

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_46 ~ C1320YKFSXT-200LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_46_M-200L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, 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] 52.4 Degree Beam Angle, 89.6 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	17791
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
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_46 ~ C1320YKFSXT-200LXXK-WDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	17715	26924	17286
55	6756	6606	6773
65	6817	7300	7005
75	7423	6950	7374
85	3219	4447	4445

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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>
0	17929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511
5	17688.8301	7506.2701	7945.3401	7700.6411	8210.9711	8025.6801	8215.6801	7554.1191	7879.8811	7659.8911
10	19428.8501	9105.7111	9375.5391	9610.2401	9280.5291	9331.9201	9441.1501	9744.4391	9217.3011	9456.9801
15	17473.8501	7724.1001	7851.8501	7677.3201	7949.6001	7952.9711	7783.5511	7800.6701	7821.0391	7897.6411
20	14652.8001	4740.5901	4697.7201	4762.5401	4611.8001	4726.5101	4693.1901	4738.5601	4674.2701	4532.9301
25	10936.7701	1204.7901	1160.5801	1112.4301	11248.0201	1038.0901	11230.2401	11241.1801	10924.4201	1065.3801
30	7442.610	7568.380	7734.900	7676.790	7721.540	7797.340	8081.070	8082.480	8359.020	8258.920
35	5741.720	5636.300	5683.280	5735.140	5382.520	5206.520	4991.200	4574.870	4406.240	4436.270
40	4338.400	4123.120	3815.070	3541.400	3258.610	3165.590	3171.180	3162.140	3218.170	3158.270
45	1429.490	1511.050	1770.950	1928.790	2182.410	2211.650	2136.280	2114.860	2119.630	2172.590
50	722.220	746.780	738.850	761.410	775.970	902.890	994.290	1094.360	1088.790	1123.300
55	442.200	418.530	435.050	427.240	427.300	437.320	430.790	424.730	437.350	432.390
60	342.880	363.900	354.650	364.570	368.050	385.120	371.350	368.440	367.840	377.150
65	328.780	328.090	328.530	339.410	344.800	342.610	354.840	338.240	344.390	352.050
70	296.730	299.910	288.110	300.570	289.230	282.350	287.440	295.780	280.710	290.800
75	219.250	209.070	213.600	218.240	208.050	225.270	198.990	223.030	197.540	205.280
80	110.120	112.990	123.670	120.840	127.040	127.650	121.960	124.660	120.950	119.430
85	32.020	41.860	42.810	44.500	46.850	49.520	46.930	45.020	44.080	44.230
90	2.440	2.390	1.380	1.830	0.850	1.120	0.450	0.910	0.610	1.270

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	17929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511	7929.0511
5	17667.0101	7935.1601	7952.7211	7886.9101	7663.4491	7881.3111	7954.0801	8076.6411	7979.5391
10	19851.7701	9338.4101	9369.8111	9299.7791	9257.8301	9434.7701	9496.9001	9261.5611	9641.6991
15	17606.7211	7721.5511	8026.9391	7515.5511	8085.7891	7786.6001	7571.1891	7988.6891	7746.3691
20	14609.4201	4471.1001	4736.1001	4647.6801	4574.6201	4782.0801	4867.0101	4631.4001	4609.9601
25	11228.5901	1039.3701	1155.1501	11250.7301	11112.1401	11025.4201	10989.4101	11259.0201	11089.1801
30	8252.710	8150.280	7959.660	7785.820	7606.010	7689.560	7592.050	7508.630	7467.600
35	4502.310	4721.340	4944.130	5284.120	5490.830	5651.060	5688.220	5776.850	5592.570
40	3129.330	3154.510	3098.210	3160.660	3289.440	3443.850	3851.320	4172.760	4326.050
45	2129.430	2156.490	2159.640	2134.520	2107.310	2007.200	1778.170	1531.300	1394.870
50	1091.210	1136.240	1075.200	921.000	757.600	752.600	722.910	748.310	781.280
55	446.360	449.480	428.270	440.940	438.100	429.160	430.530	426.870	443.330
60	373.000	374.430	363.920	376.820	370.310	365.760	350.220	357.380	341.120
65	350.890	346.090	341.580	338.460	328.800	344.560	337.060	330.340	337.840
70	266.650	282.870	286.950	281.290	294.690	294.680	295.620	302.850	276.500
75	197.450	214.720	215.830	198.540	196.860	213.330	229.150	220.120	217.800
80	121.030	119.560	123.200	122.170	126.340	114.580	114.290	111.690	123.320
85	40.980	47.170	39.480	46.340	44.300	44.380	41.350	48.040	44.210
90	2.690	2.430	0.340	0.460	1.080	0.460	0.920	0.850	0.910

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Zone	Lumens	%Lamp	%Fixt
0-20	6644.81	N.A.	37.30
0-30	11752.41	N.A.	66.10
0-40	15121.6	N.A.	85.00
0-60	17183.29	N.A.	96.60
0-80	17734.1	N.A.	99.70
0-90	17791.28	N.A.	100.00
10-90	16029.93	N.A.	90.10
20-40	8476.79	N.A.	47.60
20-50	10063.84	N.A.	56.60
40-70	2392.86	N.A.	13.40
60-80	550.80	N.A.	3.10
70-80	219.63	N.A.	1.20
80-90	57.19	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	17791.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1761.36
10-20	4883.45
20-30	5107.6
30-40	3369.19
40-50	1587.04
50-60	474.64
60-70	331.17
70-80	219.63
80-90	57.19
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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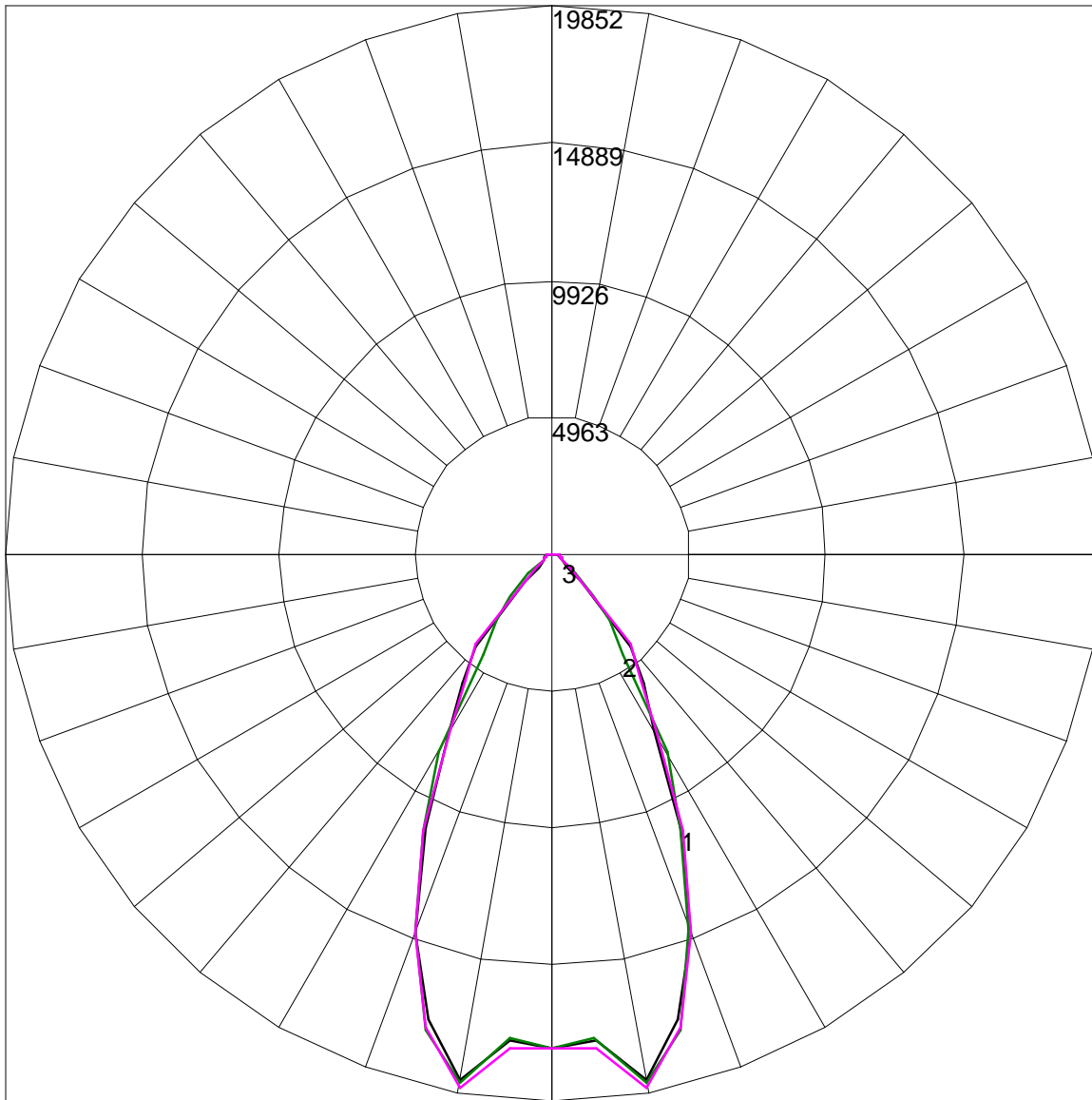
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	76	82	78	75	80	77	74	72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	57	76	67	61	57	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

POLAR GRAPH



Maximum Candela = 19851.77 Located At Horizontal Angle = 50, Vertical Angle = 10

1 - Vertical Plane Through Horizontal Angles (0 - 180)

2 - Vertical Plane Through Horizontal Angles (45 - 225)

3 - Vertical Plane Through Horizontal Angles (90 - 270)