

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-200LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_48\_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-WD-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, 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] 46.6 Degree Beam Angle, 87.5 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	15923
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.84
Spacing Criterion (Diagonal)	0.72
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\_48 ~ C1320YKSSXT-200LXXK-WDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	23081	17404	22288
55	12411	11582	12188
65	12792	12462	13103
75	11269	11337	11205
85	6606	7514	6719

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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	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609
5	17152.391	17002.420	16984.961	16938.699	17019.939	16987.180	17160.840	16824.721	17419.730	16401.670
10	19126.740	19090.910	18774.600	18782.100	19143.529	18921.971	19047.641	18910.619	18856.221	18982.359
15	17626.939	17443.439	17450.631	17536.680	17375.289	17415.410	17247.811	17434.750	17648.811	17273.359
20	12954.070	13013.430	12858.350	12634.250	12670.860	12906.410	12739.570	12755.920	12610.920	12606.670
25	9793.520	9485.830	9356.400	9135.390	8558.080	8000.060	7531.330	6929.420	6784.830	6625.130
30	6896.890	6794.960	6133.630	5764.240	5388.160	5138.010	5038.600	4909.420	4958.580	4993.930
35	3384.420	3645.250	3804.840	4149.050	4220.530	4328.210	4290.780	4251.510	4120.740	3995.820
40	2489.300	2539.420	2490.090	2357.810	2448.270	2744.910	2978.170	3446.650	3458.310	3529.190
45	1862.460	1893.460	1819.270	1718.380	1699.610	1650.990	1591.920	1412.120	1369.730	1404.400
50	999.050	983.290	971.200	914.990	856.310	815.810	837.240	809.800	805.700	804.990
55	812.380	802.520	789.440	795.000	808.560	759.310	755.200	747.270	764.110	758.120
60	759.610	741.180	731.280	715.890	727.450	681.550	693.200	704.980	713.100	708.310
65	616.920	630.460	607.140	600.080	606.830	623.290	599.190	601.550	602.010	601.020
70	477.720	473.850	471.430	463.200	457.850	450.350	484.350	479.210	477.400	463.390
75	332.840	332.860	329.900	338.330	330.510	327.900	330.910	323.010	331.920	334.850
80	198.870	190.230	188.950	199.000	203.640	204.100	193.970	201.330	203.050	213.170
85	65.700	66.920	71.760	67.790	68.500	73.350	71.220	69.440	70.270	74.730
90	1.080	0.450	0.000	1.150	1.900	1.300	0.810	1.500	0.850	0.460

## 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>
0	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609	17296.609
5	17200.279	17054.811	16925.480	17170.000	16979.471	16909.900	16760.730	17302.490	16969.020
10	19289.131	18878.910	18750.760	18525.420	18736.730	19140.301	18820.670	19365.320	18859.990
15	17379.840	17563.770	17383.580	16970.631	17247.410	17670.301	17348.670	17075.301	17427.221
20	12603.040	12587.520	12712.520	12893.350	12634.810	12968.890	12940.780	12976.110	12800.860
25	6744.690	7133.790	7453.390	8148.410	8523.780	8946.770	9443.960	9504.770	9474.000
30	5139.520	4963.320	5046.400	5255.680	5406.610	5797.100	6248.400	6851.080	6814.930
35	4110.500	4160.390	4201.200	4230.090	4283.800	4128.630	3928.310	3464.110	3319.180
40	3552.740	3189.140	2953.610	2698.530	2432.360	2389.950	2482.720	2457.510	2512.140
45	1402.540	1433.520	1555.670	1627.740	1724.450	1750.210	1825.500	1860.290	1798.430
50	796.290	784.870	797.390	820.170	874.720	934.550	935.550	1018.710	997.810
55	769.060	758.770	730.660	768.630	789.970	776.820	775.880	777.500	797.780
60	690.800	684.840	692.370	706.820	724.090	712.200	714.020	711.330	723.220
65	611.760	595.090	601.590	616.900	612.950	588.020	612.030	617.130	631.920
70	476.930	448.590	477.760	472.360	481.030	462.660	475.100	473.000	472.520
75	332.870	331.660	339.880	331.600	320.980	335.650	331.460	345.070	330.940
80	201.950	201.550	197.740	198.290	205.240	202.590	198.490	206.340	191.230
85	74.510	73.400	67.300	70.630	64.600	62.880	71.300	69.780	66.830
90	1.660	0.350	0.450	0.000	0.000	0.000	0.000	1.200	0.910

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_48 ~ C1320YKSSXT-200LXXK-WDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6337.51	N.A.	39.80
0-30	10287.59	N.A.	64.60
0-40	12848.77	N.A.	80.70
0-60	14884.71	N.A.	93.50
0-80	15830.78	N.A.	99.40
0-90	15923.42	N.A.	100.00
10-90	14227.27	N.A.	89.30
20-40	6511.26	N.A.	40.90
20-50	7845.32	N.A.	49.30
40-70	2629.76	N.A.	16.50
60-80	946.08	N.A.	5.90
70-80	352.25	N.A.	2.20
80-90	92.64	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	15923.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1696.15
10-20	4641.36
20-30	3950.08
30-40	2561.18
40-50	1334.06
50-60	701.88
60-70	593.82
70-80	352.25
80-90	92.64
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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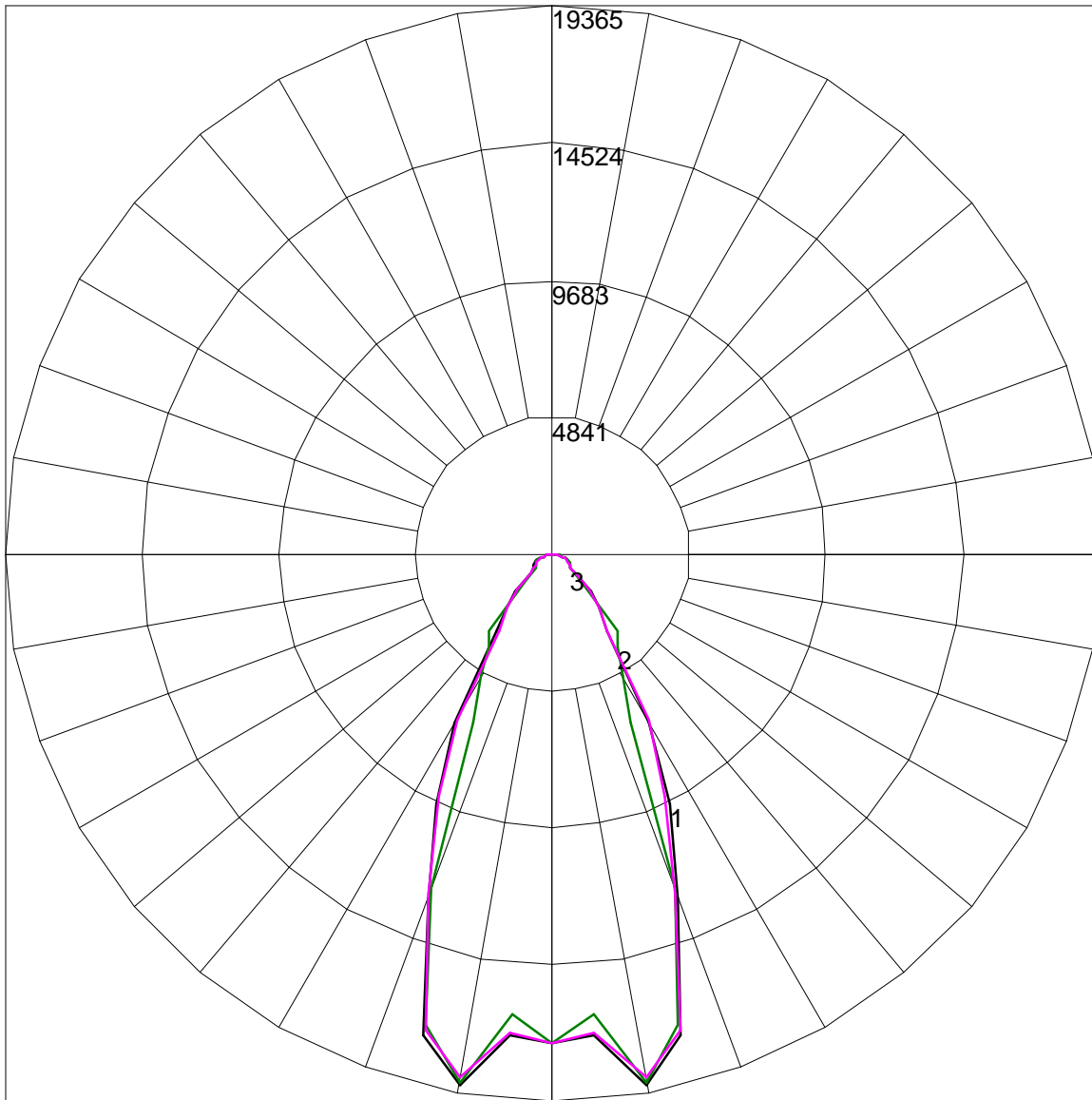
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	56	75	66	60	55	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	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

POLAR GRAPH



Maximum Candela = 19365.32 Located At Horizontal Angle = 85, 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)