

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_51 ~ C1320YKFSXT-80LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_51_M-80L

[TESTLAB] Photopia 2017.2.1 see: www.ltiopics.com/ies

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-80L-xxK-XW-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Wide Beam

[OTHER] Integral Flared 3" Matte Black (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] 54.5 Degree Beam Angle, 88.1 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 200L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6344
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	94.8
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.88
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	4928	8119	5049
55	363	242	335
65	0	0	0
75	0	0	0
85	0	0	0

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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	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032
5	7427.396	7511.889	7423.516	7507.176	7376.589	7468.808	7319.436	7519.004	7446.716	7582.572
10	6958.736	7056.344	6917.157	7004.725	7006.760	7024.789	7048.932	6988.768	6943.280	6968.000
15	6338.616	6465.916	6477.940	6345.728	6307.956	6437.212	6393.120	6411.960	6358.404	6313.924
20	5193.648	5274.640	5294.920	5228.680	5291.976	5208.116	5265.976	5356.408	5288.568	5273.152
25	4375.344	4424.016	4419.184	4358.688	4365.492	4461.552	4379.888	4435.704	4349.164	4383.360
30	3099.488	3070.764	3146.764	3121.548	3176.704	3257.136	3307.744	3361.312	3420.688	3418.032
35	2334.716	2309.344	2308.776	2358.420	2302.260	2190.852	2028.736	1939.216	1835.376	1801.868
40	1579.544	1524.848	1397.256	1293.184	1177.716	1152.764	1167.872	1181.108	1170.696	1167.820
45	397.612	451.292	539.756	613.636	639.516	631.380	631.328	643.400	637.720	655.144
50	110.332	132.932	133.640	122.648	154.212	190.792	241.024	254.544	264.932	279.324
55	23.788	19.788	19.368	20.872	19.836	19.084	17.120	15.416	11.796	15.856
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032	7386.032
5	7456.648	7391.096	7378.721	7378.008	7589.292	7533.408	7507.380	7565.076	7395.860
10	7002.957	6988.436	6976.125	7002.772	7008.440	7045.092	6925.721	7107.980	6991.892
15	6420.704	6395.692	6343.268	6300.856	6414.056	6368.644	6432.336	6463.404	6296.232
20	5290.520	5322.824	5324.516	5292.504	5269.804	5241.252	5359.064	5268.356	5308.608
25	4404.376	4379.080	4366.656	4327.288	4385.972	4313.512	4291.660	4357.100	4331.420
30	3397.652	3447.584	3315.476	3264.116	3176.748	3123.040	3150.704	3089.544	3099.028
35	1895.672	1927.452	2008.052	2194.432	2287.116	2295.884	2333.116	2303.592	2305.440
40	1165.840	1178.276	1171.488	1174.920	1197.040	1231.476	1392.320	1527.608	1596.280
45	654.124	629.460	659.864	659.096	652.708	595.876	533.424	467.144	407.448
50	259.912	249.372	232.528	189.944	154.580	137.160	132.396	127.388	132.552
55	13.892	16.572	20.332	18.160	21.184	20.304	23.060	20.828	21.924
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	2450.88	N.A.	38.60
0-30	4427.82	N.A.	69.80
0-40	5791.29	N.A.	91.30
0-60	6343.7	N.A.	100.00
0-80	6343.7	N.A.	100.00
0-90	6343.7	N.A.	100.00
10-90	5648.72	N.A.	89.00
20-40	3340.41	N.A.	52.70
20-50	3843.62	N.A.	60.60
40-70	552.40	N.A.	8.70
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	6343.7	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	694.97
10-20	1755.91
20-30	1976.93
30-40	1363.48
40-50	503.21
50-60	49.20
60-70	0.00
70-80	0.00
80-90	0.00
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

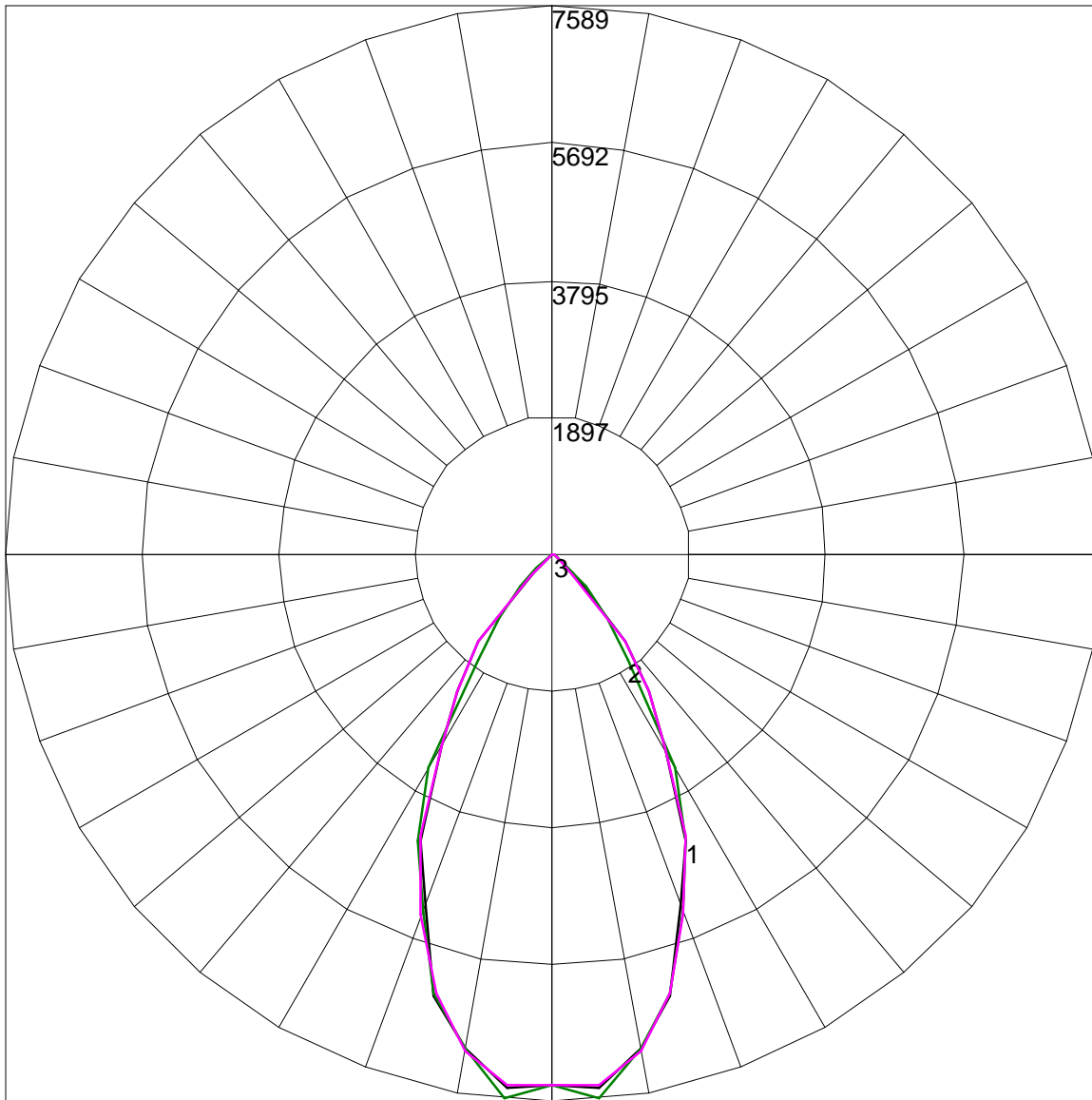
Effective Floor Cavity Reflectance 0.20

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	114	111	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81
4	97	90	84	80	96	89	84	80	86	82	79	85	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	60	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	56	53	71	62	56	53	61	56	52	60	56	52	59	55	52	51

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POLAR GRAPH



Maximum Candela = 7589.292 Located At Horizontal Angle = 70, 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)