

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_37 ~ C1320YKFSXT-80LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_37_M-80L

[TESTLAB] Photopia 2017.2.0 see: www.ltiopics.com/ies

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium 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] 38.3 Degree Beam Angle, 86.1 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 120L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7024
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
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	7787	12195	7252
55	2528	2653	2611
65	2850	2899	2757
75	2906	2844	2939
85	1694	1765	1835

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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	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720
5	9853.246	9870.860	9841.619	9798.617	10068.490	9987.113	10106.030	9967.285	10045.140	9992.593
10	8552.554	8549.574	8495.058	8613.637	8671.240	8515.753	8629.065	8634.938	8598.343	8614.064
15	6547.694	6367.785	6412.494	6494.898	6430.722	6333.510	6516.986	6493.665	6427.201	6473.504
20	5199.853	5292.458	5137.610	5129.270	5054.286	5112.349	5108.602	5147.064	5127.416	5161.171
25	4243.026	4235.438	4337.584	4296.822	4223.518	4193.323	4168.528	4241.925	4231.825	4220.131
30	2908.132	2843.816	2885.851	2915.539	2914.252	2998.797	2950.721	3130.737	3146.484	3210.681
35	1948.537	2076.377	2085.664	2087.718	1988.006	1881.454	1769.368	1644.416	1536.477	1569.325
40	1689.618	1639.469	1481.001	1370.349	1280.064	1233.435	1236.022	1203.327	1224.988	1233.928
45	628.345	690.355	793.480	857.470	967.322	957.455	956.148	972.795	948.221	984.003
50	300.388	320.429	317.503	326.603	351.231	393.366	441.909	474.217	509.125	499.105
55	165.442	168.835	170.115	179.256	166.942	175.269	170.655	172.555	174.762	173.662
60	145.287	146.941	143.160	148.221	144.861	147.561	147.601	140.280	149.074	152.214
65	137.460	137.434	122.653	138.947	141.040	137.980	138.560	137.600	142.914	139.834
70	130.487	121.966	126.220	124.053	114.779	115.986	111.499	119.273	118.546	116.019
75	85.818	89.598	90.871	87.111	91.631	91.271	85.958	86.098	85.204	83.984
80	46.536	50.096	49.316	51.483	54.209	55.456	50.516	47.982	50.123	49.449
85	16.848	19.974	18.968	17.354	17.054	16.061	18.788	17.721	18.674	17.554
90	0.367	0.700	0.520	0.547	0.140	0.140	0.247	0.153	0.680	0.607

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	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720	10854.720
5	9927.616	10020.510	9956.465	10036.210	10119.640	9795.590	10004.600	9983.501	10020.030
10	8572.635	8576.496	8415.808	8562.068	8511.146	8587.189	8495.185	8449.076	8620.351
15	6412.667	6450.203	6290.568	6436.295	6355.058	6399.173	6387.493	6438.482	6412.587
20	5067.793	5024.025	5055.926	5178.166	5169.985	5129.917	5157.051	5192.586	5117.003
25	4220.098	4280.294	4193.296	4235.718	4245.379	4260.413	4230.745	4255.179	4227.918
30	3110.856	3048.686	2955.234	2955.728	2911.832	2903.925	2919.939	2895.118	2931.620
35	1618.794	1673.257	1732.593	1895.968	2011.161	2108.879	2094.665	2053.116	2044.996
40	1226.741	1196.520	1289.658	1261.136	1322.946	1365.928	1559.518	1612.041	1737.954
45	980.176	969.762	961.121	991.890	936.227	895.058	778.466	692.535	585.203
50	512.619	468.270	453.276	401.967	346.091	315.229	309.355	308.209	307.055
55	176.789	173.349	174.529	183.122	166.995	166.435	169.822	173.662	170.929
60	142.220	147.341	146.627	148.101	146.767	138.660	140.860	142.527	149.847
65	144.447	137.467	134.813	139.447	137.967	142.420	136.520	139.894	132.967
70	120.139	117.826	117.886	118.099	129.220	124.540	125.040	126.406	127.646
75	83.157	86.391	85.824	85.704	86.984	85.604	89.411	90.271	86.798
80	48.489	50.623	49.609	49.709	54.583	52.769	47.109	48.689	53.223
85	17.828	15.781	18.448	17.248	20.181	19.114	18.861	17.348	18.254
90	0.347	0.313	0.520	0.673	1.047	0.620	0.180	0.340	0.273

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Zone	Lumens	%Lamp	%Fixt
0-20	2752.65	N.A.	39.20
0-30	4649.12	N.A.	66.20
0-40	5904.63	N.A.	84.10
0-60	6774.42	N.A.	96.40
0-80	7000.27	N.A.	99.70
0-90	7023.97	N.A.	100.00
10-90	6112.41	N.A.	87.00
20-40	3151.98	N.A.	44.90
20-50	3825.56	N.A.	54.50
40-70	1004.33	N.A.	14.30
60-80	225.85	N.A.	3.20
70-80	91.31	N.A.	1.30
80-90	23.70	N.A.	0.30
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	7023.97	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	911.56
10-20	1841.09
20-30	1896.47
30-40	1255.51
40-50	673.57
50-60	196.22
60-70	134.53
70-80	91.31
80-90	23.70
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

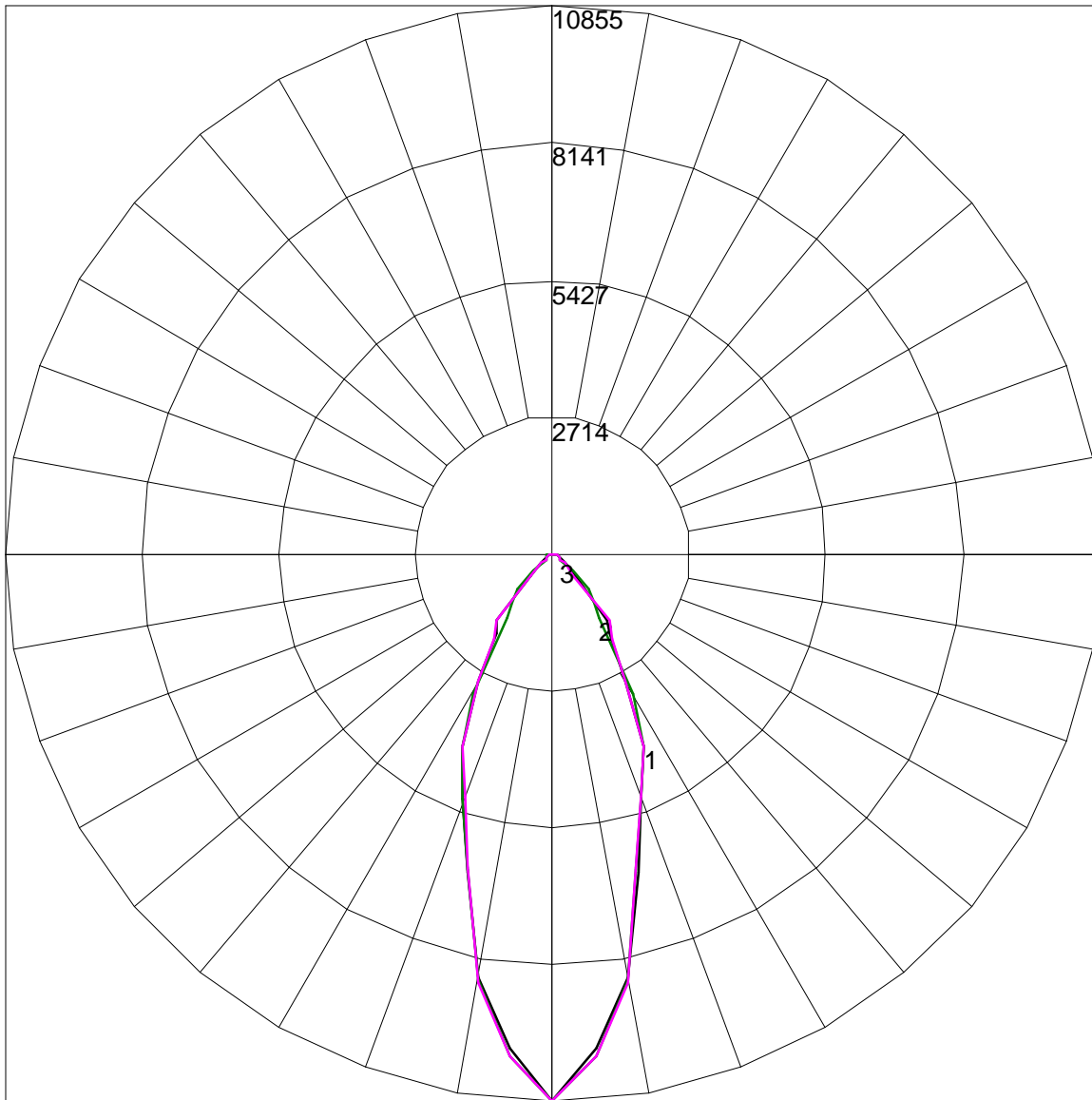
Effective Floor Cavity Reflectance 0.20

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	65	63
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	54	51	59	54	51	58	54	51	49

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POLAR GRAPH



Maximum Candela = 10854.72 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)