

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-52LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_35_M-52L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/01/2017

[UPDATE] 11/07/2017

[LUMCAT] C1320YKSSXT-52L-xxK-MD-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Medium 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] 37.2 Degree Beam Angle, 74.9 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 120L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4038
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.08 ft (Diameter)
Luminous Width (90-270)	1.08 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9056	5621	7630
55	3637	3565	3803
65	4025	3956	4193
75	3874	3482	3152
85	2693	2359	2155

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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	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558
5	6157.282	6325.143	6104.495	6091.111	6249.563	6215.732	6340.817	6143.426	6095.371	6103.373
10	5301.765	5413.747	5361.224	5314.980	5567.899	5508.193	5502.447	5425.351	5164.361	5555.546
15	3988.848	3968.458	3909.765	3940.880	3881.797	3908.583	3942.876	4074.378	4037.959	3966.427
20	3209.920	3071.252	2973.065	3013.117	2992.043	2991.359	2933.497	3039.760	3059.214	2836.713
25	2417.461	2387.341	2296.623	2334.463	2157.795	1973.307	1903.143	1911.440	1876.709	1693.476
30	1615.592	1654.826	1480.193	1482.397	1362.032	1371.268	1235.540	1297.259	1286.876	1278.043
35	639.402	745.375	891.902	952.128	1029.678	979.970	1067.930	1008.479	968.452	1016.238
40	587.057	596.016	588.209	600.147	588.179	671.726	771.641	815.140	835.720	921.688
45	548.563	505.887	480.535	434.230	493.035	408.869	401.261	358.061	350.089	340.446
50	239.289	235.327	233.742	212.127	208.264	195.621	182.839	193.651	176.417	191.096
55	178.686	187.610	184.536	197.768	186.151	192.988	184.558	179.937	172.529	175.144
60	177.729	182.367	176.569	174.057	164.787	167.415	160.647	155.408	175.976	154.217
65	145.700	139.807	134.122	145.436	145.826	145.012	148.675	146.986	145.622	143.232
70	108.661	106.206	118.170	105.565	113.641	105.327	114.251	111.671	106.973	105.760
75	85.886	74.402	73.510	81.677	89.055	73.168	87.444	71.324	84.322	77.195
80	45.357	49.730	46.517	41.564	43.486	44.867	41.936	44.885	52.692	44.595
85	20.109	15.709	15.034	11.886	15.869	13.990	15.856	14.713	15.246	17.614
90	0.000	0.238	0.091	0.268	0.117	0.338	0.983	0.100	0.100	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	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558	6852.558
5	6115.207	6327.641	6099.212	6498.598	6234.473	6254.555	6107.777	6265.744	6384.178
10	5479.208	5278.209	5356.500	5396.327	5326.944	5501.681	5417.103	5225.440	5621.258
15	3842.342	3998.092	4166.071	4094.483	4031.832	3967.155	3828.482	4044.718	3871.947
20	2742.302	2887.712	2949.379	2983.409	2956.004	3118.271	2912.388	3128.706	3156.258
25	1794.166	1837.643	1989.839	2088.779	2210.565	2323.673	2400.448	2258.844	2429.147
30	1268.980	1218.830	1201.380	1328.868	1240.909	1394.182	1465.281	1728.835	1719.577
35	987.552	1016.996	985.062	991.050	1020.083	965.378	833.200	772.671	745.635
40	883.402	785.310	760.010	676.493	640.775	559.211	591.837	500.834	614.886
45	361.118	381.373	415.238	449.212	469.567	476.954	457.949	480.630	462.154
50	183.285	194.382	177.158	196.734	191.806	195.465	221.194	236.574	242.831
55	183.068	177.794	178.045	186.744	180.405	183.384	183.202	197.296	186.874
60	174.720	155.945	173.321	161.496	179.812	160.305	168.692	168.610	172.135
65	141.504	150.260	147.285	149.246	144.864	144.384	151.004	159.993	151.792
70	108.146	111.731	111.441	124.397	110.939	111.485	111.277	115.615	115.048
75	74.944	77.749	73.995	69.665	73.454	78.620	74.766	74.104	69.886
80	49.158	47.574	45.461	41.698	44.482	49.007	54.640	41.057	41.386
85	15.891	15.094	13.250	11.964	13.748	13.644	12.921	16.857	16.090
90	0.771	0.000	0.191	0.000	0.000	0.078	0.091	0.000	0.065

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Zone	Lumens	%Lamp	%Fixt
0-20	1701.74	N.A.	42.10
0-30	2677.36	N.A.	66.30
0-40	3291.74	N.A.	81.50
0-60	3793.25	N.A.	93.90
0-80	4017.09	N.A.	99.50
0-90	4037.73	N.A.	100.00
10-90	3465.96	N.A.	85.80
20-40	1589.99	N.A.	39.40
20-50	1925.73	N.A.	47.70
40-70	643.19	N.A.	15.90
60-80	223.84	N.A.	5.50
70-80	82.16	N.A.	2.00
80-90	20.64	N.A.	0.50
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	4037.73	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	571.76
10-20	1129.98
20-30	975.62
30-40	614.38
40-50	335.73
50-60	165.78
60-70	141.68
70-80	82.16
80-90	20.64
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

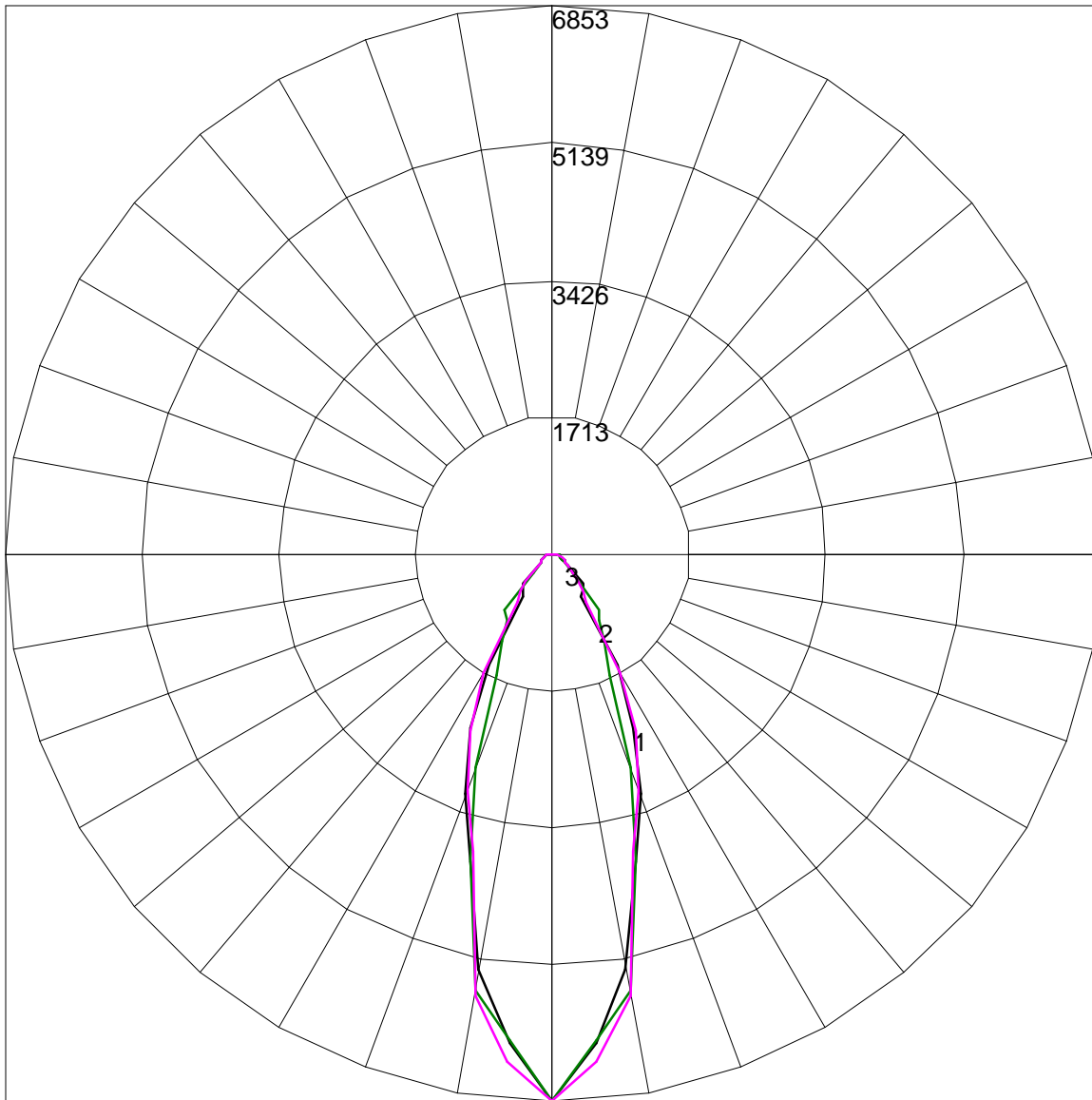
Effective Floor Cavity Reflectance 0.20

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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	89	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	75	70	89	80	75	70	79	73	70	77	72	69	75	71	68	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	58	77	67	61	57	66	61	57	65	60	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	55	51	59	54	51	58	54	51	49

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POLAR GRAPH



Maximum Candela = 6852.558 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)