

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_46 ~ C1320YKFSXT-52LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_46\_M-52L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-52L-xxK-WD-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Wide 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] 52.4 Degree Beam Angle, 89.6 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	4626
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_46 ~ C1320YKFSXT-52LXXK-WDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4606	7000	4494
55	1757	1718	1761
65	1772	1898	1821
75	1930	1807	1917
85	837	1156	1156

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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	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553
5	4599.096	4551.630	4665.788	4602.166	4734.852	4686.677	4736.077	4564.071	4648.769	4591.571
10	5051.501	4967.485	5037.640	5098.662	5012.937	5026.299	5054.699	5133.554	4996.498	5058.815
15	4543.201	4608.266	4641.481	4596.103	4666.896	4667.772	4623.723	4628.174	4633.470	4653.386
20	3809.728	3832.553	3821.407	3838.260	3799.068	3828.892	3820.229	3832.025	3815.310	3778.562
25	2843.560	2913.245	2901.751	2889.232	2924.485	2869.903	2919.862	2922.707	2840.349	2876.999
30	1935.079	1967.779	2011.074	1995.965	2007.600	2027.308	2101.078	2101.445	2173.345	2147.319
35	1492.847	1465.438	1477.653	1491.136	1399.455	1353.695	1297.712	1189.466	1145.622	1153.430
40	1127.984	1072.011	991.918	920.764	847.239	823.053	824.507	822.156	836.724	821.150
45	371.667	392.873	460.447	501.485	567.427	575.029	555.433	549.864	551.104	564.873
50	187.777	194.163	192.101	197.967	201.752	234.751	258.515	284.534	283.085	292.058
55	114.972	108.818	113.113	111.082	111.098	113.703	112.005	110.430	113.711	112.421
60	89.149	94.614	92.209	94.788	95.693	100.131	96.551	95.794	95.638	98.059
65	85.483	85.303	85.418	88.247	89.648	89.079	92.258	87.942	89.541	91.533
70	77.150	77.977	74.909	78.148	75.200	73.411	74.734	76.903	72.985	75.608
75	57.005	54.358	55.536	56.742	54.093	58.570	51.737	57.988	51.360	53.373
80	28.631	29.377	32.154	31.418	33.030	33.189	31.710	32.412	31.447	31.052
85	8.325	10.884	11.131	11.570	12.181	12.875	12.202	11.705	11.461	11.500
90	0.634	0.621	0.359	0.476	0.221	0.291	0.117	0.237	0.159	0.330

## 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	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553	4661.553
5	4593.422	4663.141	4667.707	4650.596	4592.497	4649.141	4668.061	4699.926	4674.680
10	5161.460	5027.986	5036.151	5017.942	5007.036	5053.040	5069.194	5008.006	5106.842
15	4577.747	4607.603	4687.004	4554.043	4702.305	4624.516	4568.509	4677.059	4614.056
20	3798.449	3762.486	3831.386	3808.397	3789.401	3843.341	3865.422	3804.164	3798.589
25	2919.433	2870.236	2900.339	2925.190	2889.156	2866.609	2857.246	2927.345	2883.187
30	2145.705	2119.073	2069.512	2024.313	1977.563	1999.286	1973.933	1952.244	1941.576
35	1170.601	1227.548	1285.474	1373.871	1427.616	1469.276	1478.937	1501.981	1454.068
40	813.626	820.173	805.535	821.772	855.254	895.401	1001.343	1084.918	1124.773
45	553.652	560.687	561.506	554.975	547.901	521.872	462.324	398.138	362.666
50	283.715	295.422	279.552	239.460	196.976	195.676	187.957	194.561	203.133
55	116.054	116.865	111.350	114.644	113.906	111.582	111.938	110.986	115.266
60	96.980	97.352	94.619	97.973	96.281	95.098	91.057	92.919	88.691
65	91.231	89.983	88.811	88.000	85.488	89.586	87.636	85.888	87.838
70	69.329	73.546	74.607	73.135	76.619	76.617	76.861	78.741	71.890
75	51.337	55.827	56.116	51.620	51.184	55.466	59.579	57.231	56.628
80	31.468	31.086	32.032	31.764	32.848	29.791	29.715	29.039	32.063
85	10.655	12.264	10.265	12.048	11.518	11.539	10.751	12.490	11.495
90	0.699	0.632	0.088	0.120	0.281	0.120	0.239	0.221	0.237

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_46 ~ C1320YKFSXT-52LXXK-WDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1727.65	N.A.	37.30
0-30	3055.63	N.A.	66.10
0-40	3931.62	N.A.	85.00
0-60	4467.65	N.A.	96.60
0-80	4610.86	N.A.	99.70
0-90	4625.73	N.A.	100.00
10-90	4167.78	N.A.	90.10
20-40	2203.97	N.A.	47.60
20-50	2616.6	N.A.	56.60
40-70	622.14	N.A.	13.40
60-80	143.21	N.A.	3.10
70-80	57.10	N.A.	1.20
80-90	14.87	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	4625.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	457.95
10-20	1269.7
20-30	1327.98
30-40	875.99
40-50	412.63
50-60	123.41
60-70	86.11
70-80	57.10
80-90	14.87
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

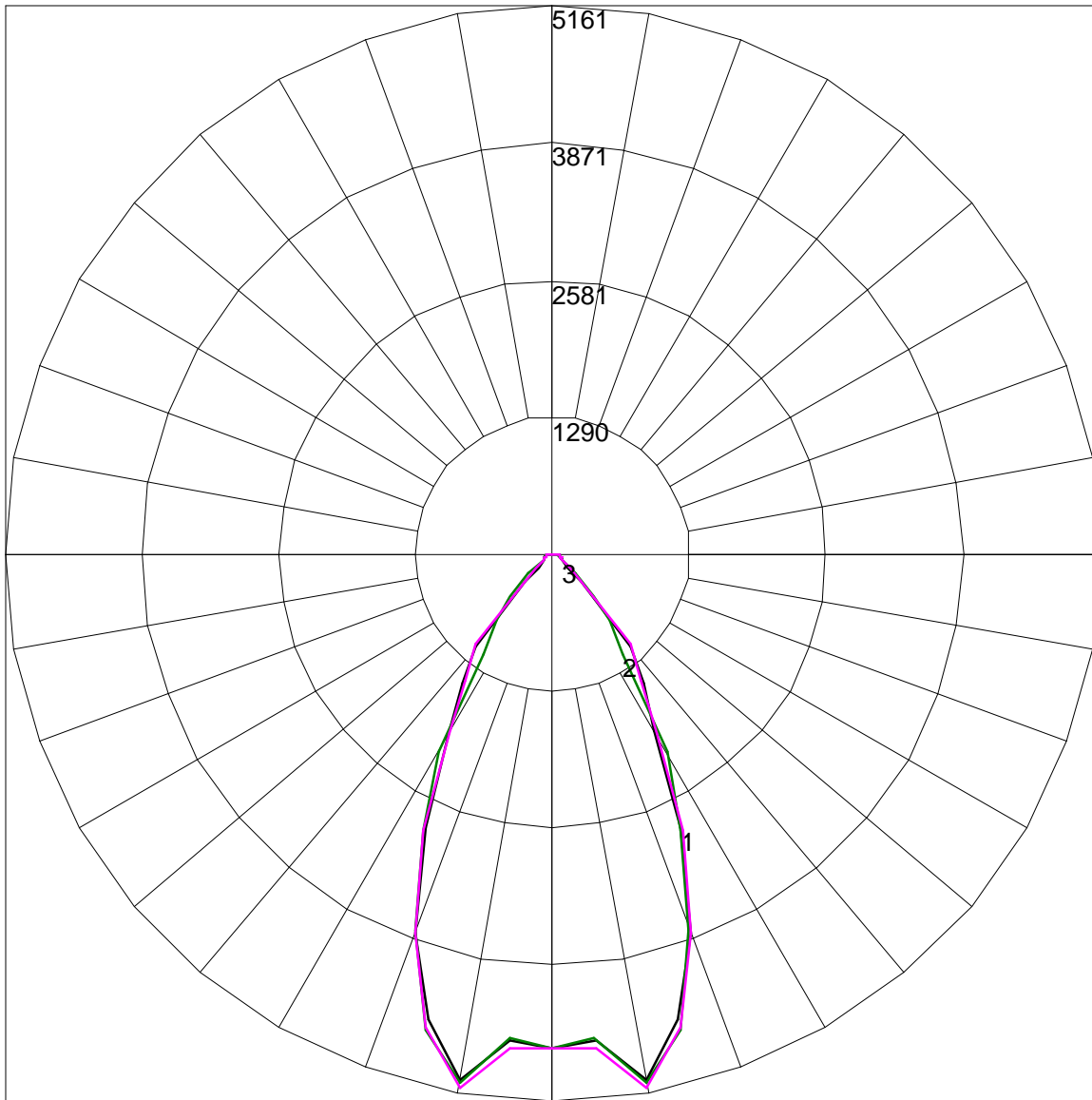
Effective Floor Cavity Reflectance 0.20

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	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	57	76	67	61	57	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

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## POLAR GRAPH



Maximum Candela = 5161.46 Located At Horizontal Angle = 50, Vertical Angle = 10

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

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

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