

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_40 ~ C1320YKSSXT-80LXXK-XNEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_40

[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] C1320YKSSXT-80L-xxK-XN-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra Narrow Beam

[OTHER] Integral Straight 3" Matte White (interior) Deep Snoot for Additional Cutoff

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] 12.0 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	5659
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	40
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	1258	1199	1202
55	1232	1257	1224
65	1445	1381	1369
75	1482	1370	1491
85	669	982	787

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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	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64
5	39940.71	140187.32	840442.19	139688.25	39283.44	939096.89	838656.94	938549.91	1038423.71	938222.05
10	7006.410	7049.620	7002.800	7013.990	8028.360	8785.830	9995.360	9908.000	9968.210	9964.970
15	2879.590	2823.510	2841.900	2865.130	2827.580	2942.700	2924.850	2961.050	2973.130	2949.040
20	2242.710	2189.320	2191.680	2182.430	2176.070	2176.170	2155.530	2191.540	2173.480	2162.120
25	1917.690	1855.650	1866.680	1821.930	1773.590	1757.420	1701.400	1704.970	1678.250	1680.480
30	1564.480	1512.390	1480.120	1422.610	1371.790	1319.910	1277.340	1260.420	1228.180	1210.240
35	926.560	922.310	896.860	863.710	882.710	869.430	850.960	826.970	821.700	830.250
40	156.350	171.620	179.680	182.070	175.630	192.360	204.540	202.250	197.500	203.960
45	101.540	96.770	98.180	95.560	97.300	99.330	93.490	98.700	96.810	96.750
50	89.960	94.440	87.000	89.870	86.870	87.650	84.980	85.920	86.580	84.450
55	80.630	83.930	80.650	80.300	78.780	79.720	82.380	80.880	79.870	82.290
60	71.050	74.250	71.260	74.850	71.990	77.880	71.380	77.710	75.890	75.410
65	69.680	64.880	65.460	67.930	66.330	69.610	70.540	69.520	71.210	66.580
70	58.550	55.470	57.510	58.610	58.420	56.920	56.580	56.460	55.790	55.560
75	43.760	40.430	47.920	44.290	40.850	42.540	43.860	42.010	43.780	40.460
80	26.600	26.680	27.660	25.710	27.000	25.920	24.300	25.000	23.470	25.960
85	6.650	9.660	9.940	10.500	9.320	9.700	7.790	9.110	10.040	9.770
90	0.160	0.130	0.000	0.000	0.260	0.000	0.130	0.310	0.130	0.000

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	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64	66476.64
5	38240.44	138812.10	938547.30	138558.23	39263.37	140079.44	939938.68	40016.41	1039707.80
10	10027.44	9877.850	9727.400	8922.080	8061.730	7142.120	7182.000	7055.140	7205.580
15	3000.840	2964.940	2972.630	2954.710	2766.290	2753.360	2750.830	2661.130	2711.920
20	2169.420	2185.760	2218.390	2187.310	2097.510	2134.330	2113.390	2113.040	2155.410
25	1666.580	1710.890	1730.790	1759.580	1805.030	1863.100	1906.020	1895.810	1876.180
30	1226.570	1239.600	1278.500	1306.720	1366.630	1426.570	1471.640	1480.700	1519.520
35	828.640	834.630	857.470	879.250	881.330	895.310	896.420	905.000	911.990
40	204.890	200.950	201.820	201.220	174.060	175.950	165.840	169.390	164.880
45	94.520	96.540	94.790	94.810	101.070	99.810	97.040	99.850	97.030
50	86.470	87.730	82.380	87.200	85.350	85.520	87.000	93.080	90.300
55	84.090	79.750	76.120	80.830	81.850	81.650	77.580	78.220	80.120
60	74.080	70.370	74.030	74.840	71.120	73.870	78.120	72.080	72.720
65	69.470	68.840	68.010	62.320	64.080	63.250	65.950	64.730	66.020
70	53.980	52.220	57.330	56.780	54.330	57.630	59.580	55.960	56.120
75	41.230	40.980	39.080	39.500	39.950	41.910	44.240	45.590	44.050
80	23.660	27.320	26.530	26.680	24.570	26.380	26.900	26.690	25.080
85	10.150	9.840	8.820	8.880	7.930	8.790	10.150	8.710	7.830
90	0.000	0.130	0.000	0.000	0.000	0.000	0.130	0.510	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	4059.54	N.A.	71.70
0-30	4870.98	N.A.	86.10
0-40	5375.27	N.A.	95.00
0-60	5537.4	N.A.	97.80
0-80	5647.04	N.A.	99.80
0-90	5659.15	N.A.	100.00
10-90	2689.18	N.A.	47.50
20-40	1315.73	N.A.	23.20
20-50	1405.65	N.A.	24.80
40-70	227.67	N.A.	4.00
60-80	109.64	N.A.	1.90
70-80	44.10	N.A.	0.80
80-90	12.11	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	5659.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2969.97
10-20	1089.58
20-30	811.44
30-40	504.28
40-50	89.92
50-60	72.21
60-70	65.54
70-80	44.10
80-90	12.11
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

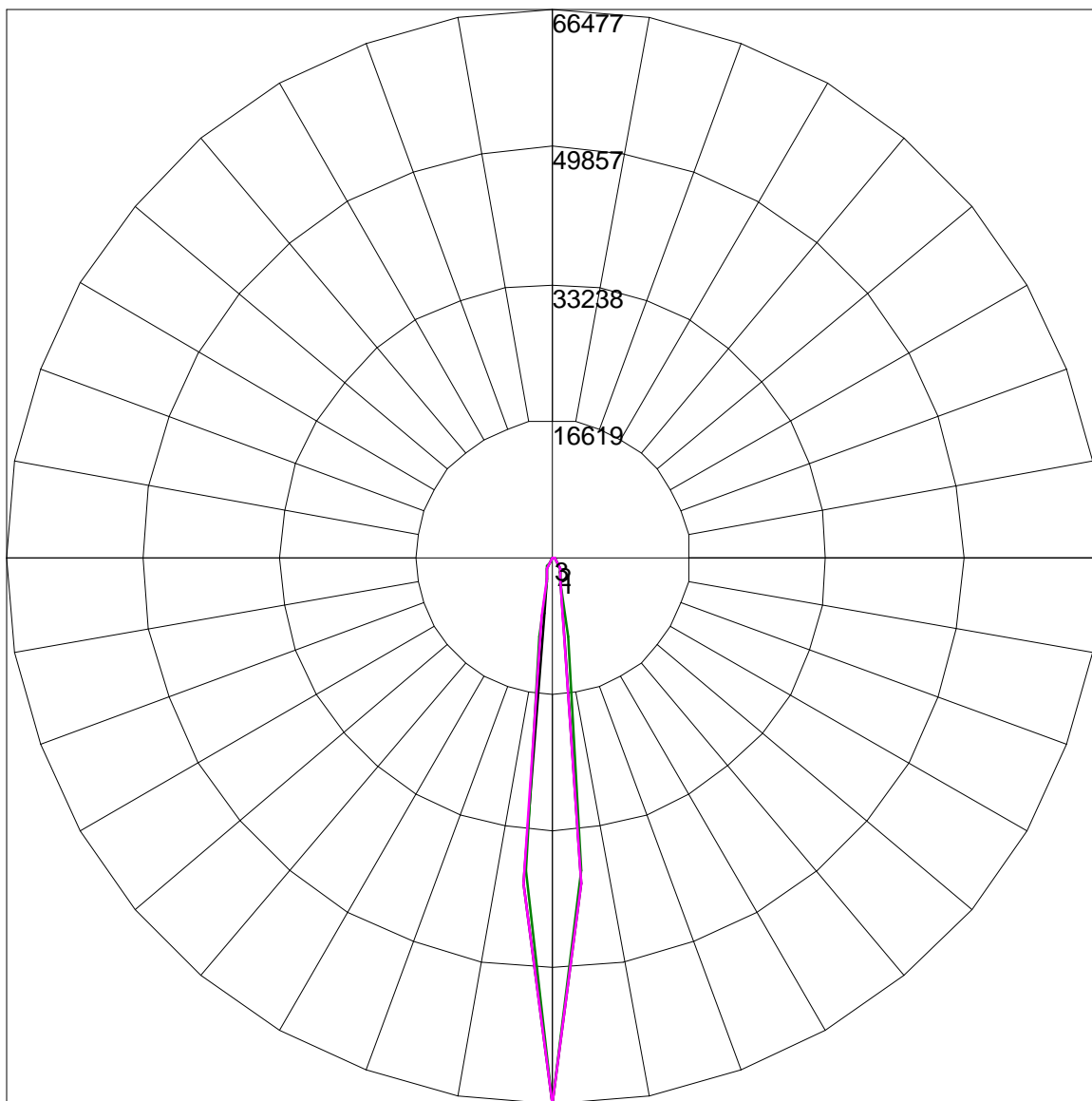
Effective Floor Cavity Reflectance 0.20

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	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	94	91	95	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	89	86	83	87	85	83	82
7	96	89	85	82	95	89	85	82	88	84	82	86	83	81	86	83	81	80
8	93	87	83	80	92	86	82	80	85	82	79	85	81	79	84	81	79	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75

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POLAR GRAPH



Maximum Candela = 66476.641 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)