

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_59 ~ C1320YKXT-52LXXK-XNEX-TSG-MW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_59

[TESTLAB] Photopia 2017.0.4 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 6/15/2017

[UPDATE] 4/2/2018

[LUMCAT] C1320YKXT-52L-xxK-XN-EX-TSG-MW

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight, Xtra Narrow Beam

[OTHER] Nom. 12" Diam. Spun Alum. Bezel, Semi-Diffuse Clear anodized finish

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

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

[OTHER] Photometric data applicable to C1320XT (pendant), C1320XT (wall mounted)

[OTHER] and C1320YKXT (yoke mounted) luminaires

[OTHER] 11.8 Degree Beam Angle, 21.8 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	3897
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	53
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)	1.00 ft (Diameter)
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_59 ~ C1320YKXT-52LXXK-XNEX-TSG-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	712	576	723
55	912	669	823
65	639	691	718
75	850	690	748
85	266	190	251

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00424\_59 ~ C1320YKXT-52LXXK-XNEX-TSG-MW.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>	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547
<b>5</b>	25376.154	25479.954	25487.657	25359.112	25225.524	25220.357	25268.300	24981.782	25034.653	25124.794
<b>10</b>	4615.039	4541.849	4615.526	4690.478	5073.022	5840.334	6525.259	6506.493	6466.486	6459.856
<b>15</b>	1820.201	1776.814	1809.652	1798.368	1813.350	1852.012	1872.006	1858.382	1866.449	1855.373
<b>20</b>	1414.179	1468.961	1430.747	1463.520	1471.171	1452.113	1446.458	1481.454	1463.241	1474.473
<b>25</b>	1405.313	1348.730	1360.131	1353.846	1367.834	1382.686	1351.233	1383.616	1371.532	1387.243
<b>30</b>	1286.168	1280.656	1289.730	1283.795	1271.855	1273.701	1301.813	1265.043	1281.364	1294.910
<b>35</b>	957.105	943.007	961.603	971.392	980.798	981.929	952.458	956.429	969.624	967.148
<b>40</b>	139.269	143.507	137.325	149.370	148.694	164.443	172.633	171.210	164.651	171.099
<b>45</b>	36.777	40.209	38.512	36.666	33.338	33.202	33.182	34.333	30.225	29.750
<b>50</b>	40.261	40.579	37.329	38.610	31.239	35.548	31.401	28.535	28.814	27.969
<b>55</b>	38.207	32.747	35.438	35.958	35.373	34.008	29.997	30.803	30.355	28.034
<b>60</b>	30.264	29.471	26.786	26.858	26.195	29.061	28.359	24.550	25.629	24.518
<b>65</b>	19.721	23.140	23.556	21.268	21.508	20.221	21.859	23.120	21.281	21.320
<b>70</b>	18.466	18.668	18.902	18.726	19.168	19.870	20.026	17.972	18.369	17.849
<b>75</b>	16.074	15.437	14.397	15.288	14.287	14.300	13.702	14.742	12.896	13.039
<b>80</b>	7.358	8.034	9.093	9.386	9.269	9.548	10.569	10.939	9.009	10.140
<b>85</b>	1.696	1.040	1.046	1.976	1.462	1.423	1.378	0.838	1.293	1.209
<b>90</b>	0.000	0.000	0.078	0.156	0.000	0.000	0.078	0.000	0.000	0.156

**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>	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547	43213.547
<b>5</b>	24897.858	25172.179	25283.250	25134.811	25376.604	25337.674	25444.229	25479.420	25721.345
<b>10</b>	6440.824	6516.425	6437.190	5812.196	5116.345	4695.821	4597.209	4626.635	4616.690
<b>15</b>	1867.560	1848.977	1885.331	1798.693	1844.011	1758.555	1832.129	1790.139	1747.193
<b>20</b>	1471.853	1463.774	1464.398	1450.605	1459.848	1456.520	1461.427	1456.162	1454.076
<b>25</b>	1375.003	1357.921	1376.316	1389.290	1379.592	1379.852	1360.430	1371.896	1376.180
<b>30</b>	1270.184	1292.726	1279.713	1288.456	1268.429	1285.011	1275.137	1258.595	1314.794
<b>35</b>	970.450	972.335	971.997	969.858	975.006	967.616	964.158	958.204	965.893
<b>40</b>	166.270	161.057	168.649	169.786	153.790	142.135	142.486	141.602	140.874
<b>45</b>	32.857	31.811	34.528	35.477	37.108	36.036	36.803	36.029	37.355
<b>50</b>	31.050	31.681	33.637	34.378	33.598	35.828	39.273	38.135	42.061
<b>55</b>	28.314	30.589	32.994	30.439	33.137	35.561	32.955	36.575	34.456
<b>60</b>	24.856	25.785	27.969	27.300	26.019	28.548	30.290	26.078	26.611
<b>65</b>	22.288	21.547	21.476	24.141	24.095	23.471	20.663	22.132	22.152
<b>70</b>	17.862	18.999	17.868	17.218	19.773	19.578	18.499	18.395	19.071
<b>75</b>	15.112	13.123	13.825	14.352	15.177	14.514	15.392	15.398	14.131
<b>80</b>	10.848	9.997	10.406	8.515	7.559	9.262	8.079	8.307	8.248
<b>85</b>	1.118	0.929	0.793	1.612	1.592	1.371	1.820	1.534	1.599
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.078	0.000	0.156

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_59 ~ C1320YKXT-52LXXK-XNEX-TSG-MW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2628.17	N.A.	67.40
0-30	3260.8	N.A.	83.70
0-40	3779.05	N.A.	97.00
0-60	3856.8	N.A.	99.00
0-80	3894.09	N.A.	99.90
0-90	3897.35	N.A.	100.00
10-90	1976.77	N.A.	50.70
20-40	1150.88	N.A.	29.50
20-50	1200.21	N.A.	30.80
40-70	100.03	N.A.	2.60
60-80	37.29	N.A.	1.00
70-80	15.01	N.A.	0.40
80-90	3.26	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	3897.35	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1920.58
10-20	707.59
20-30	632.63
30-40	518.25
40-50	49.33
50-60	28.42
60-70	22.28
70-80	15.01
80-90	3.26
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\_59 ~ C1320YKXT-52LXXK-XNEX-TSG-MW.IES

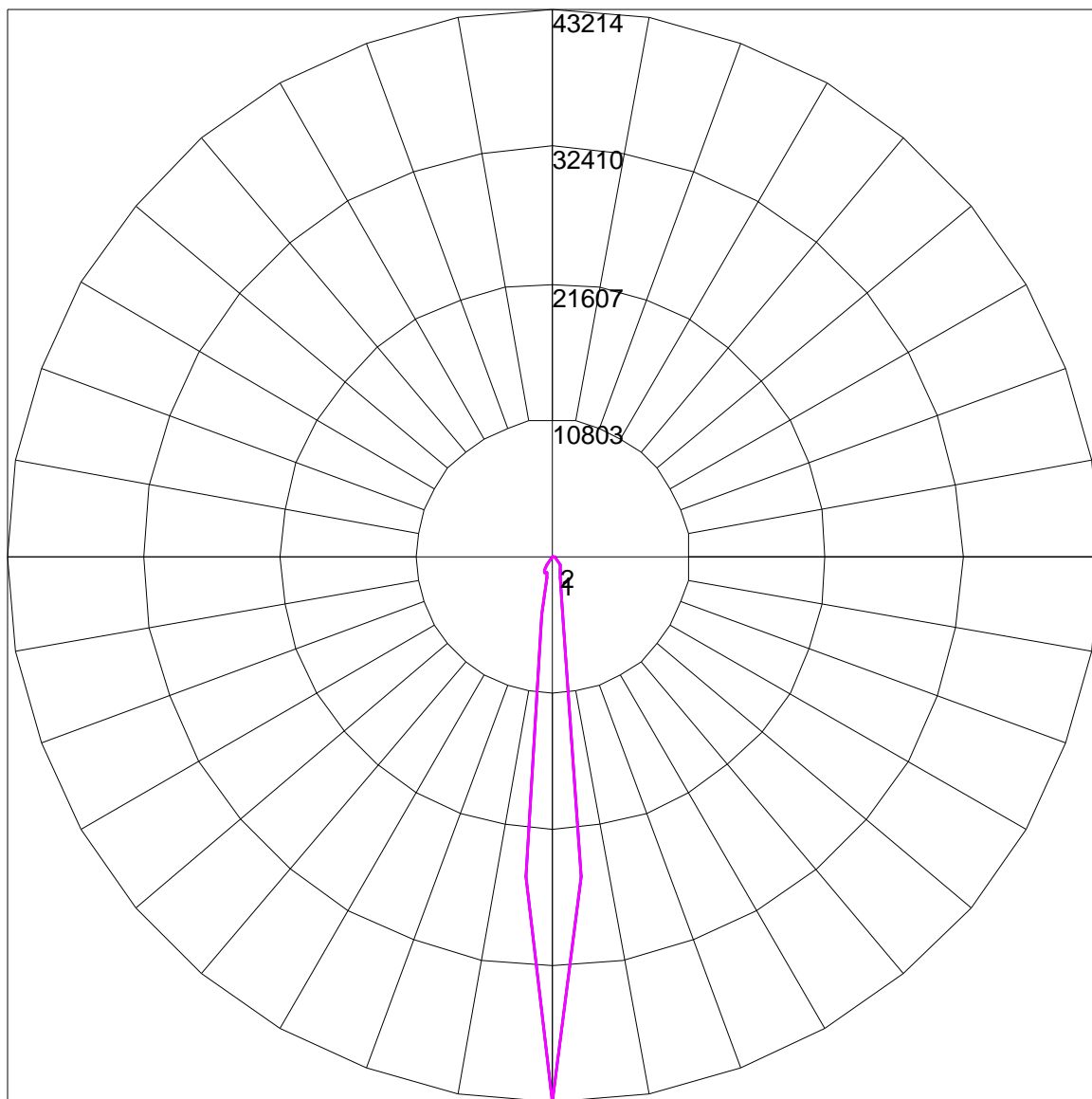
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	111	109	107	107	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	98	95	105	101	97	95	98	96	93	96	94	92	94	92	90	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	90	87	92	88	86	90	87	85	89	86	84	83
6	97	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	94	88	84	81	86	83	80	85	82	80	84	82	79	78
8	92	85	81	78	91	85	81	78	84	80	78	83	80	78	82	80	77	76
9	90	83	79	76	89	83	79	76	82	78	76	81	78	76	80	78	75	74
10	88	81	77	74	87	81	77	74	80	76	74	79	76	74	79	76	74	73

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00424\_59 ~ C1320YKXT-52LXXK-XNEX-TSG-MW.IES

POLAR GRAPH



Maximum Candela = 43213.547 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)