

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_52 ~ C1320YKSSXT-80LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_52_M-80L

[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-80L-xxK-XW-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra Wide 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] 49.3 Degree Beam Angle, 86.6 Degree Field Angle

[LAMPCAT] LED 2000lm

[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, scaled from 200L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6470
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	68
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.76
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	8729	6434	8846
55	4511	4503	4844
65	4625	4653	4829
75	4402	4532	4433
85	2603	2943	2769

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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	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932
5	7596.640	7454.485	7426.840	7584.916	7497.248	7367.376	7577.125	7444.348	7597.180	7462.296
10	7242.812	7280.204	7172.253	7317.916	7256.836	7164.368	7159.976	7169.048	7164.828	7201.492
15	6650.992	6708.544	6683.456	6609.316	6649.092	6492.168	6518.736	6603.956	6609.952	6623.544
20	5119.300	5081.568	5082.556	5193.196	5114.572	5055.328	5126.228	5098.120	5101.112	5038.200
25	4120.412	4032.880	3930.208	3954.856	3729.752	3621.560	3418.552	3246.120	3198.872	3198.108
30	3063.204	2916.136	2664.492	2542.856	2376.988	2373.260	2314.600	2295.740	2225.860	2290.212
35	1564.148	1564.928	1752.812	1820.548	1860.016	1815.928	1767.176	1734.724	1740.652	1742.000
40	1066.304	994.852	975.084	969.260	1000.696	1066.564	1197.628	1315.320	1338.444	1374.164
45	704.400	711.480	688.220	672.728	674.672	647.876	597.056	551.064	524.784	519.140
50	362.232	367.516	355.972	341.940	325.520	317.820	323.384	298.500	303.192	311.888
55	295.264	298.452	299.424	289.944	288.936	295.124	279.784	290.140	284.496	294.756
60	279.648	279.768	284.344	275.252	270.460	273.148	268.612	265.528	261.836	255.736
65	223.056	236.444	243.040	227.824	228.568	234.452	232.100	226.708	233.448	224.388
70	172.268	175.500	183.964	179.460	175.008	172.500	178.496	181.384	178.348	184.912
75	130.028	124.112	124.748	125.096	124.784	131.560	134.732	126.988	130.228	133.860
80	77.540	76.744	77.148	78.104	82.800	80.532	79.508	78.804	72.756	80.064
85	25.892	25.824	29.900	29.644	25.956	28.020	25.844	27.844	25.968	29.268
90	0.732	0.000	0.328	0.184	0.528	0.136	0.820	0.180	0.316	0.548

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	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932	7343.932
5	7634.489	7633.608	7555.268	7521.740	7700.148	7668.225	7502.496	7686.812	7783.453
10	7142.780	7229.689	7302.485	7210.425	7197.321	7142.004	7240.836	7149.372	7154.472
15	6605.132	6768.676	6674.376	6642.036	6596.732	6637.292	6615.672	6651.252	6711.004
20	5207.524	5136.788	5067.064	5090.500	5049.488	5182.564	5104.500	5120.232	5021.592
25	3197.880	3231.592	3403.764	3573.548	3736.428	3932.100	4081.852	4055.880	4082.100
30	2276.292	2300.516	2288.924	2345.108	2471.580	2563.176	2708.304	2942.580	3010.584
35	1721.828	1781.828	1729.304	1839.688	1829.652	1747.736	1692.256	1590.692	1598.144
40	1364.540	1295.288	1183.076	1059.452	979.088	948.324	1006.336	966.804	1009.832
45	527.048	559.996	589.008	634.780	670.120	683.008	677.820	719.468	713.772
50	303.416	306.724	301.344	292.020	330.984	340.200	349.664	366.388	384.784
55	283.532	291.504	288.608	298.852	286.044	298.572	289.856	301.832	317.084
60	260.668	255.624	261.668	275.144	265.368	271.604	276.840	276.268	275.428
65	225.696	220.004	227.944	227.856	233.088	233.896	237.628	237.404	232.868
70	182.728	180.576	180.076	180.992	185.192	179.536	182.248	176.532	178.680
75	129.964	135.812	123.608	132.412	127.516	130.812	126.980	131.296	130.940
80	79.252	79.068	76.112	76.292	74.892	76.464	74.892	75.836	78.236
85	27.164	26.092	25.992	29.784	27.304	25.972	27.032	30.576	27.544
90	0.164	0.000	0.344	0.088	0.000	0.312	0.460	0.000	0.316

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Zone	Lumens	%Lamp	%Fixt
0-20	2494.41	N.A.	38.60
0-30	4189.94	N.A.	64.80
0-40	5290.00	N.A.	81.80
0-60	6072.13	N.A.	93.80
0-80	6433.88	N.A.	99.40
0-90	6470.05	N.A.	100.00
10-90	5763.86	N.A.	89.10
20-40	2795.59	N.A.	43.20
20-50	3312.74	N.A.	51.20
40-70	1007.84	N.A.	15.60
60-80	361.75	N.A.	5.60
70-80	136.04	N.A.	2.10
80-90	36.17	N.A.	0.60
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	6470.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	706.18
10-20	1788.23
20-30	1695.53
30-40	1100.07
40-50	517.15
50-60	264.98
60-70	225.71
70-80	136.04
80-90	36.17
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

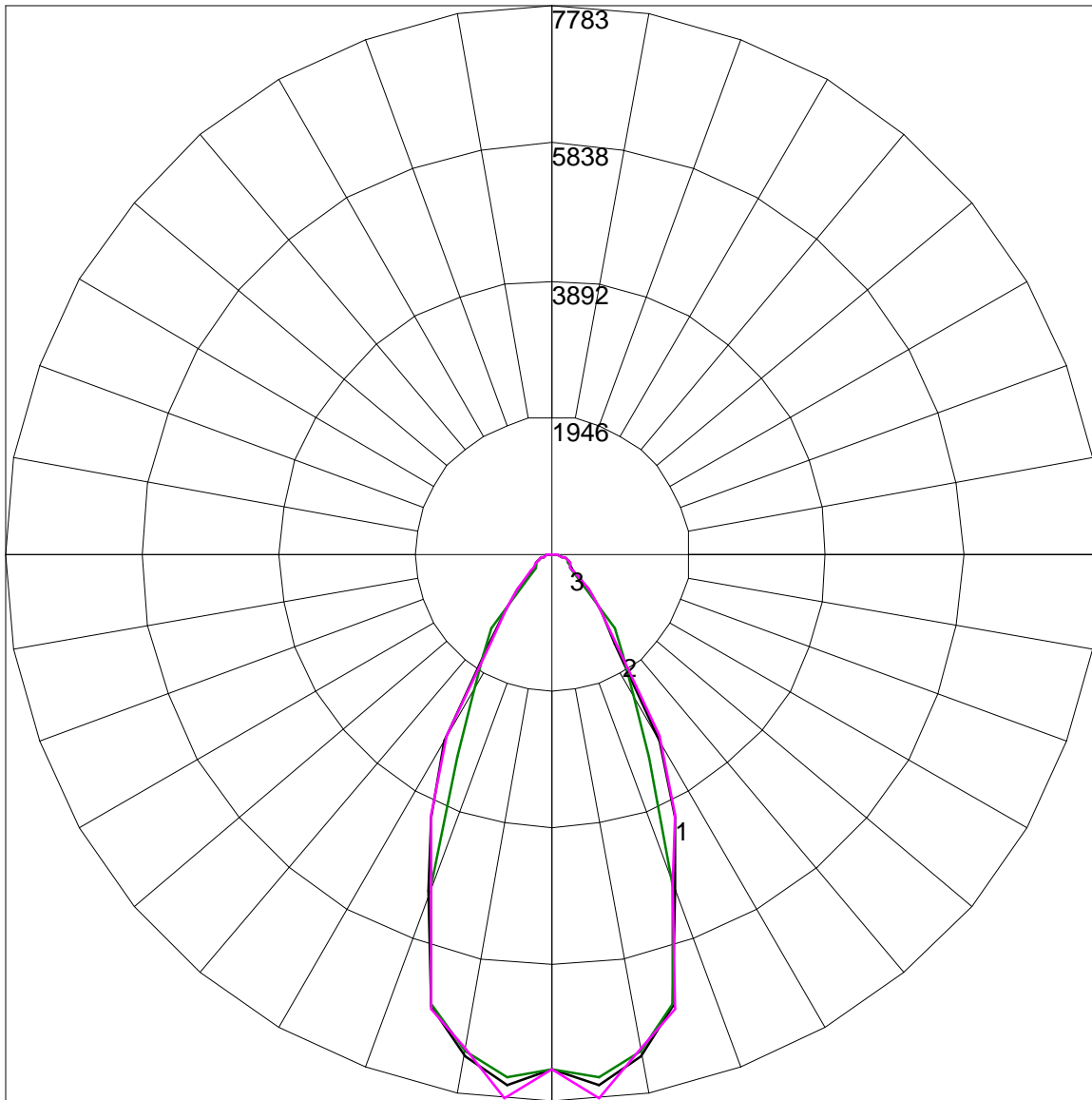
Effective Floor Cavity Reflectance 0.20

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57
8	77	66	60	56	75	66	60	56	65	59	55	64	59	55	63	58	55	53
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47

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POLAR GRAPH



Maximum Candela = 7783.453 Located At Horizontal Angle = 90, Vertical Angle = 5

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

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

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