

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_37 ~ C1320YKFSXT-160LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_37_M-160L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

[LUMCAT] C1320YKFSXT-160L-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 4000lm

[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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	13517
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	85
Total Luminaire Watts	159.6
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	14985	23467	13956
55	4864	5106	5025
65	5485	5580	5306
75	5592	5472	5655
85	3260	3396	3532

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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	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859
5	18961.619	18995.520	18939.250	18856.490	19375.840	19219.240	19448.090	19181.080	19330.910	19229.779
10	16458.570	16452.830	16347.920	16576.119	16686.971	16387.750	16605.801	16617.109	16546.680	16576.939
15	12600.410	12254.190	12340.230	12498.810	12375.300	12188.230	12541.310	12496.430	12368.530	12457.630
20	10006.620	10184.830	9886.836	9870.786	9726.487	9838.224	9831.013	9905.029	9867.219	9932.178
25	8165.294	8150.694	8347.262	8268.819	8127.754	8069.647	8021.932	8163.177	8143.740	8121.236
30	5596.420	5472.649	5553.542	5610.674	5608.198	5770.895	5678.378	6024.801	6055.106	6178.646
35	3749.773	3995.788	4013.660	4017.612	3825.726	3620.677	3404.979	3164.519	2956.802	3020.015
40	3251.507	3155.000	2850.043	2637.104	2463.360	2373.627	2378.605	2315.687	2357.371	2374.576
45	1209.189	1328.521	1526.975	1650.118	1861.518	1842.529	1840.014	1872.051	1824.760	1893.618
50	578.068	616.635	611.003	628.516	675.910	756.996	850.411	912.585	979.763	960.479
55	318.376	324.907	327.370	344.960	321.263	337.288	328.410	332.066	336.313	334.196
60	279.591	282.773	275.499	285.237	278.770	283.966	284.043	269.956	286.879	292.922
65	264.529	264.478	236.034	267.390	271.419	265.530	266.646	264.798	275.024	269.096
70	251.109	234.712	242.898	238.728	220.881	223.204	214.569	229.529	228.130	223.268
75	165.148	172.422	174.873	167.637	176.336	175.643	165.417	165.687	163.967	161.620
80	89.553	96.405	94.904	99.073	104.321	106.720	97.213	92.338	96.456	95.160
85	32.421	38.439	36.501	33.396	32.819	30.907	36.155	34.102	35.937	33.781
90	0.706	1.347	1.001	1.052	0.269	0.269	0.475	0.295	1.309	1.168

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	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859	20888.859
5	19104.740	19283.520	19160.260	19313.721	19474.270	18850.670	19252.891	19019.850	19282.590
10	16497.211	16504.641	16195.410	16476.881	16378.880	16525.221	16348.170	16259.430	16589.039
15	12340.560	12412.790	12105.590	12386.030	12229.700	12314.590	12292.120	12390.240	12340.410
20	9752.481	9668.252	9729.643	9964.881	9949.139	9872.031	9924.249	9992.633	9847.179
25	8121.172	8237.014	8069.595	8151.233	8169.823	8198.755	8141.661	8188.683	8136.221
30	5986.542	5866.902	5687.064	5688.014	5603.541	5588.325	5619.142	5571.376	5641.620
35	3115.214	3220.022	3334.209	3648.608	3870.285	4058.334	4030.981	3951.024	3935.397
40	2360.746	2302.587	2481.822	2426.936	2545.883	2628.598	3001.142	3102.217	3344.524
45	1886.254	1866.213	1849.586	1908.796	1801.678	1722.453	1498.082	1332.716	1126.166
50	986.486	901.141	872.286	773.546	666.018	606.628	595.325	593.118	590.898
55	340.213	333.593	335.864	352.402	321.366	320.288	326.806	334.196	328.936
60	273.690	283.543	282.170	285.006	282.440	266.838	271.072	274.280	288.367
65	277.975	264.542	259.435	268.352	265.504	274.074	262.720	269.212	255.882
70	231.197	226.745	226.860	227.271	248.671	239.664	240.627	243.257	245.643
75	160.029	166.251	165.161	164.930	167.393	164.737	172.063	173.718	167.034
80	93.313	97.418	95.468	95.660	105.039	101.549	90.657	93.697	102.422
85	34.307	30.369	35.501	33.191	38.836	36.784	36.296	33.384	35.129
90	0.667	0.603	1.001	1.296	2.014	1.193	0.346	0.654	0.526

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Zone	Lumens	%Lamp	%Fixt
0-20	5297.21	N.A.	39.20
0-30	8946.79	N.A.	66.20
0-40	11362.9	N.A.	84.10
0-60	13036.73	N.A.	96.40
0-80	13471.34	N.A.	99.70
0-90	13516.95	N.A.	100.00
10-90	11762.74	N.A.	87.00
20-40	6065.69	N.A.	44.90
20-50	7361.91	N.A.	54.50
40-70	1932.73	N.A.	14.30
60-80	434.62	N.A.	3.20
70-80	175.72	N.A.	1.30
80-90	45.60	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	13516.95	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1754.2
10-20	3543.01
20-30	3649.58
30-40	2416.11
40-50	1296.23
50-60	377.60
60-70	258.90
70-80	175.72
80-90	45.60
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

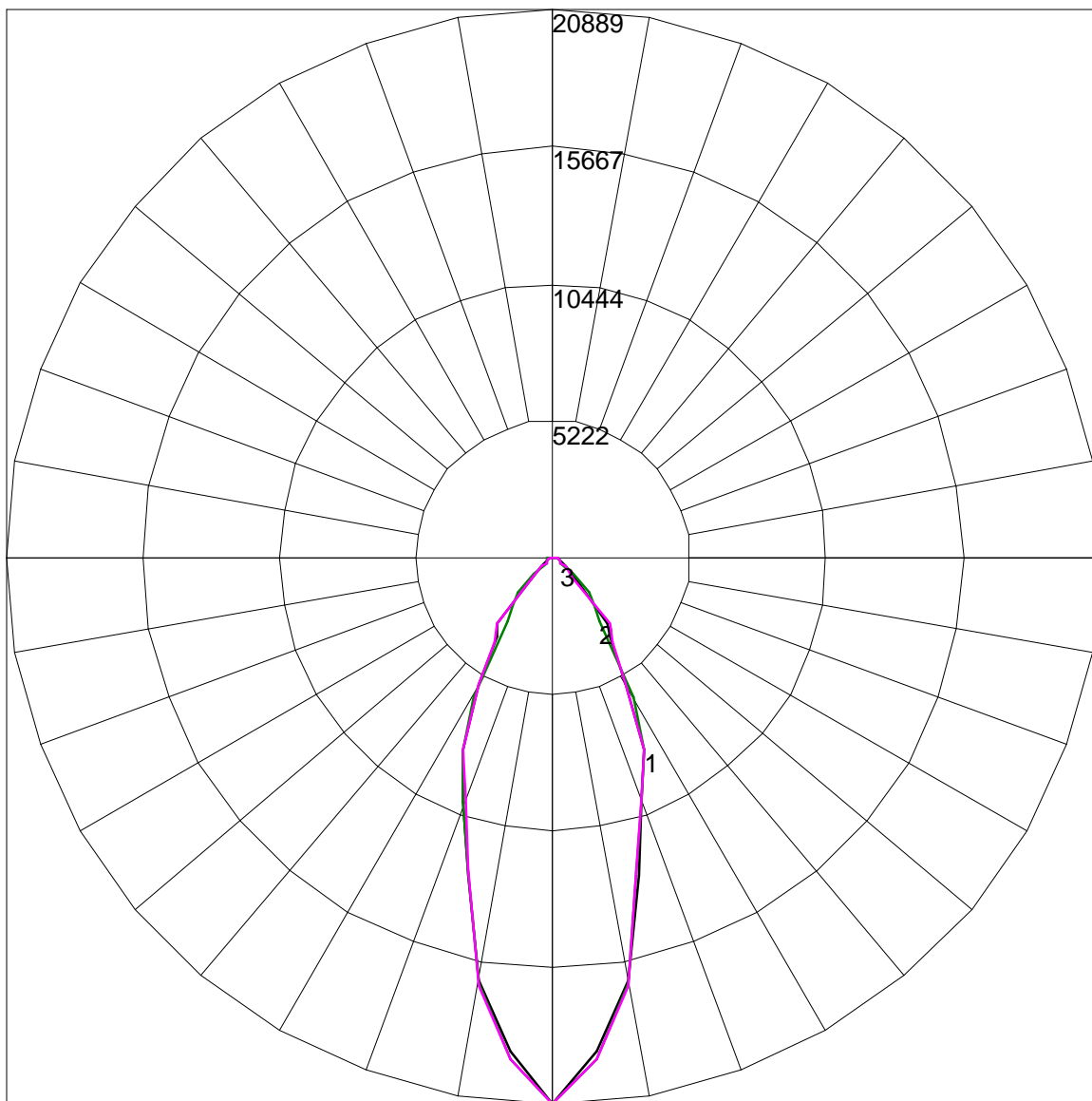
Effective Floor Cavity Reflectance 0.20

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 = 20888.859 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)