

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_42 ~ C1320YKFSXT-200LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_42_M-200L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.6 Degree Beam Angle, 52.2 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	18610
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	90
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	2833	2949	3035
55	1555	1777	1814
65	2028	2207	1816
75	2659	2604	2738
85	1991	1857	1707

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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	71535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.406									
5	61460.87960952.53161778.71160983.60261309.55962171.66061679.42261536.69161567.50061843.328									
10	45308.53145251.77044946.28945591.78945937.96145781.18045486.60245391.76245668.44145606.191									
15	24399.77024034.26024519.77024332.64124085.93024190.10924026.42024460.85023876.17024298.539									
20	11246.35010919.70011043.45010987.41011307.14011124.98011009.99010974.56011090.24011018.230									
25	7676.830 7659.320 7522.810 7603.870 7467.780 7551.220 7576.610 7587.380 7523.550 7552.060									
30	5287.520 5221.700 5316.910 5437.180 5484.230 5592.740 5784.970 5878.620 6094.410 5996.460									
35	3069.430 3246.980 3176.680 3211.600 3200.700 3115.560 2724.660 2585.360 2372.090 2342.940									
40	1390.930 1349.990 1247.050 1141.530 967.560 928.470 883.110 884.580 909.650 910.220									
45	228.590 215.310 242.500 239.000 229.230 233.230 239.640 234.230 236.250 237.990									
50	110.260 109.690 104.360 111.860 118.930 108.300 112.250 116.660 126.470 115.860									
55	101.750 107.410 109.890 110.200 111.770 111.380 116.370 127.650 111.570 116.280									
60	104.540 110.350 106.490 115.100 101.900 108.090 104.740 114.500 110.400 108.960									
65	97.820 102.540 102.190 106.990 98.380 107.530 104.400 110.060 104.590 106.450									
70	96.820 93.940 94.450 92.580 103.920 94.550 97.990 101.780 103.150 99.340									
75	78.520 69.030 79.200 76.830 82.610 82.360 75.720 78.350 81.320 76.900									
80	57.360 54.610 57.880 50.690 55.010 51.690 51.620 46.380 51.560 50.010									
85	19.800 21.340 20.610 19.300 19.180 20.830 24.910 21.920 20.490 18.470									
90	0.910 2.180 0.760 0.460 0.860 1.190 0.000 0.460 0.000 1.690									

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	71535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.40671535.406								
5	60857.67261461.55161990.82061207.28161708.53961804.37960847.41060868.64862154.590								
10	45170.39145834.64145220.89146108.87945915.28145378.92245859.30145445.34045519.410								
15	24340.99024240.88124115.30124338.49024164.25024087.84024172.43024265.75024039.980								
20	10908.02011114.01010771.78010971.13011071.36011130.80010976.07011116.41011143.140								
25	7578.070 7667.330 7718.200 7573.400 7607.940 7450.750 7620.700 7514.610 7748.300								
30	5891.890 5899.260 5650.610 5449.190 5439.470 5365.210 5191.660 5154.220 5244.660								
35	2433.900 2602.960 2758.700 2928.500 3186.200 3202.820 3145.750 3212.560 3229.360								
40	903.070 924.970 905.410 874.460 1007.800 1154.630 1307.950 1352.950 1350.310								
45	240.140 239.700 228.940 233.970 230.350 231.590 244.120 226.160 244.870								
50	113.430 114.660 119.420 122.160 119.080 118.590 110.940 107.630 110.930								
55	108.010 112.120 114.400 105.050 113.770 114.600 113.960 110.570 118.750								
60	113.460 106.580 115.980 119.530 107.350 106.300 104.660 106.800 104.810								
65	117.830 102.450 105.370 102.400 100.230 97.940 99.630 95.550 87.580								
70	96.130 100.830 104.090 89.490 90.000 98.560 90.050 84.450 85.130								
75	74.280 80.810 77.940 80.700 79.180 77.540 72.270 80.260 80.860								
80	47.490 46.620 53.560 55.960 50.920 51.770 58.570 56.950 61.760								
85	20.090 20.780 21.520 19.150 21.410 22.260 17.790 19.320 16.980								
90	0.910 0.000 0.160 0.000 0.390 0.460 0.910 0.920 0.780								

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Zone	Lumens	%Lamp	%Fixt
0-20	12462.02	N.A.	67.00
0-30	16078.72	N.A.	86.40
0-40	17991.91	N.A.	96.70
0-60	18402.11	N.A.	98.90
0-80	18584.64	N.A.	99.90
0-90	18610.33	N.A.	100.00
10-90	13191.85	N.A.	70.90
20-40	5529.89	N.A.	29.70
20-50	5839.48	N.A.	31.40
40-70	512.24	N.A.	2.80
60-80	182.53	N.A.	1.00
70-80	80.49	N.A.	0.40
80-90	25.69	N.A.	0.10
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	18610.33	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5418.48
10-20	7043.54
20-30	3616.69
30-40	1913.19
40-50	309.59
50-60	100.61
60-70	102.04
70-80	80.49
80-90	25.69
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

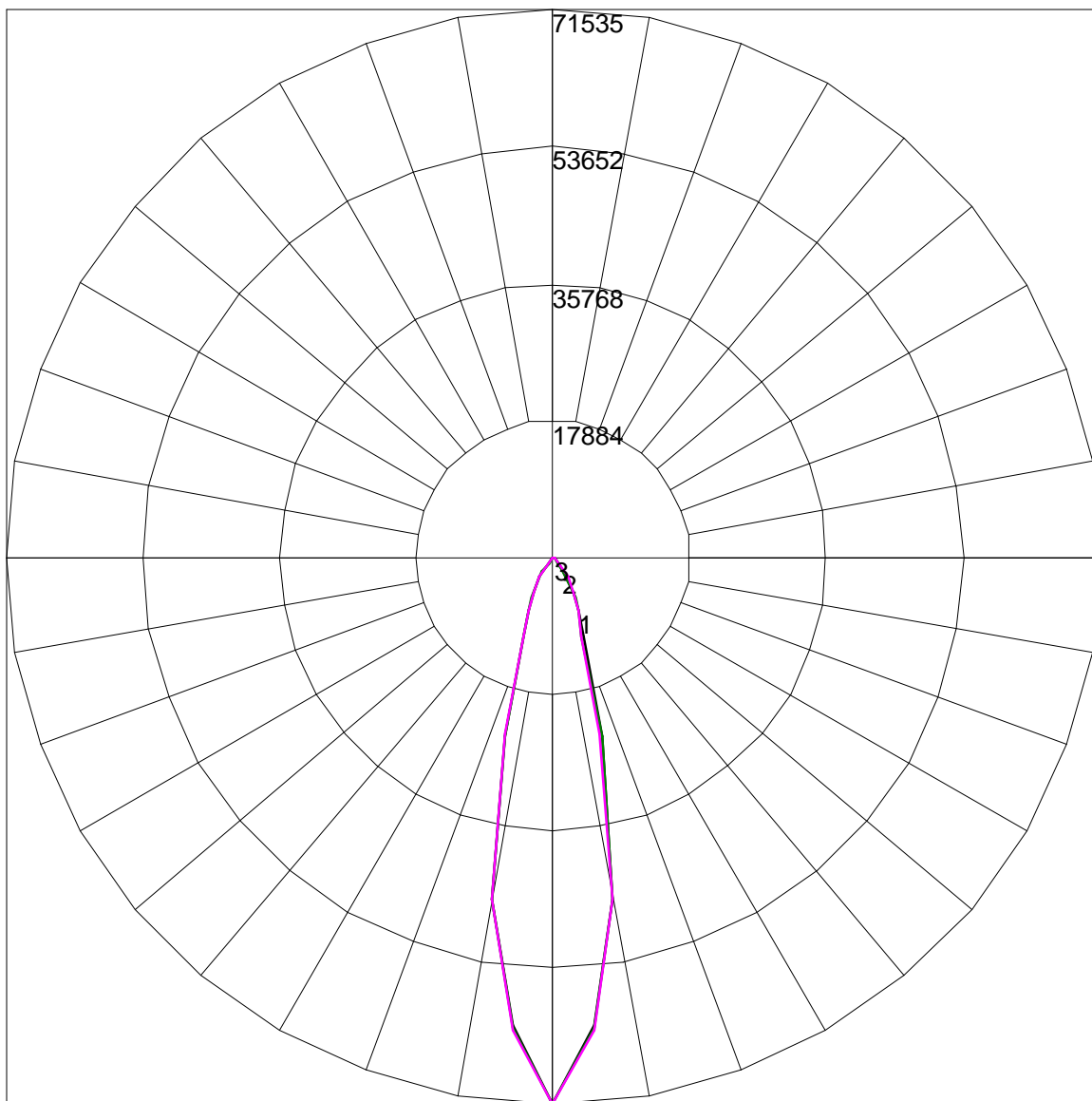
Effective Floor Cavity Reflectance 0.20

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

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POLAR GRAPH



Maximum Candela = 71535.406 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)