

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_52 ~ C1320YKSSXT-52LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_52_M-52L

[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-52L-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 1300lm

[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	4206
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	60
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	5674	4182	5750
55	2932	2927	3149
65	3006	3024	3139
75	2862	2946	2882
85	1692	1913	1800

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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	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556
5	4937.816	4845.415	4827.446	4930.195	4873.211	4788.794	4925.131	4838.826	4938.167	4850.492
10	4707.827	4732.132	4661.964	4756.645	4716.943	4656.839	4653.984	4659.881	4657.138	4680.970
15	4323.145	4360.553	4344.247	4296.055	4321.910	4219.909	4237.178	4292.572	4296.469	4305.303
20	3327.545	3303.019	3303.661	3375.577	3324.472	3285.963	3332.048	3313.778	3315.723	3274.830
25	2678.268	2621.372	2554.635	2570.656	2424.339	2354.014	2222.059	2109.978	2079.267	2078.770
30	1991.083	1895.488	1731.920	1652.856	1545.042	1542.619	1504.490	1492.231	1446.809	1488.638
35	1016.696	1017.203	1139.328	1183.356	1209.010	1180.353	1148.664	1127.571	1131.424	1132.300
40	693.098	646.654	633.805	630.019	650.452	693.267	778.458	854.958	869.989	893.207
45	457.860	462.462	447.343	437.273	438.537	421.119	388.086	358.192	341.110	337.441
50	235.451	238.885	231.382	222.261	211.588	206.583	210.200	194.025	197.075	202.727
55	191.922	193.994	194.626	188.464	187.808	191.831	181.860	188.591	184.922	191.591
60	181.771	181.849	184.824	178.914	175.799	177.546	174.598	172.593	170.193	166.228
65	144.986	153.689	157.976	148.086	148.569	152.394	150.865	147.360	151.741	145.852
70	111.974	114.075	119.577	116.649	113.755	112.125	116.022	117.900	115.926	120.193
75	84.518	80.673	81.086	81.312	81.110	85.514	87.576	82.542	84.648	87.009
80	50.401	49.884	50.146	50.768	53.820	52.346	51.680	51.223	47.291	52.042
85	16.830	16.786	19.435	19.269	16.871	18.213	16.799	18.099	16.879	19.024
90	0.476	0.000	0.213	0.120	0.343	0.088	0.533	0.117	0.205	0.356

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	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556	4773.556
5	4962.417	4961.845	4910.924	4889.131	5005.096	4984.346	4876.622	4996.427	5059.244
10	4642.807	4699.297	4746.615	4686.776	4678.258	4642.302	4706.543	4647.092	4650.407
15	4293.336	4399.639	4338.344	4317.323	4287.876	4314.240	4300.187	4323.314	4362.152
20	3384.890	3338.912	3293.591	3308.825	3282.167	3368.666	3317.925	3328.151	3264.035
25	2078.622	2100.535	2212.447	2322.806	2428.678	2555.865	2653.204	2636.322	2653.365
30	1479.590	1495.335	1487.801	1524.320	1606.527	1666.064	1760.398	1912.677	1956.880
35	1119.188	1158.188	1124.048	1195.797	1189.274	1136.028	1099.966	1033.950	1038.794
40	886.951	841.937	768.999	688.644	636.407	616.411	654.118	628.423	656.391
45	342.581	363.997	382.855	412.607	435.578	443.955	440.583	467.654	463.952
50	197.220	199.371	195.874	189.813	215.140	221.130	227.282	238.152	250.110
55	184.296	189.478	187.595	194.254	185.929	194.072	188.406	196.191	206.105
60	169.434	166.156	170.084	178.844	172.489	176.543	179.946	179.574	179.028
65	146.702	143.003	148.164	148.106	151.507	152.032	154.458	154.313	151.364
70	118.773	117.374	117.049	117.645	120.375	116.698	118.461	114.746	116.142
75	84.477	88.278	80.345	86.068	82.885	85.028	82.537	85.342	85.111
80	51.514	51.394	49.473	49.590	48.680	49.702	48.680	49.293	50.853
85	17.657	16.960	16.895	19.360	17.748	16.882	17.571	19.874	17.904
90	0.107	0.000	0.224	0.057	0.000	0.203	0.299	0.000	0.205

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Zone	Lumens	%Lamp	%Fixt
0-20	1621.37	N.A.	38.60
0-30	2723.46	N.A.	64.80
0-40	3438.5	N.A.	81.80
0-60	3946.88	N.A.	93.80
0-80	4182.02	N.A.	99.40
0-90	4205.53	N.A.	100.00
10-90	3746.51	N.A.	89.10
20-40	1817.14	N.A.	43.20
20-50	2153.28	N.A.	51.20
40-70	655.10	N.A.	15.60
60-80	235.14	N.A.	5.60
70-80	88.43	N.A.	2.10
80-90	23.51	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	4205.53	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	459.02
10-20	1162.35
20-30	1102.09
30-40	715.04
40-50	336.15
50-60	172.23
60-70	146.71
70-80	88.43
80-90	23.51
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

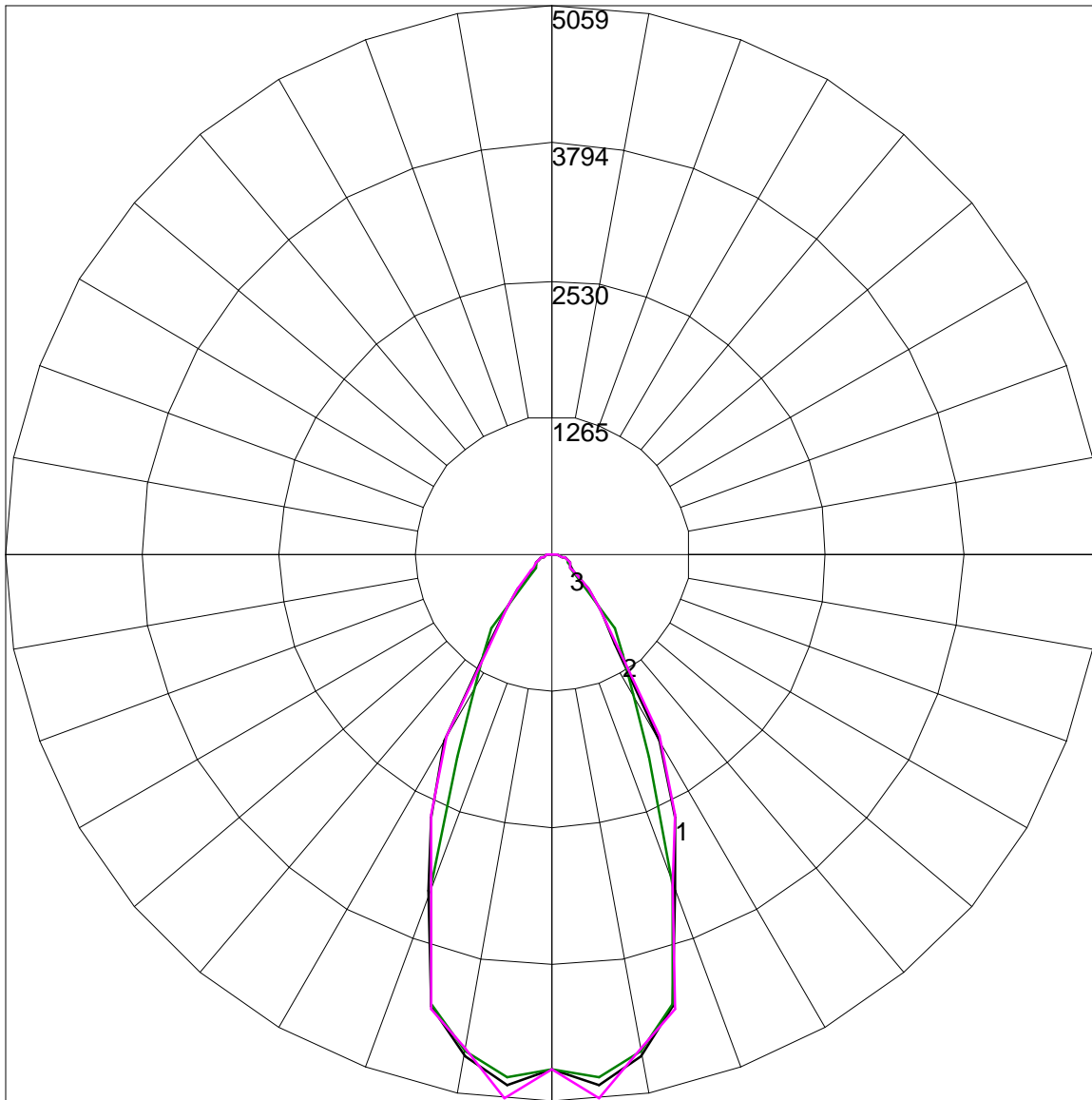
Effective Floor Cavity Reflectance 0.20

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	69	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 = 5059.244 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)