

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_38 ~ C1320YKFSXT-80LXXK-XNEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_38

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

[ISSUE DATE]

[TEST DATE] 10/16/2017

[UPDATE] 11/03/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-80L-xxK-XN-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra 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] 11.7 Degree Beam Angle, 21.7 Degree Field Angle

[LAMP] N/A, 9mm

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] XN available for 52L and 80L versions only

[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	5910
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	42
Total Luminaire Watts	142
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.22
Spacing Criterion (Diagonal)	0.22
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	606	618	690
55	583	661	585
65	527	523	492
75	575	577	497
85	571	483	515

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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	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000
5	38823.609	38953.922	38724.469	38727.340	38723.070	38422.930	38935.488	38862.980	39097.531	39133.309
10	6943.320	7071.880	7112.020	7199.150	7983.420	9172.020	10108.850	10274.230	10316.260	10243.200
15	2769.750	2765.170	2805.100	2860.400	2813.530	2861.020	2937.250	2944.230	3006.850	2906.100
20	2259.440	2230.450	2263.700	2314.980	2232.430	2225.140	2246.600	2272.700	2291.850	2244.780
25	2114.380	2071.850	2081.920	2119.380	2070.240	2159.810	2124.710	2179.800	2158.240	2148.860
30	1834.930	1867.720	1864.990	1895.400	1898.740	1959.390	1955.540	1943.090	2016.740	2007.560
35	1275.550	1308.510	1292.980	1290.150	1305.440	1289.320	1283.590	1315.140	1290.240	1274.830
40	180.620	179.350	169.630	168.710	176.130	197.190	197.270	196.240	200.630	201.060
45	48.910	51.640	54.760	52.000	51.770	51.810	57.020	49.620	50.850	49.840
50	41.080	44.000	44.650	45.990	45.820	43.900	45.930	47.500	44.010	44.700
55	38.150	36.590	37.300	39.910	38.850	43.490	41.430	43.960	43.680	43.240
60	31.860	29.570	32.620	32.070	34.000	31.950	33.920	33.000	32.140	31.860
65	25.430	23.610	23.670	24.740	25.270	25.960	26.070	27.990	28.030	25.240
70	18.980	19.330	21.830	20.750	18.580	19.710	19.970	23.310	19.070	19.490
75	16.980	15.950	15.710	15.890	14.870	18.260	15.120	16.130	17.040	17.040
80	9.940	11.210	10.200	11.500	11.540	10.500	10.480	9.680	9.710	11.160
85	5.680	4.620	4.570	4.640	3.600	4.540	4.060	4.700	4.980	4.800
90	0.000	0.000	0.130	0.260	0.000	0.130	0.130	0.260	0.260	0.340

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	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000	66598.000
5	38692.379	38707.078	39008.051	38393.422	38962.441	39766.551	40108.988	40014.039	39813.172
10	10322.250	10148.910	10194.860	8887.730	7842.000	7231.720	7166.950	7165.100	7111.300
15	2937.510	2911.780	2903.540	2890.860	2835.700	2812.220	2716.870	2740.970	2782.430
20	2306.100	2242.870	2261.480	2247.430	2294.750	2267.610	2260.980	2246.370	2242.470
25	2144.510	2125.250	2157.400	2157.980	2130.350	2179.660	2143.450	2125.870	2104.270
30	1961.310	1959.450	1934.870	1952.240	1891.850	1875.820	1826.210	1838.890	1905.680
35	1290.190	1295.850	1297.480	1309.140	1314.510	1291.850	1273.310	1288.080	1249.480
40	202.230	198.510	200.660	187.110	169.590	171.430	171.250	171.140	186.300
45	51.670	50.740	51.000	47.540	52.470	47.990	52.160	55.160	55.650
50	48.740	47.390	46.760	45.970	46.440	42.960	45.950	42.770	44.980
55	43.670	40.600	41.770	40.800	41.090	38.120	35.990	39.540	38.310
60	30.470	31.200	29.720	30.750	30.090	30.430	32.880	32.120	35.410
65	25.210	25.790	26.020	24.950	23.620	22.730	23.690	26.220	23.720
70	19.430	19.650	19.370	19.630	17.270	17.570	19.940	19.060	19.970
75	17.770	14.240	14.620	15.350	14.990	15.800	16.040	15.150	14.690
80	9.850	9.790	8.390	10.130	9.930	10.010	10.290	10.310	9.260
85	5.630	5.080	3.820	4.930	4.600	4.360	4.270	3.970	5.120
90	0.130	0.130	0.000	0.130	0.260	0.130	0.130	0.210	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	4071.61	N.A.	68.90
0-30	5045.04	N.A.	85.40
0-40	5764.54	N.A.	97.50
0-60	5863.45	N.A.	99.20
0-80	5904.93	N.A.	99.90
0-90	5910.25	N.A.	100.00
10-90	2942.26	N.A.	49.80
20-40	1692.92	N.A.	28.60
20-50	1756.48	N.A.	29.70
40-70	124.12	N.A.	2.10
60-80	41.47	N.A.	0.70
70-80	16.27	N.A.	0.30
80-90	5.32	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	5910.25	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2967.99
10-20	1103.63
20-30	973.43
30-40	719.50
40-50	63.55
50-60	35.36
60-70	25.20
70-80	16.27
80-90	5.32
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

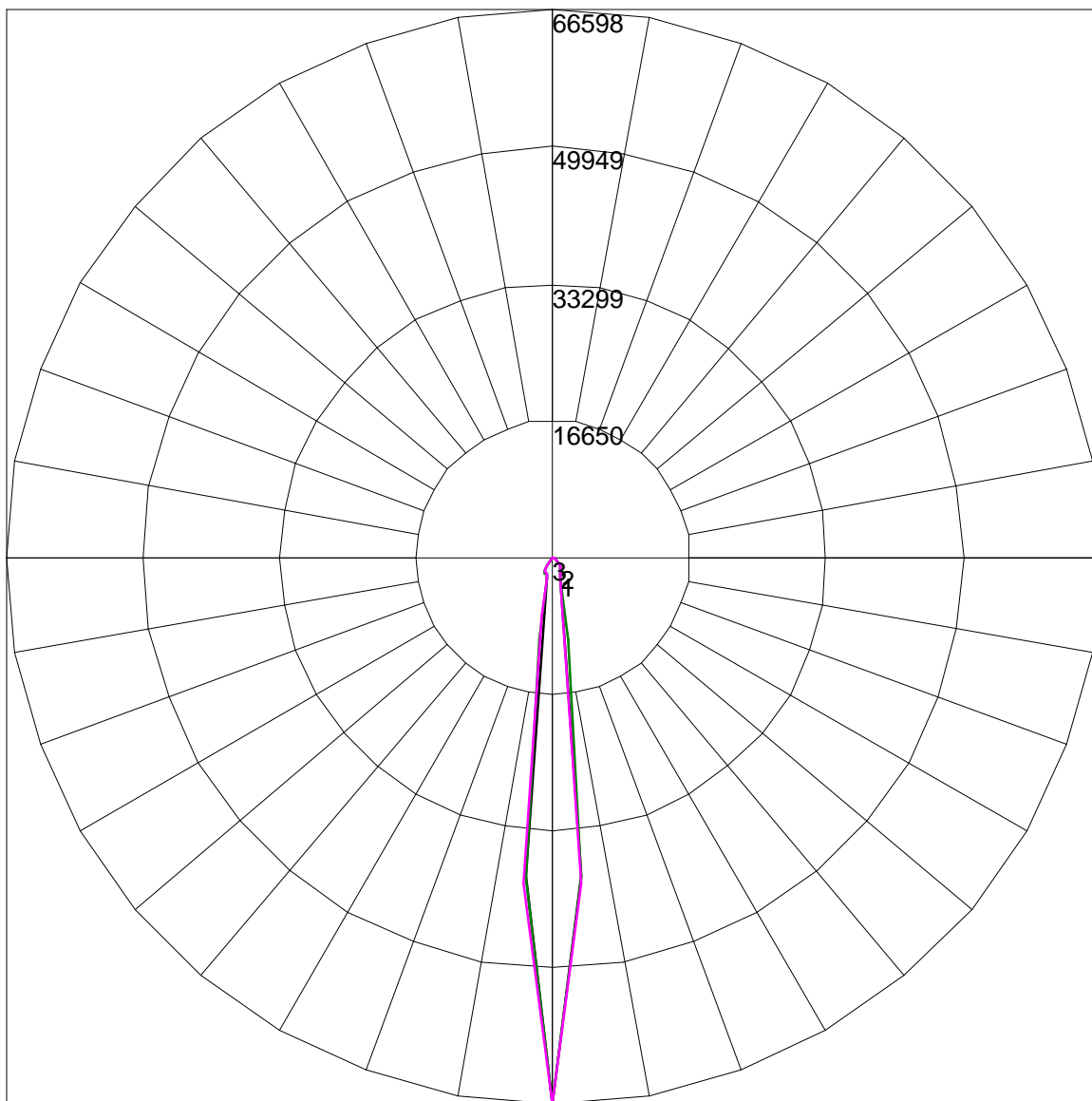
Effective Floor Cavity Reflectance 0.20

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	115	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90
4	104	99	95	91	102	98	94	91	96	92	90	94	91	89	92	90	88	87
5	101	95	91	88	100	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	88	85	83	87	85	83	82
7	95	89	85	82	94	88	84	82	87	84	81	86	83	81	85	82	80	79
8	93	86	82	79	92	86	82	79	85	81	79	84	81	79	83	80	78	77
9	91	84	80	77	90	84	80	77	83	79	77	82	79	77	81	79	76	75
10	88	82	78	75	88	82	78	75	81	77	75	80	77	75	80	77	75	74

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POLAR GRAPH



Maximum Candela = 66598 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)