

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_41 ~ C1320YKSSXT-80LXXK-XNEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_41

[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-MBI

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

[OTHER] Integral Straight 3" Matte Black (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] 12.1 Degree Beam Angle, 21.8 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	5663
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	1145	1138	1234
55	1188	1167	1241
65	1465	1451	1256
75	1430	1403	1508
85	927	853	1030

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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	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102
5	40471.180	40388.961	40063.410	40252.551	39215.391	39126.621	38943.359	38273.898	38500.180	38537.629
10	7238.870	7168.010	7210.350	7255.990	8051.870	8944.120	9881.570	9887.620	10003.870	9935.540
15	2846.950	2839.840	2900.910	2858.720	2896.990	2913.010	2950.360	2975.470	2943.650	2893.520
20	2206.600	2160.900	2150.030	2160.020	2159.590	2174.960	2177.330	2135.590	2195.940	2162.800
25	1853.680	1859.280	1814.450	1793.120	1780.550	1785.000	1754.140	1697.660	1681.320	1697.260
30	1568.950	1511.860	1479.600	1427.370	1388.970	1345.390	1301.840	1266.790	1258.620	1249.220
35	914.480	909.140	928.410	891.420	901.230	883.980	850.580	840.990	809.900	831.280
40	175.400	160.820	173.170	170.220	181.440	198.350	194.310	196.700	203.550	202.480
45	92.430	98.540	98.250	99.310	92.740	95.240	96.210	100.080	95.300	91.790
50	89.410	92.940	85.650	85.400	87.530	84.290	85.480	89.510	86.300	87.310
55	77.740	77.760	82.300	81.390	82.010	79.360	74.810	80.310	77.440	76.360
60	76.950	72.590	75.370	75.980	70.460	75.240	77.780	75.520	74.750	77.320
65	70.630	67.990	65.880	67.430	65.320	65.480	68.880	65.180	68.450	69.970
70	58.430	55.230	57.840	53.350	56.630	60.370	58.640	54.260	55.740	58.110
75	42.250	43.790	41.340	44.460	43.290	43.430	40.120	40.490	39.790	41.430
80	26.180	26.920	24.780	25.080	25.270	25.910	27.000	24.880	23.930	25.060
85	9.220	8.620	8.670	10.030	9.330	7.640	8.920	9.210	8.460	8.480
90	0.480	0.110	0.130	0.000	0.130	0.000	0.130	0.000	0.220	0.130

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	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102	66901.102
5	38645.660	38571.520	38822.500	38020.211	38319.859	38995.770	38547.820	38818.852	39008.730
10	10025.100	9884.900	9923.720	8788.260	7800.210	7130.380	7103.310	7039.910	7117.900
15	2970.660	2968.440	2898.610	2885.870	2832.590	2783.640	2789.820	2779.500	2825.400
20	2186.390	2111.260	2134.690	2175.980	2201.930	2227.080	2197.340	2211.650	2216.030
25	1703.060	1705.060	1737.390	1777.190	1803.500	1843.930	1906.130	1912.140	1946.030
30	1257.790	1263.360	1316.620	1368.900	1364.640	1421.180	1463.330	1513.930	1514.530
35	821.820	831.510	828.050	874.680	890.520	878.360	894.250	911.730	896.380
40	205.470	198.040	205.950	208.310	171.260	168.210	172.210	161.210	177.020
45	96.690	91.600	95.010	97.410	100.490	99.910	99.960	103.420	99.580
50	82.060	87.060	84.290	90.150	89.430	92.370	90.970	89.240	85.240
55	85.090	75.660	78.390	82.200	76.860	80.300	77.670	73.660	81.250
60	72.950	74.860	75.700	75.630	69.540	75.710	75.370	80.300	72.990
65	65.040	64.730	65.140	67.700	63.440	66.770	64.120	63.170	60.570
70	57.680	58.850	54.280	55.390	57.980	55.220	54.530	55.290	56.590
75	41.310	43.490	41.830	41.400	42.690	41.820	43.230	43.920	44.550
80	24.540	24.340	27.040	24.710	24.040	26.070	26.000	28.060	26.890
85	8.750	9.750	10.060	10.300	8.850	10.860	8.110	8.730	10.240
90	0.000	0.260	0.110	0.130	0.110	0.260	0.130	0.160	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	4057.99	N.A.	71.70
0-30	4873.35	N.A.	86.10
0-40	5380.46	N.A.	95.00
0-60	5542.01	N.A.	97.90
0-80	5651.34	N.A.	99.80
0-90	5663.31	N.A.	100.00
10-90	2698.22	N.A.	47.60
20-40	1322.46	N.A.	23.40
20-50	1412.21	N.A.	24.90
40-70	226.91	N.A.	4.00
60-80	109.33	N.A.	1.90
70-80	43.98	N.A.	0.80
80-90	11.97	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	5663.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2965.09
10-20	1092.9
20-30	815.35
30-40	507.11
40-50	89.75
50-60	71.80
60-70	65.36
70-80	43.98
80-90	11.97
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

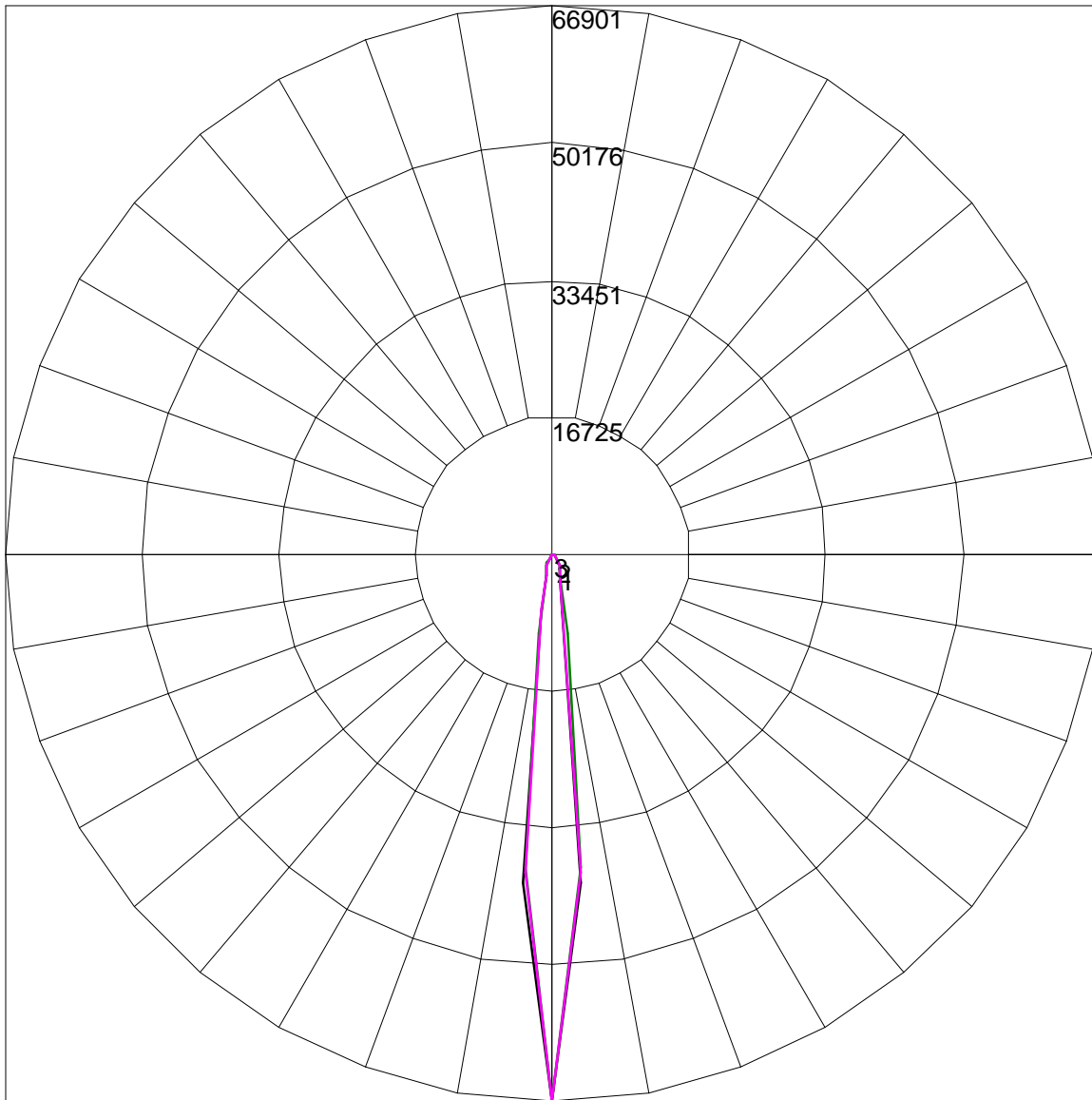
Effective Floor Cavity Reflectance 0.20

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	93	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	87	84	81	86	83	81	85	83	81	80
8	93	87	83	80	92	86	82	80	85	82	79	84	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 = 66901.102 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)