

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-200LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_50_M-200L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-200L-xxK-XW-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Wide 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] 54.8 Degree Beam Angle, 89.8 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	17937
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	87
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
Spacing Criterion (Diagonal)	0.88
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_50 ~ C1320YKFSXT-200LXXK-XWEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16480	24853	17110
55	6151	6213	5857
65	6226	6323	6504
75	6321	6429	6270
85	4170	4667	4066

IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-200LXXK-XWEX-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>
0	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939
5	19354.580	19839.131	19705.721	19688.471	19856.199	19645.490	19520.051	19769.689	19673.570	20087.061
10	18397.920	18326.590	18299.650	18590.420	18371.600	18487.061	18393.750	18540.400	18366.711	18355.080
15	16954.141	16528.150	16820.910	16592.029	16768.301	16630.711	16589.881	16856.660	16858.461	16797.150
20	14038.790	14067.550	14200.520	13986.810	13981.630	13889.070	14070.060	13970.930	13916.560	14001.930
25	11660.270	11635.890	11701.820	11689.790	11587.790	11382.040	11631.150	11570.880	11590.250	11567.990
30	8135.480	8373.480	8398.240	8354.590	8566.350	8503.940	8826.220	8939.120	9020.500	8966.980
35	6282.960	6276.510	6381.850	6300.080	6083.960	5814.060	5469.150	5197.160	5123.980	5119.620
40	4442.780	4243.160	3980.380	3573.140	3374.270	3342.680	3285.110	3340.170	3237.940	3293.030
45	1329.770	1539.340	1756.680	1843.160	2045.770	2047.580	1991.420	2035.780	1956.260	2005.440
50	678.810	702.500	700.720	694.720	743.300	840.430	949.130	1005.600	1068.330	1028.360
55	402.630	400.200	400.680	400.380	406.130	401.000	385.970	420.230	394.170	406.670
60	327.640	334.300	326.900	356.080	347.470	331.440	343.190	326.380	337.130	338.300
65	300.280	297.630	302.060	295.070	304.300	315.950	299.110	323.670	332.980	304.930
70	292.210	279.890	276.800	294.860	269.540	279.800	269.500	278.700	257.830	270.040
75	186.690	197.040	204.120	202.290	193.670	192.280	189.260	189.370	199.810	189.890
80	114.470	118.810	116.650	116.850	114.520	112.720	127.030	116.780	124.330	119.550
85	41.470	44.600	41.790	44.960	43.590	43.470	36.250	43.990	39.540	46.420
90	0.000	2.670	3.440	0.860	1.640	1.600	1.770	1.010	2.670	1.650

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>
0	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939	19182.939
5	19763.801	20115.920	19356.510	19676.881	19464.930	19397.750	19659.449	19584.189	19813.230
10	18287.119	18255.311	18635.730	18406.600	18353.199	18169.279	18150.189	18576.609	18317.600
15	16655.859	16620.570	16811.830	16909.051	16577.881	16617.609	16766.881	16914.631	16691.189
20	13804.440	13847.270	13862.030	13946.710	14097.350	13861.870	14037.910	13882.500	14033.660
25	11512.410	11353.430	11501.790	11454.880	11531.390	11736.570	11541.830	11674.260	11556.140
30	9045.100	9006.290	8875.320	8674.020	8557.830	8290.460	8480.650	8204.470	8179.910
35	5111.170	5224.930	5570.190	5922.930	6032.410	6252.750	6239.390	6255.620	6316.800
40	3293.370	3364.440	3282.690	3382.110	3425.090	3662.790	3889.520	4096.460	4344.800
45	1924.770	2092.030	2017.380	2033.510	2064.540	1828.900	1701.680	1487.490	1380.610
50	1032.690	1001.170	947.290	837.960	746.000	696.060	714.240	679.440	701.910
55	399.790	418.130	406.550	419.680	402.790	403.410	387.110	395.510	383.390
60	340.370	350.960	353.700	338.430	331.330	339.520	334.020	349.660	344.790
65	318.690	350.940	312.240	322.260	310.060	334.990	301.560	308.620	313.670
70	272.730	262.430	258.950	270.150	277.780	270.060	276.140	278.740	281.820
75	184.700	191.610	192.640	190.310	201.410	199.040	202.310	207.970	185.180
80	108.870	113.170	124.470	110.750	126.090	119.290	121.610	118.540	120.280
85	41.790	49.840	38.160	36.000	47.070	41.780	39.820	45.950	40.440
90	1.150	1.600	3.030	1.110	0.460	1.380	0.760	1.370	3.370

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-200LXXK-XWEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6439.77	N.A.	35.90
0-30	11674.24	N.A.	65.10
0-40	15368.33	N.A.	85.70
0-60	17367.35	N.A.	96.80
0-80	17881.36	N.A.	99.70
0-90	17937.14	N.A.	100.00
10-90	16110.45	N.A.	89.80
20-40	8928.56	N.A.	49.80
20-50	10486.45	N.A.	58.50
40-70	2306.54	N.A.	12.90
60-80	514.00	N.A.	2.90
70-80	206.48	N.A.	1.20
80-90	55.78	N.A.	0.30
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	17937.14	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1826.68
10-20	4613.09
20-30	5234.47
30-40	3694.09
40-50	1557.89
50-60	441.14
60-70	307.52
70-80	206.48
80-90	55.78
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

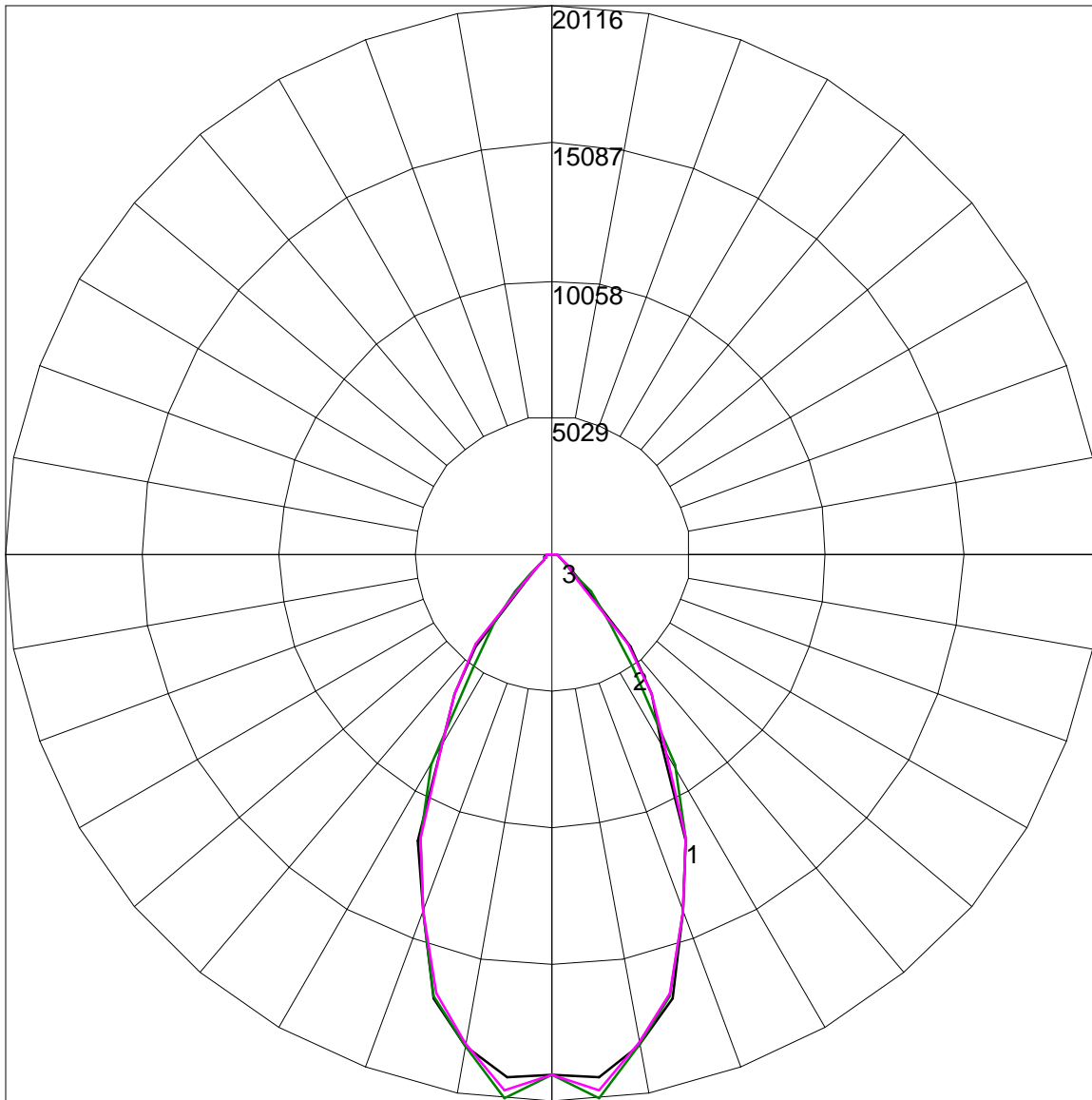
PHOTOMETRIC FILENAME : SP-00424_50 ~ C1320YKFSXT-200LXXK-XWEX-MWI.IES

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48

POLAR GRAPH



Maximum Candela = 20115.92 Located At Horizontal Angle = 55, 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)