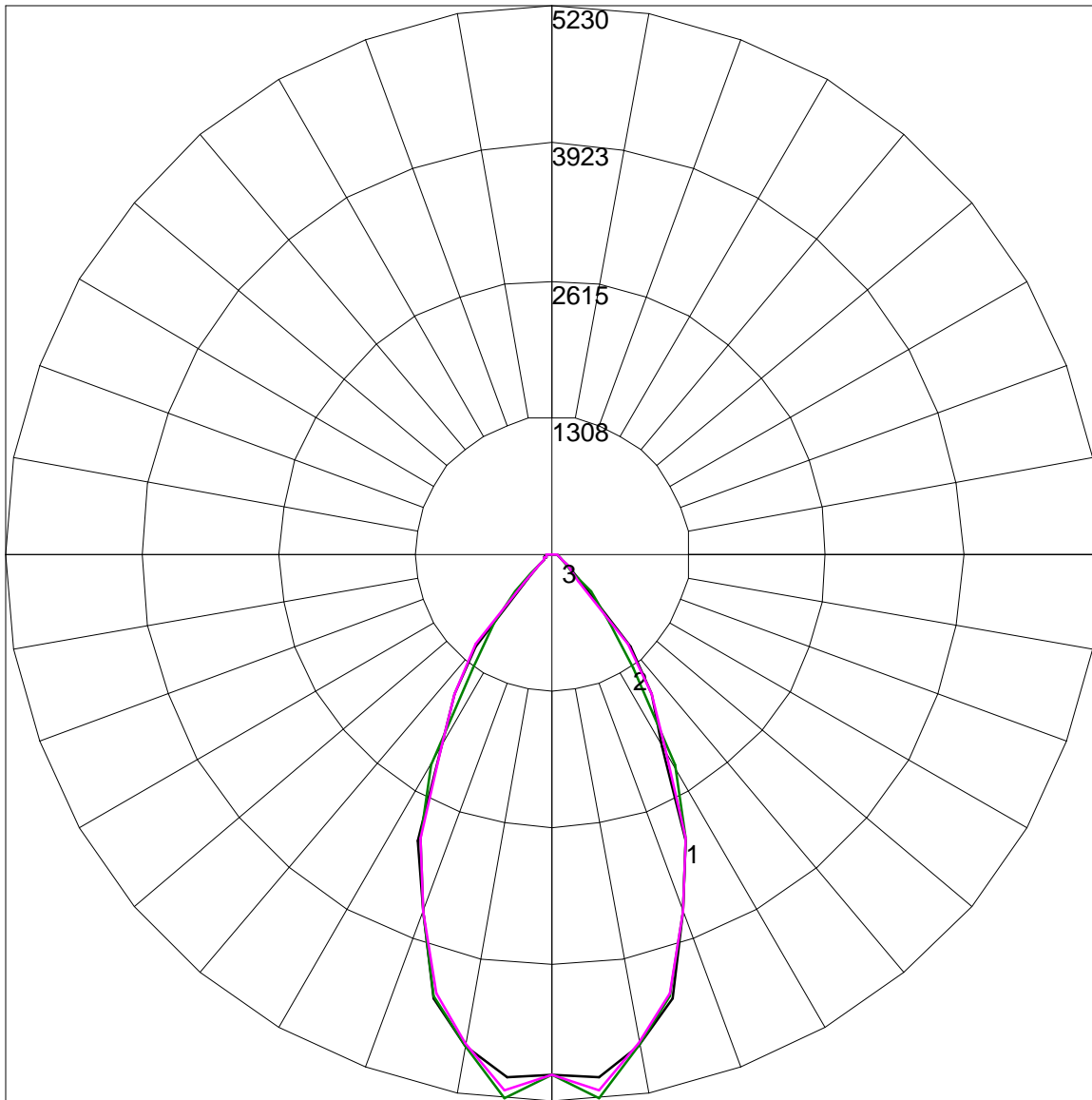
Effective Floor Cavity Reflectance 0.20

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48

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## POLAR GRAPH



Maximum Candela = 5230.139 Located At Horizontal Angle = 55, Vertical Angle = 5

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

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)