

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_44 ~ C1320YKSSXT-200LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_44_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-ND-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.7 Degree Beam Angle, 48.3 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	17705
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)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5514	5111	5583
55	4681	4529	4981
65	5528	5377	5498
75	5511	5314	4867
85	3560	3109	3628

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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	71624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397
5	60034.0596	0799.4306	1277.7896	0831.1296	0743.0706	1312.3796	0723.7626	0724.3286	0709.8796	0715.730
10	46097.3984	4976.0704	5582.5784	4965.4494	5165.0204	4848.1604	5587.0704	5133.8914	5093.1414	5151.148
15	24321.1802	4327.5612	4644.1412	4115.1002	4164.5102	4135.7212	4013.0392	4296.6092	3849.5902	3981.980
20	10242.4401	0184.3301	0232.2501	0194.4401	0089.4901	0181.5501	0138.9801	0492.5801	0658.4201	0466.630
25	6401.130	6219.050	6135.760	5942.190	5648.150	5440.240	5033.410	4522.910	4379.040	4148.320
30	4820.140	4805.420	4266.350	3888.820	3663.640	3389.120	3362.510	3287.740	3297.140	3287.780
35	1753.740	1784.740	2088.580	2326.570	2405.960	2408.430	2255.090	2224.510	2267.720	2287.270
40	829.680	818.420	814.550	792.720	864.690	979.350	1064.180	1095.020	1079.970	1101.730
45	444.950	417.680	413.200	407.310	385.780	401.750	391.670	409.400	415.400	412.410
50	315.290	332.060	340.300	343.670	339.980	313.660	322.560	316.140	341.200	326.910
55	306.420	300.160	318.040	324.560	318.790	304.490	310.470	314.980	332.520	296.470
60	287.670	295.650	316.020	285.420	299.930	288.080	285.320	300.370	277.820	295.120
65	266.590	278.690	282.960	282.690	271.690	268.380	263.930	262.330	258.560	259.300
70	239.150	233.290	239.940	225.630	225.630	231.670	215.730	212.990	214.650	214.320
75	162.760	161.330	155.110	148.020	164.740	149.380	146.280	157.830	153.390	156.940
80	95.420	93.970	89.360	95.690	97.800	89.570	92.040	96.990	102.030	91.350
85	35.410	27.850	30.520	33.500	33.630	31.760	30.490	36.530	32.880	30.920
90	0.000	0.000	0.460	0.460	0.560	0.690	0.460	0.000	0.000	0.860

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	71624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397	1624.5397
5	61327.8406	0937.1996	0794.9226	0702.8286	1045.6606	1316.2196	1072.1096	1300.6026	1803.820
10	45251.0314	5263.0124	5522.6604	5207.1604	5227.9104	5408.0314	5562.1914	5292.4304	5044.988
15	24254.8592	4164.7402	4099.4392	4105.1092	4254.5002	4327.3112	4024.3812	4378.4002	4690.580
20	10569.7801	0525.5301	0432.4201	0098.2701	0063.6901	0121.7709	0974.010	10095.8101	0045.730
25	4302.660	4681.780	4783.500	5107.860	5668.770	6207.010	6275.200	6358.770	6334.150
30	3315.830	3280.220	3269.580	3415.050	3480.350	3912.000	4274.780	4697.020	4853.080
35	2279.710	2367.390	2319.390	2411.240	2446.010	2278.290	2089.810	1853.090	1674.410
40	1072.730	1059.840	1071.960	997.320	833.140	793.620	798.790	876.000	891.160
45	404.060	413.750	387.720	401.310	386.740	410.950	435.990	418.010	450.520
50	327.180	330.240	305.490	322.250	340.020	320.720	330.450	336.710	341.020
55	325.950	327.870	317.230	327.720	321.840	325.670	306.810	314.730	326.040
60	285.310	289.020	289.760	295.010	297.130	284.940	297.240	299.490	307.560
65	270.380	271.740	252.150	258.400	268.840	269.370	263.400	268.140	265.160
70	214.270	214.280	219.080	221.350	222.820	234.670	230.370	237.050	207.820
75	148.620	149.730	163.100	159.230	145.290	162.400	147.580	166.100	143.740
80	89.260	101.750	95.590	89.150	90.390	93.300	91.490	97.340	87.060
85	30.180	38.600	30.320	32.770	30.130	30.000	36.340	28.390	36.080
90	0.460	0.390	0.460	0.410	0.000	0.000	0.460	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	12346.02	N.A.	69.70
0-30	15148.21	N.A.	85.60
0-40	16554.28	N.A.	93.50
0-60	17235.11	N.A.	97.30
0-80	17661.52	N.A.	99.80
0-90	17704.68	N.A.	100.00
10-90	12319.66	N.A.	69.60
20-40	4208.27	N.A.	23.80
20-50	4607.66	N.A.	26.00
40-70	941.65	N.A.	5.30
60-80	426.39	N.A.	2.40
70-80	165.57	N.A.	0.90
80-90	43.17	N.A.	0.20
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	17704.68	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5385.02
10-20	6960.99
20-30	2802.2
30-40	1406.08
40-50	399.39
50-60	281.44
60-70	260.82
70-80	165.57
80-90	43.17
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

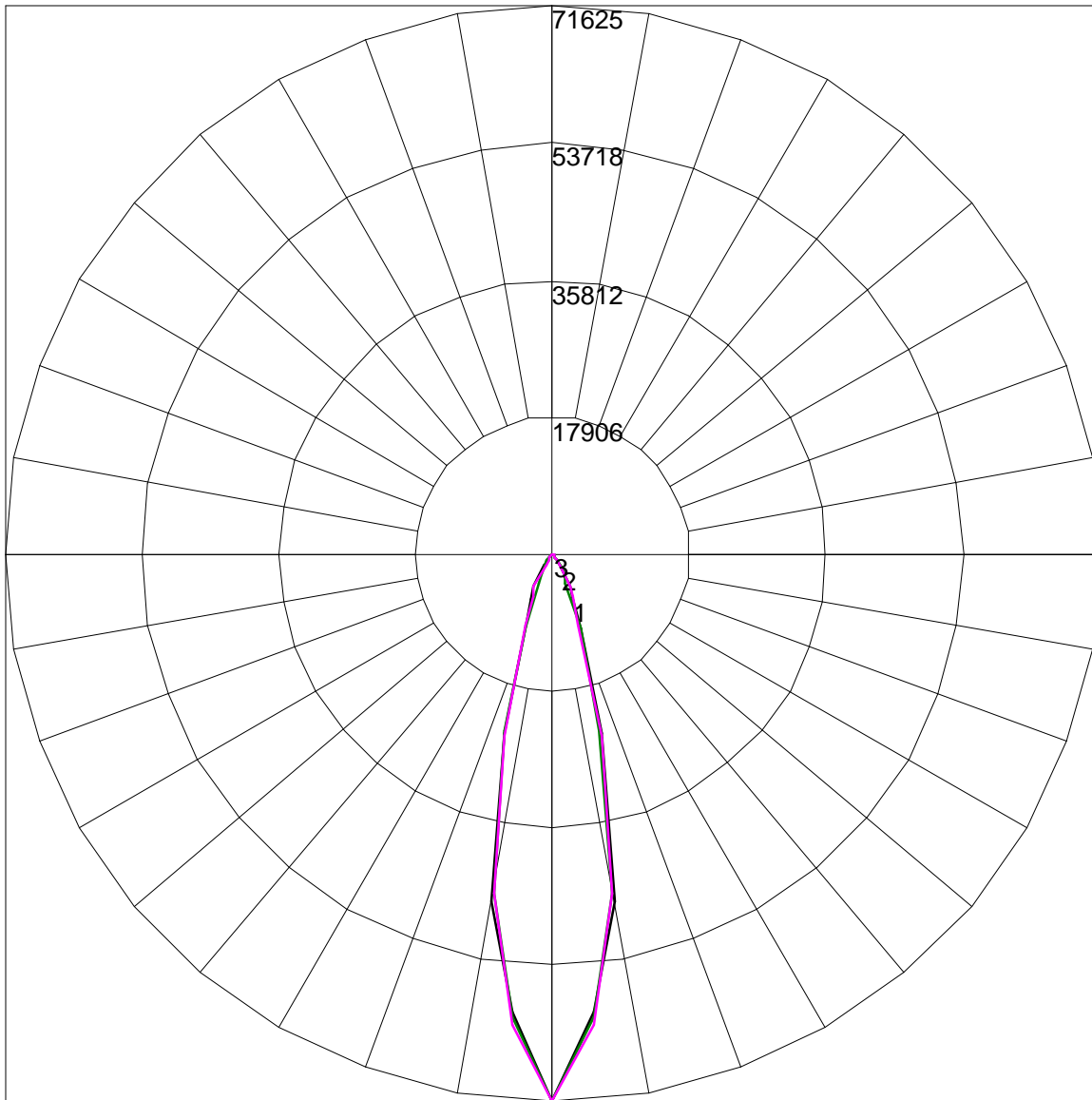
Effective Floor Cavity Reflectance 0.20

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	114	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	92	84	79	76	90	84	79	76	82	78	75	81	78	75	80	77	75	74
8	89	81	76	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

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POLAR GRAPH



Maximum Candela = 71624.539 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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