

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_59 ~ C1320YKXT-80LXXK-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-80L-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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5996
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	142
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-80LXXK-XNEX-TSG-MW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1096	886	1113
55	1403	1030	1265
65	983	1063	1104
75	1308	1061	1150
85	410	292	386

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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>	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383
<b>5</b>	39040.238	39199.930	39211.781	39014.020	38808.500	38800.551	38874.309	38433.512	38514.852	38653.531
<b>10</b>	7100.060	6987.460	7100.810	7216.120	7804.650	8985.130	10038.860	10009.990	9948.440	9938.240
<b>15</b>	2800.310	2733.560	2784.080	2766.720	2789.770	2849.250	2880.010	2859.050	2871.460	2854.420
<b>20</b>	2175.660	2259.940	2201.150	2251.570	2263.340	2234.020	2225.320	2279.160	2251.140	2268.420
<b>25</b>	2162.020	2074.970	2092.510	2082.840	2104.360	2127.210	2078.820	2128.640	2110.050	2134.220
<b>30</b>	1978.720	1970.240	1984.200	1975.070	1956.700	1959.540	2002.790	1946.220	1971.330	1992.170
<b>35</b>	1472.470	1450.780	1479.390	1494.450	1508.920	1510.660	1465.320	1471.430	1491.730	1487.920
<b>40</b>	214.260	220.780	211.270	229.800	228.760	252.990	265.590	263.400	253.310	263.230
<b>45</b>	56.580	61.860	59.250	56.410	51.290	51.080	51.050	52.820	46.500	45.770
<b>50</b>	61.940	62.430	57.430	59.400	48.060	54.690	48.310	43.900	44.330	43.030
<b>55</b>	58.780	50.380	54.520	55.320	54.420	52.320	46.150	47.390	46.700	43.130
<b>60</b>	46.560	45.340	41.210	41.320	40.300	44.710	43.630	37.770	39.430	37.720
<b>65</b>	30.340	35.600	36.240	32.720	33.090	31.110	33.630	35.570	32.740	32.800
<b>70</b>	28.410	28.720	29.080	28.810	29.490	30.570	30.810	27.650	28.260	27.460
<b>75</b>	24.730	23.750	22.150	23.520	21.980	22.000	21.080	22.680	19.840	20.060
<b>80</b>	11.320	12.360	13.990	14.440	14.260	14.690	16.260	16.830	13.860	15.600
<b>85</b>	2.610	1.600	1.610	3.040	2.250	2.190	2.120	1.290	1.990	1.860
<b>90</b>	0.000	0.000	0.120	0.240	0.000	0.000	0.120	0.000	0.000	0.240

**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>	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383	66482.383
<b>5</b>	38304.398	38726.430	38897.309	38668.941	39040.930	38981.039	39144.969	39199.109	39571.301
<b>10</b>	9908.960	10025.270	9903.370	8941.840	7871.300	7224.340	7072.630	7117.900	7102.600
<b>15</b>	2873.170	2844.580	2900.510	2767.220	2836.940	2705.470	2818.660	2754.060	2687.990
<b>20</b>	2264.390	2251.960	2252.920	2231.700	2245.920	2240.800	2248.350	2240.250	2237.040
<b>25</b>	2115.390	2089.110	2117.410	2137.370	2122.450	2122.850	2092.970	2110.610	2117.200
<b>30</b>	1954.130	1988.810	1968.790	1982.240	1951.430	1976.940	1961.750	1936.300	2022.760
<b>35</b>	1493.000	1495.900	1495.380	1492.090	1500.010	1488.640	1483.320	1474.160	1485.990
<b>40</b>	255.800	247.780	259.460	261.210	236.600	218.670	219.210	217.850	216.730
<b>45</b>	50.550	48.940	53.120	54.580	57.090	55.440	56.620	55.430	57.470
<b>50</b>	47.770	48.740	51.750	52.890	51.690	55.120	60.420	58.670	64.710
<b>55</b>	43.560	47.060	50.760	46.830	50.980	54.710	50.700	56.270	53.010
<b>60</b>	38.240	39.670	43.030	42.000	40.030	43.920	46.600	40.120	40.940
<b>65</b>	34.290	33.150	33.040	37.140	37.070	36.110	31.790	34.050	34.080
<b>70</b>	27.480	29.230	27.490	26.490	30.420	30.120	28.460	28.300	29.340
<b>75</b>	23.250	20.190	21.270	22.080	23.350	22.330	23.680	23.690	21.740
<b>80</b>	16.690	15.380	16.010	13.100	11.630	14.250	12.430	12.780	12.690
<b>85</b>	1.720	1.430	1.220	2.480	2.450	2.110	2.800	2.360	2.460
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.120	0.000	0.240

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Zone	Lumens	%Lamp	%Fixt
0-20	4043.34	N.A.	67.40
0-30	5016.62	N.A.	83.70
0-40	5813.93	N.A.	97.00
0-60	5933.54	N.A.	99.00
0-80	5990.91	N.A.	99.90
0-90	5995.92	N.A.	100.00
10-90	3041.19	N.A.	50.70
20-40	1770.59	N.A.	29.50
20-50	1846.48	N.A.	30.80
40-70	153.89	N.A.	2.60
60-80	57.37	N.A.	1.00
70-80	23.09	N.A.	0.40
80-90	5.01	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	5995.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2954.74
10-20	1088.6
20-30	973.28
30-40	797.31
40-50	75.89
50-60	43.72
60-70	34.28
70-80	23.09
80-90	5.01
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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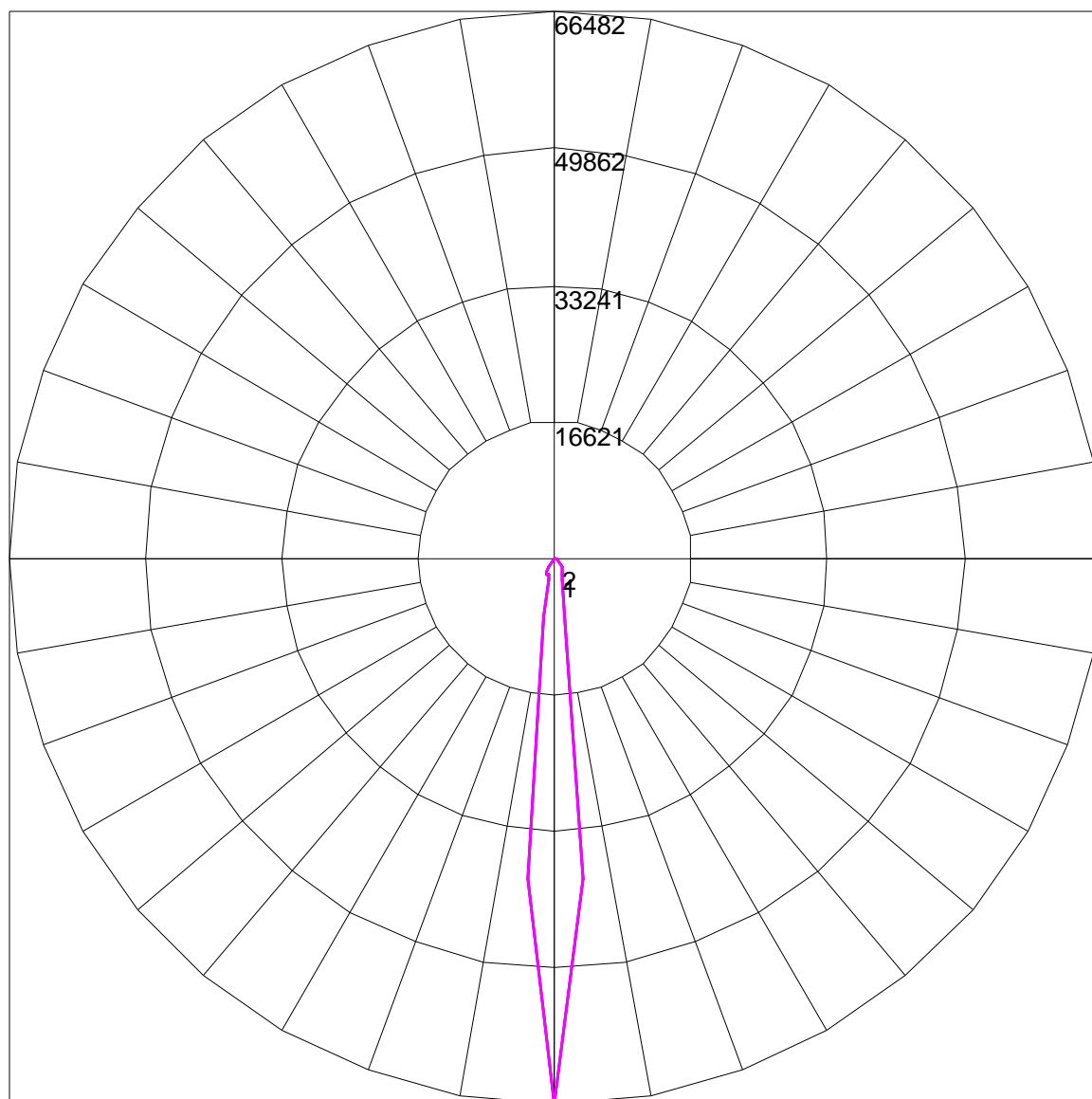
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	109	112	110	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	85	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	79	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

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POLAR GRAPH



Maximum Candela = 66482.383 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)