

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_44 ~ C1320YKSSXT-52LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_44\_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-ND-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.7 Degree Beam Angle, 48.3 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	4603
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)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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\_44 ~ C1320YKSSXT-52LXXK-NDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	1434	1329	1452
55	1217	1178	1295
65	1437	1398	1430
75	1433	1382	1265
85	926	808	943

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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>
<b>0</b>	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379
<b>5</b>	15608.855	15807.851	15932.225	15816.093	15793.198	15941.218	15788.178	15788.325	15784.568	15786.089
<b>10</b>	11985.323	11693.778	11851.470	11691.016	11742.905	11660.521	11852.638	11734.811	11724.216	11739.298
<b>15</b>	6323.507	6325.166	6407.476	6269.926	6282.772	6275.287	6243.390	6317.118	6200.893	6235.315
<b>20</b>	2663.034	2647.926	2660.385	2650.554	2623.267	2647.203	2636.135	2728.071	2771.189	2721.324
<b>25</b>	1664.294	1616.953	1595.298	1544.969	1468.519	1414.462	1308.687	1175.957	1138.550	1078.563
<b>30</b>	1253.236	1249.409	1109.251	1011.093	952.546	881.171	874.253	854.812	857.256	854.823
<b>35</b>	455.972	464.032	543.031	604.908	625.550	626.192	586.323	578.373	589.607	594.690
<b>40</b>	215.717	212.789	211.783	206.107	224.819	254.631	276.687	284.705	280.792	286.450
<b>45</b>	115.687	108.597	107.432	105.901	100.303	104.455	101.834	106.444	108.004	107.227
<b>50</b>	81.975	86.336	88.478	89.354	88.395	81.552	83.866	82.196	88.712	84.997
<b>55</b>	79.669	78.042	82.690	84.386	82.885	79.167	80.722	81.895	86.455	77.082
<b>60</b>	74.794	76.869	82.165	74.209	77.982	74.901	74.183	78.096	72.233	76.731
<b>65</b>	69.313	72.459	73.570	73.499	70.639	69.779	68.622	68.206	67.226	67.418
<b>70</b>	62.179	60.655	62.384	58.664	58.664	60.234	56.090	55.377	55.809	55.723
<b>75</b>	42.318	41.946	40.329	38.485	42.832	38.839	38.033	41.036	39.881	40.804
<b>80</b>	24.809	24.432	23.234	24.879	25.428	23.288	23.930	25.217	26.528	23.751
<b>85</b>	9.207	7.241	7.935	8.710	8.744	8.258	7.927	9.498	8.549	8.039
<b>90</b>	0.000	0.000	0.120	0.120	0.146	0.179	0.120	0.000	0.000	0.224

## 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>
<b>0</b>	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379	18622.379
<b>5</b>	15945.238	15843.671	15806.679	15782.735	15871.871	15942.216	15878.748	15938.156	16068.993
<b>10</b>	11765.268	11768.383	11835.891	11753.861	11759.256	11806.088	11846.169	11776.031	11711.696
<b>15</b>	6306.263	6282.832	6265.854	6267.328	6306.170	6325.101	6246.339	6338.384	6419.551
<b>20</b>	2748.143	2736.638	2712.429	2625.550	2616.559	2631.660	2593.243	2624.911	2611.890
<b>25</b>	1118.692	1217.263	1243.710	1328.044	1473.880	1613.823	1631.552	1653.280	1646.879
<b>30</b>	862.116	852.857	850.091	887.913	904.891	1017.120	1111.443	1221.225	1261.801
<b>35</b>	592.725	615.521	603.041	626.922	635.963	592.355	543.351	481.803	435.347
<b>40</b>	278.910	275.558	278.710	259.303	216.616	206.341	207.685	227.760	231.702
<b>45</b>	105.056	107.575	100.807	104.341	100.552	106.847	113.357	108.683	117.135
<b>50</b>	85.067	85.862	79.427	83.785	88.405	83.387	85.917	87.545	88.665
<b>55</b>	84.747	85.246	82.480	85.207	83.678	84.674	79.771	81.830	84.770
<b>60</b>	74.181	75.145	75.338	76.703	77.254	74.084	77.282	77.867	79.966
<b>65</b>	70.299	70.652	65.559	67.184	69.898	70.036	68.484	69.716	68.942
<b>70</b>	55.710	55.713	56.961	57.551	57.933	61.014	59.896	61.633	54.033
<b>75</b>	38.641	38.930	42.406	41.400	37.775	42.224	38.371	43.186	37.372
<b>80</b>	23.208	26.455	24.853	23.179	23.501	24.258	23.787	25.308	22.636
<b>85</b>	7.847	10.036	7.883	8.520	7.834	7.800	9.448	7.381	9.381
<b>90</b>	0.120	0.101	0.120	0.107	0.000	0.000	0.120	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_44 ~ C1320YKSSXT-52LXXK-NDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3209.96	N.A.	69.70
0-30	3938.53	N.A.	85.60
0-40	4304.11	N.A.	93.50
0-60	4481.13	N.A.	97.30
0-80	4591.99	N.A.	99.80
0-90	4603.22	N.A.	100.00
10-90	3203.11	N.A.	69.60
20-40	1094.15	N.A.	23.80
20-50	1197.99	N.A.	26.00
40-70	244.83	N.A.	5.30
60-80	110.86	N.A.	2.40
70-80	43.05	N.A.	0.90
80-90	11.22	N.A.	0.20
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	4603.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1400.1
10-20	1809.86
20-30	728.57
30-40	365.58
40-50	103.84
50-60	73.17
60-70	67.81
70-80	43.05
80-90	11.22
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

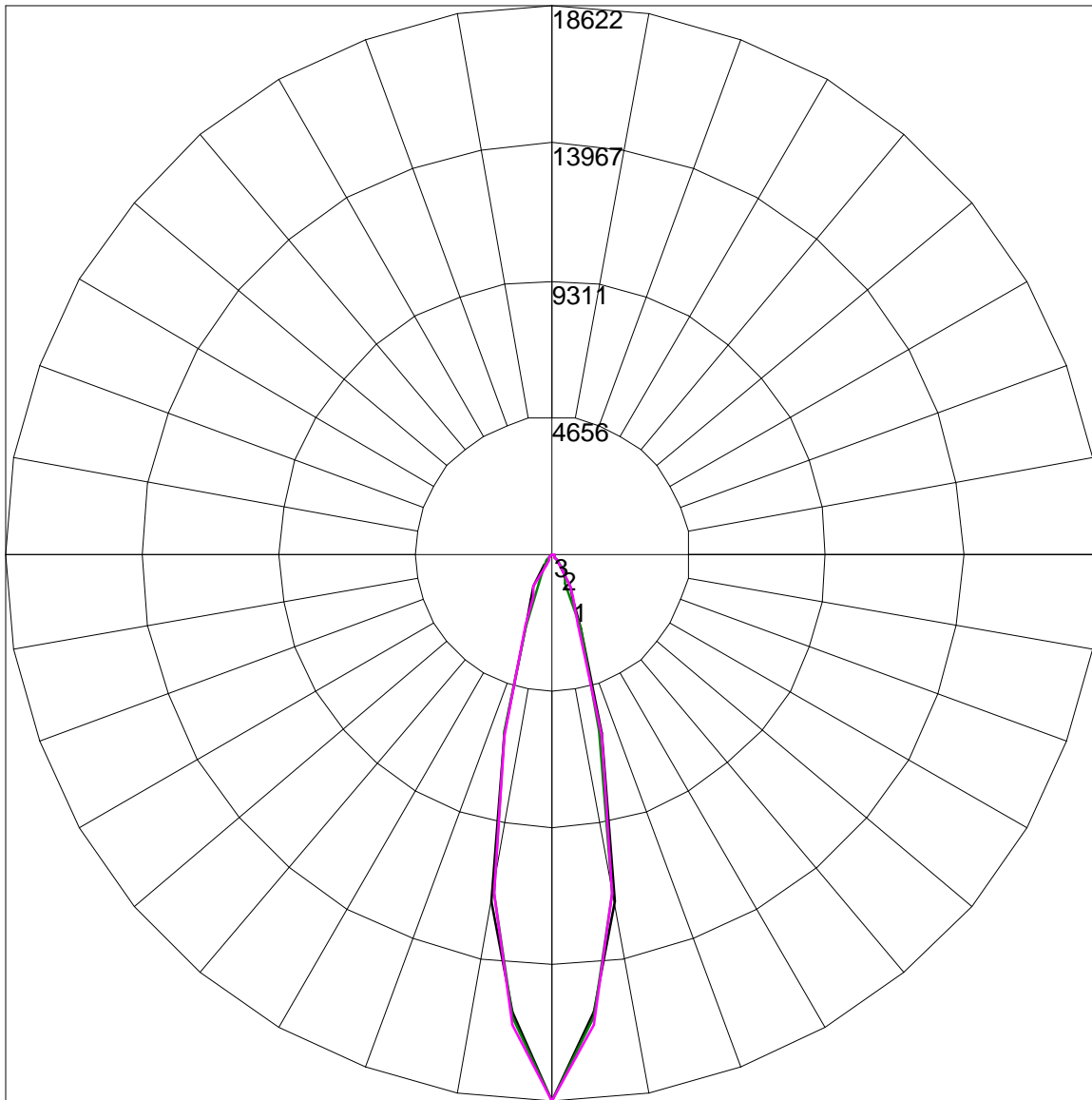
Effective Floor Cavity Reflectance 0.20

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	105	102	99	108	104	101	98	101	98	96	98	96	94	95	93	92	90
3	105	100	96	93	104	99	95	92	96	93	90	94	91	89	92	90	88	86
4	102	95	91	87	100	94	90	87	92	89	86	90	87	85	89	86	84	83
5	98	91	86	83	97	90	86	83	89	85	82	87	84	81	86	83	81	79
6	95	87	83	79	93	87	82	79	85	81	78	84	81	78	83	80	77	76
7	92	84	79	76	90	84	79	76	82	78	75	81	78	75	80	77	75	74
8	89	81	76	73	88	81	76	73	80	76	73	79	75	72	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	83	75	71	68	75	71	68	74	70	68	73	70	68	67

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## POLAR GRAPH



Maximum Candela = 18622.379 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)