

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_40 ~ C1320YKSSXT-52LXXK-XNEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_40\_M-52L

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

[ISSUE DATE]

[TEST DATE] 10/16/2017

[UPDATE] 11/03/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-52L-xxK-XN-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra Narrow Beam

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

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

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

[OTHER] 12.0 Degree Beam Angle, 21.7 Degree Field Angle

[LAMP] N/A, 9mm

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] XN available for 52L and 80L versions only

[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 80L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3678
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	73.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.22
Spacing Criterion (Diagonal)	0.22
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\_40 ~ C1320YKSSXT-52LXXK-XNEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	818	779	782
55	801	817	796
65	939	897	890
75	963	890	969
85	435	638	512

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_40 ~ C1320YKSSXT-52LXXK-XNEX-MWI.IES

## 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>	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815
<b>5</b>	25961.461	26121.762	26287.423	25797.362	25534.241	25412.983	25127.016	25057.441	24975.416	24844.332
<b>10</b>	4554.166	4582.253	4551.820	4559.093	5218.434	5710.789	6496.984	6440.200	6479.336	6477.230
<b>15</b>	1871.733	1835.281	1847.235	1862.334	1837.927	1912.755	1901.152	1924.682	1932.534	1916.876
<b>20</b>	1457.761	1423.058	1424.592	1418.579	1414.445	1414.510	1401.094	1424.501	1412.762	1405.378
<b>25</b>	1246.498	1206.172	1213.342	1184.254	1152.833	1142.323	1105.910	1108.230	1090.862	1092.312
<b>30</b>	1016.912	983.053	962.078	924.696	891.663	857.941	830.271	819.273	798.317	786.656
<b>35</b>	602.264	599.501	582.959	561.411	573.761	565.129	553.124	537.530	534.105	539.662
<b>40</b>	101.627	111.553	116.792	118.345	114.159	125.034	132.951	131.462	128.375	132.574
<b>45</b>	66.001	62.900	63.817	62.114	63.245	64.564	60.768	64.155	62.926	62.887
<b>50</b>	58.474	61.386	56.550	58.415	56.465	56.972	55.237	55.848	56.277	54.892
<b>55</b>	52.409	54.554	52.422	52.195	51.207	51.818	53.547	52.572	51.915	53.488
<b>60</b>	46.182	48.262	46.319	48.652	46.793	50.622	46.397	50.511	49.328	49.016
<b>65</b>	45.292	42.172	42.549	44.154	43.114	45.246	45.851	45.188	46.286	43.277
<b>70</b>	38.057	36.055	37.381	38.096	37.973	36.998	36.777	36.699	36.263	36.114
<b>75</b>	28.444	26.279	31.148	28.788	26.552	27.651	28.509	27.306	28.457	26.299
<b>80</b>	17.290	17.342	17.979	16.711	17.550	16.848	15.795	16.250	15.255	16.874
<b>85</b>	4.322	6.279	6.461	6.825	6.058	6.305	5.063	5.921	6.526	6.350
<b>90</b>	0.104	0.084	0.000	0.000	0.169	0.000	0.084	0.201	0.084	0.000

## 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>	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815	43209.815
<b>5</b>	24856.286	25227.870	25055.745	25062.854	25521.190	26051.641	25960.141	26010.666	25810.070
<b>10</b>	6517.836	6420.602	6322.810	5799.352	5240.124	4642.378	4668.300	4585.841	4683.627
<b>15</b>	1950.546	1927.211	1932.209	1920.561	1798.088	1789.684	1788.039	1729.734	1762.748
<b>20</b>	1410.123	1420.744	1441.953	1421.751	1363.381	1387.314	1373.703	1373.476	1401.016
<b>25</b>	1083.277	1112.078	1125.013	1143.727	1173.269	1211.015	1238.913	1232.276	1219.517
<b>30</b>	797.270	805.740	831.025	849.368	888.309	927.270	956.566	962.455	987.688
<b>35</b>	538.616	542.509	557.355	571.512	572.864	581.951	582.673	588.250	592.793
<b>40</b>	133.178	130.617	131.183	130.793	113.139	114.367	107.796	110.103	107.172
<b>45</b>	61.438	62.751	61.613	61.626	65.695	64.876	63.076	64.902	63.069
<b>50</b>	56.205	57.024	53.547	56.680	55.477	55.588	56.550	60.502	58.695
<b>55</b>	54.658	51.837	49.478	52.539	53.202	53.072	50.427	50.843	52.078
<b>60</b>	48.152	45.740	48.119	48.646	46.228	48.015	50.778	46.852	47.268
<b>65</b>	45.155	44.746	44.206	40.508	41.652	41.112	42.867	42.074	42.913
<b>70</b>	35.087	33.943	37.264	36.907	35.314	37.459	38.727	36.374	36.478
<b>75</b>	26.799	26.637	25.402	25.675	25.967	27.241	28.756	29.633	28.632
<b>80</b>	15.379	17.758	17.244	17.342	15.970	17.147	17.485	17.348	16.302
<b>85</b>	6.597	6.396	5.733	5.772	5.154	5.713	6.597	5.661	5.089
<b>90</b>	0.000	0.084	0.000	0.000	0.000	0.000	0.084	0.331	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_40 ~ C1320YKSSXT-52LXXK-XNEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2638.7	N.A.	71.70
0-30	3166.14	N.A.	86.10
0-40	3493.92	N.A.	95.00
0-60	3599.31	N.A.	97.80
0-80	3670.57	N.A.	99.80
0-90	3678.44	N.A.	100.00
10-90	1747.97	N.A.	47.50
20-40	855.22	N.A.	23.20
20-50	913.67	N.A.	24.80
40-70	147.99	N.A.	4.00
60-80	71.27	N.A.	1.90
70-80	28.66	N.A.	0.80
80-90	7.87	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	3678.44	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1930.48
10-20	708.23
20-30	527.44
30-40	327.78
40-50	58.45
50-60	46.93
60-70	42.60
70-80	28.66
80-90	7.87
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

# IES INDOOR REPORT

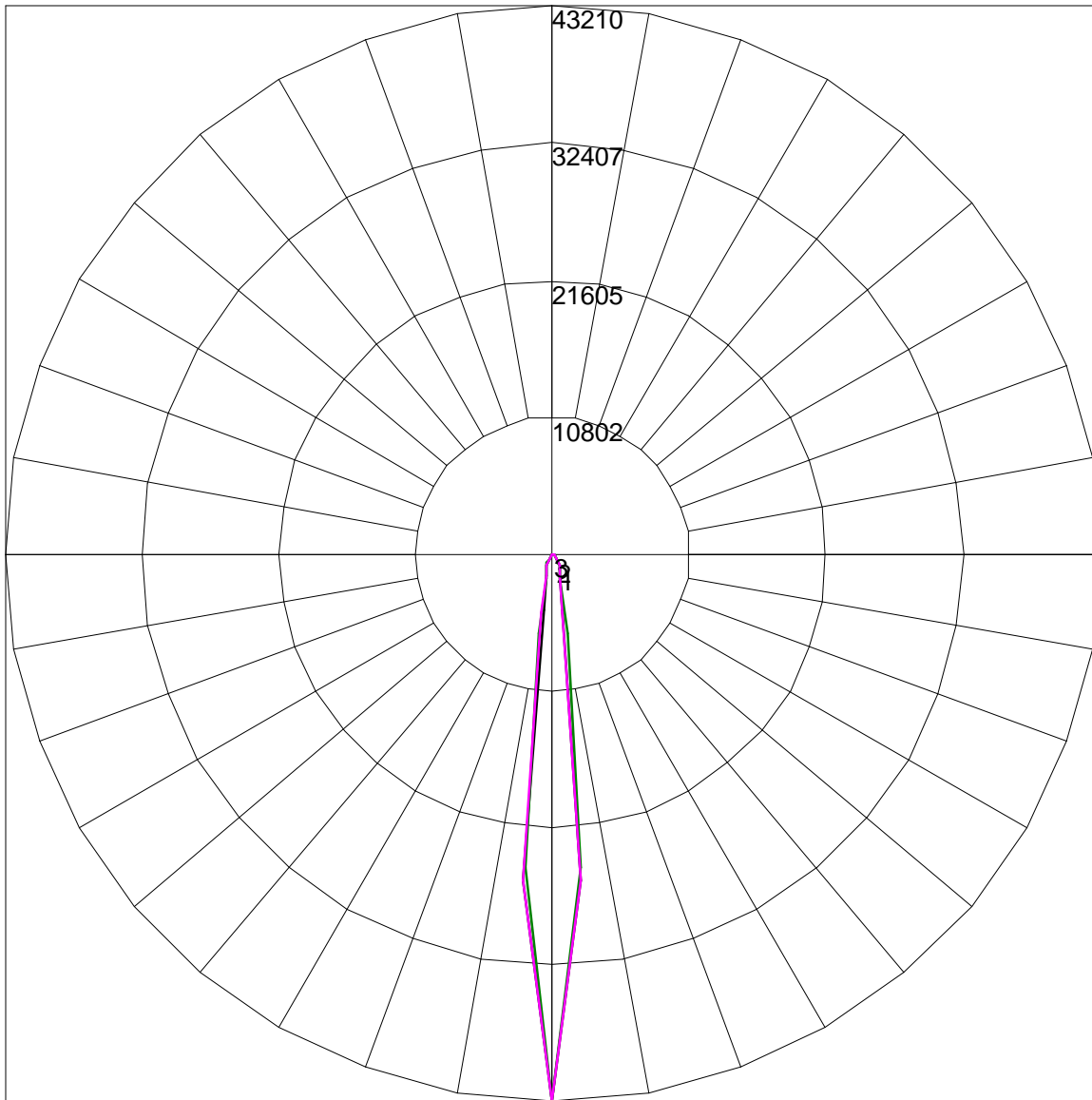
PHOTOMETRIC FILENAME : SP-00424\_40 ~ C1320YKSSXT-52LXXK-XNEX-MWI.IES

## 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	113	111	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	99	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	94	91	95	92	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	89	86	83	87	85	83	82
7	96	89	85	82	95	89	85	82	88	84	82	86	83	81	86	83	81	80
8	93	87	83	80	92	86	82	80	85	82	79	85	81	79	84	81	79	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75

POLAR GRAPH



Maximum Candela = 43209.815 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)