

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_42 ~ C1320YKFSXT-52LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_42\_M-52L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.6 Degree Beam Angle, 52.2 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	4839
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	60
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)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_42 ~ C1320YKFSXT-52LXXK-NDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	737	767	789
55	404	462	472
65	527	574	472
75	691	677	712
85	518	483	444

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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>	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205
<b>5</b>	15979.828	15847.657	16062.464	15855.736	15940.485	16164.631	16036.649	15999.539	16007.549	16079.265
<b>10</b>	11780.218	11765.460	11686.035	11853.865	11943.869	11903.106	11826.516	11801.858	11873.794	11857.609
<b>15</b>	6343.940	6248.907	6375.140	6326.486	6262.342	6289.428	6246.869	6359.821	6207.804	6317.620
<b>20</b>	2924.051	2839.122	2871.297	2856.726	2939.856	2892.495	2862.597	2853.385	2883.462	2864.740
<b>25</b>	1995.976	1991.423	1955.931	1977.006	1941.623	1963.317	1969.919	1972.719	1956.123	1963.536
<b>30</b>	1374.755	1357.642	1382.397	1413.667	1425.900	1454.112	1504.092	1528.441	1584.547	1559.080
<b>35</b>	798.052	844.215	825.937	835.016	832.182	810.046	708.412	672.194	616.743	609.164
<b>40</b>	361.642	350.997	324.233	296.798	251.566	241.402	229.609	229.991	236.509	236.657
<b>45</b>	59.433	55.981	63.050	62.140	59.600	60.640	62.306	60.900	61.425	61.877
<b>50</b>	28.668	28.519	27.134	29.084	30.922	28.158	29.185	30.332	32.882	30.124
<b>55</b>	26.455	27.927	28.571	28.652	29.060	28.959	30.256	33.189	29.008	30.233
<b>60</b>	27.180	28.691	27.687	29.926	26.494	28.103	27.232	29.770	28.704	28.330
<b>65</b>	25.433	26.660	26.569	27.817	25.579	27.958	27.144	28.616	27.193	27.677
<b>70</b>	25.173	24.424	24.557	24.071	27.019	24.583	25.477	26.463	26.819	25.828
<b>75</b>	20.415	17.948	20.592	19.976	21.479	21.414	19.687	20.371	21.143	19.994
<b>80</b>	14.914	14.199	15.049	13.179	14.303	13.439	13.421	12.059	13.406	13.003
<b>85</b>	5.148	5.548	5.359	5.018	4.987	5.416	6.477	5.699	5.327	4.802
<b>90</b>	0.237	0.567	0.198	0.120	0.224	0.309	0.000	0.120	0.000	0.439

## 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>	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205	18599.205
<b>5</b>	15822.994	15980.003	16117.613	15913.892	16044.220	16069.138	15820.326	15825.848	16160.193
<b>10</b>	11744.301	11917.006	11757.431	11988.308	11937.973	11798.519	11923.418	11815.788	11835.046
<b>15</b>	6328.657	6302.629	6269.978	6328.007	6282.705	6262.838	6284.832	6309.095	6250.395
<b>20</b>	2836.085	2889.642	2800.663	2852.494	2878.553	2894.008	2853.778	2890.266	2897.216
<b>25</b>	1970.298	1993.506	2006.732	1969.084	1978.064	1937.195	1981.382	1953.799	2014.558
<b>30</b>	1531.891	1533.808	1469.159	1416.789	1414.262	1394.955	1349.832	1340.097	1363.612
<b>35</b>	632.814	676.770	717.262	761.410	828.412	832.733	817.895	835.266	839.634
<b>40</b>	234.798	240.492	235.407	227.360	262.028	300.204	340.067	351.767	351.081
<b>45</b>	62.436	62.322	59.524	60.832	59.891	60.213	63.471	58.802	63.666
<b>50</b>	29.492	29.812	31.049	31.762	30.961	30.833	28.844	27.984	28.842
<b>55</b>	28.083	29.151	29.744	27.313	29.580	29.796	29.630	28.748	30.875
<b>60</b>	29.500	27.711	30.155	31.078	27.911	27.638	27.212	27.768	27.251
<b>65</b>	30.636	26.637	27.396	26.624	26.060	25.464	25.904	24.843	22.771
<b>70</b>	24.994	26.216	27.063	23.267	23.400	25.626	23.413	21.957	22.134
<b>75</b>	19.313	21.011	20.264	20.982	20.587	20.160	18.790	20.868	21.024
<b>80</b>	12.347	12.121	13.926	14.550	13.239	13.460	15.228	14.807	16.058
<b>85</b>	5.223	5.403	5.595	4.979	5.567	5.788	4.625	5.023	4.415
<b>90</b>	0.237	0.000	0.042	0.000	0.101	0.120	0.237	0.239	0.203

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Zone	Lumens	%Lamp	%Fixt
0-20	3240.13	N.A.	67.00
0-30	4180.47	N.A.	86.40
0-40	4677.9	N.A.	96.70
0-60	4784.55	N.A.	98.90
0-80	4832.01	N.A.	99.90
0-90	4838.69	N.A.	100.00
10-90	3429.88	N.A.	70.90
20-40	1437.77	N.A.	29.70
20-50	1518.26	N.A.	31.40
40-70	133.18	N.A.	2.80
60-80	47.46	N.A.	1.00
70-80	20.93	N.A.	0.40
80-90	6.68	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	4838.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1408.81
10-20	1831.32
20-30	940.34
30-40	497.43
40-50	80.49
50-60	26.16
60-70	26.53
70-80	20.93
80-90	6.68
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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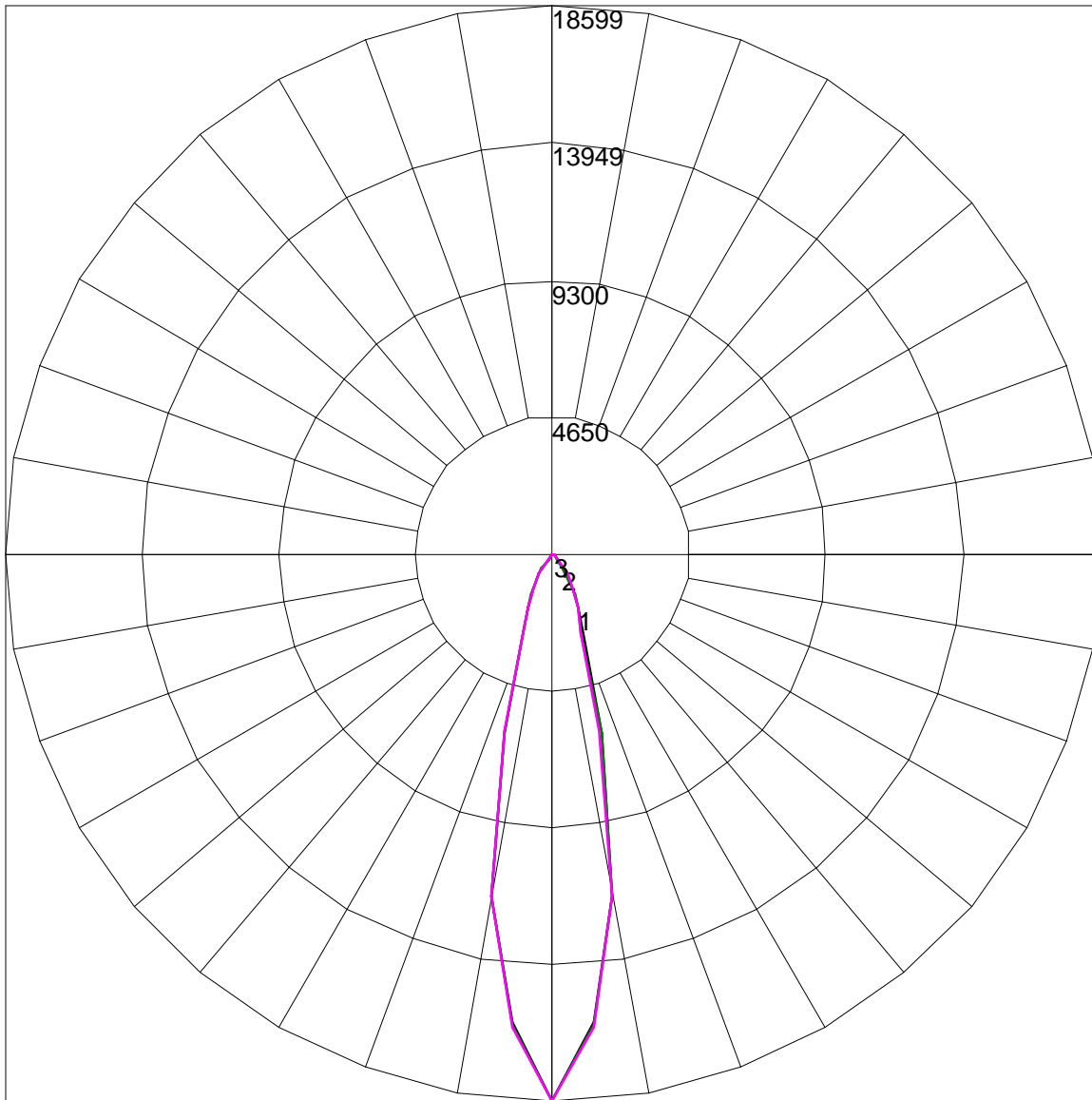
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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

POLAR GRAPH



Maximum Candela = 18599.205 Located At Horizontal Angle = 0, Vertical Angle = 0

- # 1 - Vertical Plane Through Horizontal Angles (0 - 180)
- # 2 - Vertical Plane Through Horizontal Angles (45 - 225)
- # 3 - Vertical Plane Through Horizontal Angles (90 - 270)