

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_52 ~ C1320YKSSXT-200LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_52\_M-200L

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

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-200L-xxK-XW-EX-MWI

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

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

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

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

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

[OTHER] 49.3 Degree Beam Angle, 86.6 Degree Field Angle

[LAMPCAT] LED 5000lm

[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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	16175
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.76
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\_52 ~ C1320YKSSXT-200LXXK-XWEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	21824	16084	22114
55	11277	11258	12111
65	11563	11632	12071
75	11006	11330	11083
85	6508	7357	6923

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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>	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830
<b>5</b>	18991.600	18636.211	18567.100	18962.289	18743.119	18418.439	18942.811	18610.869	18992.949	18655.740
<b>10</b>	18107.029	18200.510	17930.631	18294.789	18142.090	17910.920	17899.939	17922.619	17912.070	18003.730
<b>15</b>	16627.480	16771.359	16708.641	16523.289	16622.730	16230.420	16296.840	16509.891	16524.881	16558.859
<b>20</b>	12798.250	12703.920	12706.390	12982.990	12786.430	12638.320	12815.570	12745.300	12752.780	12595.500
<b>25</b>	10301.030	10082.200	9825.520	9887.140	9324.380	9053.900	8546.380	8115.300	7997.180	7995.270
<b>30</b>	7658.010	7290.340	6661.230	6357.140	5942.470	5933.150	5786.500	5739.350	5564.650	5725.530
<b>35</b>	3910.370	3912.320	4382.030	4551.370	4650.040	4539.820	4417.940	4336.810	4351.630	4355.000
<b>40</b>	2665.760	2487.130	2437.710	2423.150	2501.740	2666.410	2994.070	3288.300	3346.110	3435.410
<b>45</b>	1761.000	1778.700	1720.550	1681.820	1686.680	1619.690	1492.640	1377.660	1311.960	1297.850
<b>50</b>	905.580	918.790	889.930	854.850	813.800	794.550	808.460	746.250	757.980	779.720
<b>55</b>	738.160	746.130	748.560	724.860	722.340	737.810	699.460	725.350	711.240	736.890
<b>60</b>	699.120	699.420	710.860	688.130	676.150	682.870	671.530	663.820	654.590	639.340
<b>65</b>	557.640	591.110	607.600	569.560	571.420	586.130	580.250	566.770	583.620	560.970
<b>70</b>	430.670	438.750	459.910	448.650	437.520	431.250	446.240	453.460	445.870	462.280
<b>75</b>	325.070	310.280	311.870	312.740	311.960	328.900	336.830	317.470	325.570	334.650
<b>80</b>	193.850	191.860	192.870	195.260	207.000	201.330	198.770	197.010	181.890	200.160
<b>85</b>	64.730	64.560	74.750	74.110	64.890	70.050	64.610	69.610	64.920	73.170
<b>90</b>	1.830	0.000	0.820	0.460	1.320	0.340	2.050	0.450	0.790	1.370

## Vert. 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>	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830	18359.830
<b>5</b>	19086.221	19084.020	18888.170	18804.350	19250.369	19170.561	18756.240	19217.029	19458.631
<b>10</b>	17856.949	18074.221	18256.211	18026.061	17993.301	17855.010	18102.090	17873.430	17886.180
<b>15</b>	16512.830	16921.689	16685.939	16605.090	16491.830	16593.230	16539.180	16628.131	16777.510
<b>20</b>	13018.810	12841.970	12667.660	12726.250	12623.720	12956.410	12761.250	12800.580	12553.980
<b>25</b>	7994.700	8078.980	8509.410	8933.870	9341.070	9830.250	10204.630	10139.700	10205.250
<b>30</b>	5690.730	5751.290	5722.310	5862.770	6178.950	6407.940	6770.760	7356.450	7526.460
<b>35</b>	4304.570	4454.570	4323.260	4599.220	4574.130	4369.340	4230.640	3976.730	3995.360
<b>40</b>	3411.350	3238.220	2957.690	2648.630	2447.720	2370.810	2515.840	2417.010	2524.580
<b>45</b>	1317.620	1399.990	1472.520	1586.950	1675.300	1707.520	1694.550	1798.670	1784.430
<b>50</b>	758.540	766.810	753.360	730.050	827.460	850.500	874.160	915.970	961.960
<b>55</b>	708.830	728.760	721.520	747.130	715.110	746.430	724.640	754.580	792.710
<b>60</b>	651.670	639.060	654.170	687.860	663.420	679.010	692.100	690.670	688.570
<b>65</b>	564.240	550.010	569.860	569.640	582.720	584.740	594.070	593.510	582.170
<b>70</b>	456.820	451.440	450.190	452.480	462.980	448.840	455.620	441.330	446.700
<b>75</b>	324.910	339.530	309.020	331.030	318.790	327.030	317.450	328.240	327.350
<b>80</b>	198.130	197.670	190.280	190.730	187.230	191.160	187.230	189.590	195.590
<b>85</b>	67.910	65.230	64.980	74.460	68.260	64.930	67.580	76.440	68.860
<b>90</b>	0.410	0.000	0.860	0.220	0.000	0.780	1.150	0.000	0.790

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Zone	Lumens	%Lamp	%Fixt
0-20	6236.03	N.A.	38.60
0-30	10474.85	N.A.	64.80
0-40	13225.01	N.A.	81.80
0-60	15180.33	N.A.	93.80
0-80	16084.69	N.A.	99.40
0-90	16175.12	N.A.	100.00
10-90	14409.65	N.A.	89.10
20-40	6988.98	N.A.	43.20
20-50	8281.86	N.A.	51.20
40-70	2519.6	N.A.	15.60
60-80	904.38	N.A.	5.60
70-80	340.10	N.A.	2.10
80-90	90.41	N.A.	0.60
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	16175.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1765.46
10-20	4470.57
20-30	4238.82
30-40	2750.16
40-50	1292.88
50-60	662.44
60-70	564.28
70-80	340.10
80-90	90.41
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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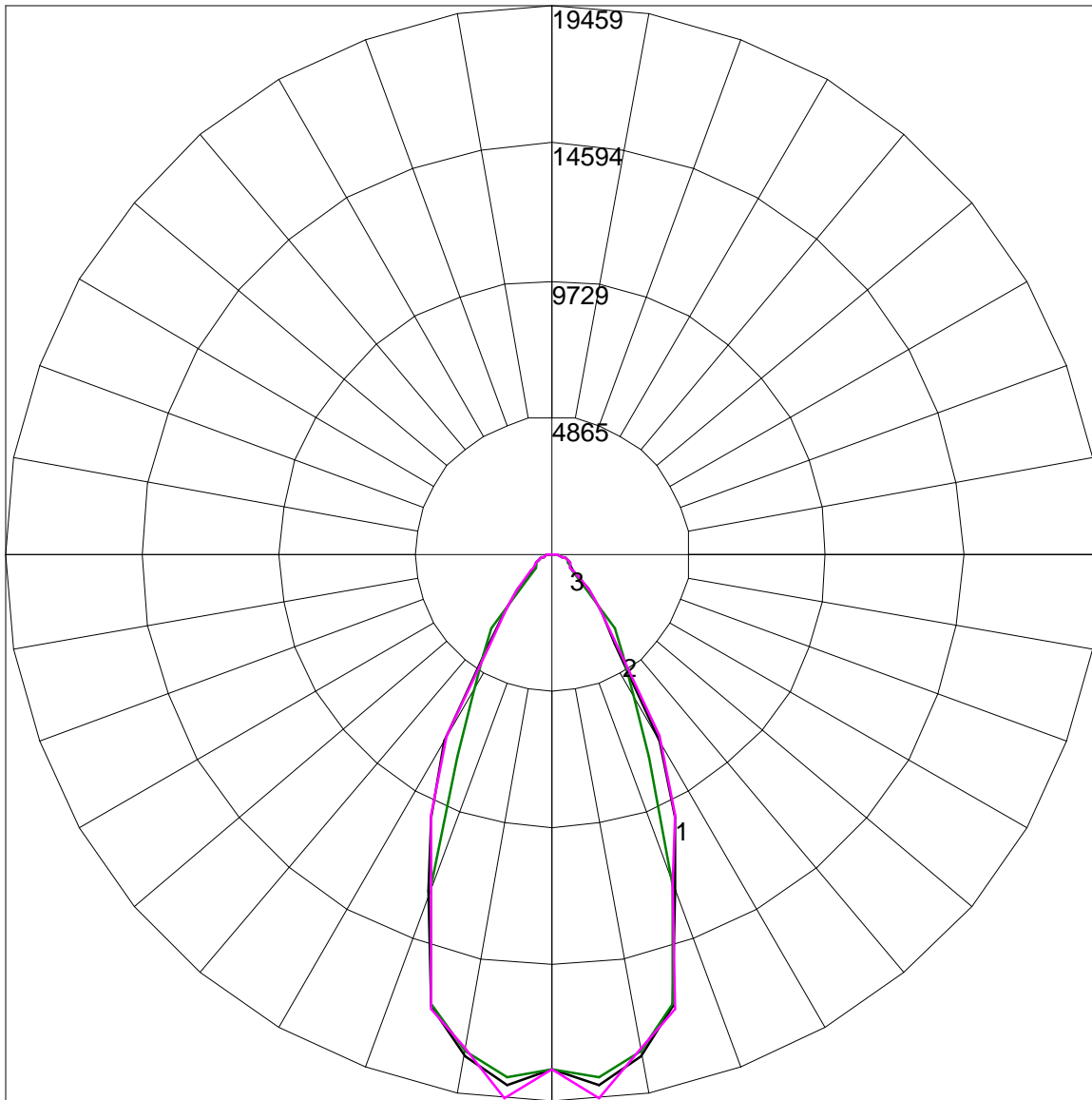
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47

POLAR GRAPH



Maximum Candela = 19458.631 Located At Horizontal Angle = 90, 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)