

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_37 ~ C1320YKFSXT-52LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_37\_M-52L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium 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] 38.3 Degree Beam Angle, 86.1 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	4565
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	76
Total Luminaire Watts	60
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
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\_37 ~ C1320YKFSXT-52LXXK-MDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	5061	7925	4713
55	1643	1724	1697
65	1852	1884	1792
75	1888	1848	1910
85	1101	1147	1193

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_37 ~ C1320YKFSXT-52LXXK-MDEX-MWI.IES

## 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>	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670
<b>5</b>	6403.797	6415.245	6396.240	6368.292	6543.688	6490.799	6568.087	6477.913	6528.514	6494.361
<b>10</b>	5558.455	5556.518	5521.087	5598.154	5635.591	5534.536	5608.180	5611.997	5588.214	5598.431
<b>15</b>	4255.461	4138.535	4167.592	4221.148	4179.438	4116.259	4235.503	4220.346	4177.151	4207.243
<b>20</b>	3379.476	3439.661	3339.023	3333.602	3284.869	3322.605	3320.170	3345.167	3332.398	3354.336
<b>25</b>	2757.616	2752.685	2819.071	2792.579	2744.938	2725.314	2709.200	2756.902	2750.337	2742.737
<b>30</b>	1890.046	1848.245	1875.565	1894.860	1894.024	1948.970	1917.725	2034.720	2044.955	2086.677
<b>35</b>	1266.389	1349.474	1355.510	1356.844	1292.040	1222.790	1149.944	1068.734	998.583	1019.932
<b>40</b>	1098.112	1065.519	962.528	890.613	831.936	801.631	803.312	782.063	796.141	801.952
<b>45</b>	408.372	448.673	515.696	557.284	628.679	622.266	621.417	632.237	616.265	639.520
<b>50</b>	195.228	208.253	206.350	212.265	228.271	255.656	287.204	308.202	330.890	324.377
<b>55</b>	107.523	109.729	110.561	116.501	108.498	113.910	110.912	112.147	113.581	112.866
<b>60</b>	94.425	95.499	93.043	96.331	94.147	95.902	95.928	91.171	96.886	98.927
<b>65</b>	89.338	89.320	79.714	90.304	91.665	89.676	90.053	89.429	92.882	90.880
<b>70</b>	84.805	79.268	82.032	80.624	74.597	75.381	72.465	77.517	77.045	75.403
<b>75</b>	55.774	58.231	59.059	56.615	59.553	59.319	55.865	55.956	55.376	54.583
<b>80</b>	30.244	32.558	32.051	33.459	35.232	36.042	32.831	31.185	32.575	32.138
<b>85</b>	10.949	12.982	12.327	11.279	11.084	10.438	12.210	11.517	12.137	11.409
<b>90</b>	0.238	0.455	0.338	0.355	0.091	0.091	0.160	0.100	0.442	0.394

## 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>	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670	7054.670
<b>5</b>	6452.131	6512.507	6470.880	6522.707	6576.931	6366.325	6502.165	6423.460	6512.196
<b>10</b>	5571.506	5574.014	5469.580	5564.638	5531.542	5580.965	5521.169	5491.202	5602.517
<b>15</b>	4167.705	4192.099	4088.350	4183.061	4130.263	4158.935	4151.343	4184.482	4167.653
<b>20</b>	3293.648	3265.201	3285.935	3365.380	3360.064	3334.022	3351.658	3374.753	3325.629
<b>25</b>	2742.715	2781.838	2725.297	2752.867	2759.146	2768.917	2749.635	2765.516	2747.798
<b>30</b>	2021.799	1981.394	1920.659	1920.979	1892.451	1887.312	1897.720	1881.588	1905.311
<b>35</b>	1052.083	1087.479	1126.043	1232.223	1307.088	1370.597	1361.359	1334.356	1329.078
<b>40</b>	797.281	777.639	838.171	819.635	859.806	887.741	1013.558	1047.693	1129.526
<b>45</b>	637.033	630.265	624.650	644.646	608.470	581.714	505.938	450.090	380.333
<b>50</b>	333.160	304.337	294.592	261.245	224.930	204.873	201.056	200.310	199.561
<b>55</b>	114.898	112.662	113.429	119.015	108.533	108.169	110.370	112.866	111.089
<b>60</b>	92.432	95.759	95.296	96.253	95.387	90.118	91.548	92.631	97.389
<b>65</b>	93.879	89.342	87.618	90.629	89.667	92.562	88.727	90.919	86.417
<b>70</b>	78.081	76.577	76.616	76.755	83.982	80.940	81.265	82.154	82.960
<b>75</b>	54.046	56.147	55.779	55.701	56.533	55.636	58.110	58.669	56.411
<b>80</b>	31.514	32.900	32.242	32.307	35.474	34.296	30.617	31.644	34.590
<b>85</b>	11.586	10.256	11.989	11.209	13.116	12.423	12.258	11.274	11.864
<b>90</b>	0.225	0.204	0.338	0.438	0.680	0.403	0.117	0.221	0.178

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_37 ~ C1320YKFSXT-52LXXK-MDEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1788.99	N.A.	39.20
0-30	3021.55	N.A.	66.20
0-40	3837.52	N.A.	84.10
0-60	4402.82	N.A.	96.40
0-80	4549.6	N.A.	99.70
0-90	4565.00	N.A.	100.00
10-90	3972.56	N.A.	87.00
20-40	2048.53	N.A.	44.90
20-50	2486.3	N.A.	54.50
40-70	652.73	N.A.	14.30
60-80	146.78	N.A.	3.20
70-80	59.35	N.A.	1.30
80-90	15.40	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	4565.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	592.44
10-20	1196.56
20-30	1232.55
30-40	815.98
40-50	437.77
50-60	127.53
60-70	87.44
70-80	59.35
80-90	15.40
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_37 ~ C1320YKFSXT-52LXXK-MDEX-MWI.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

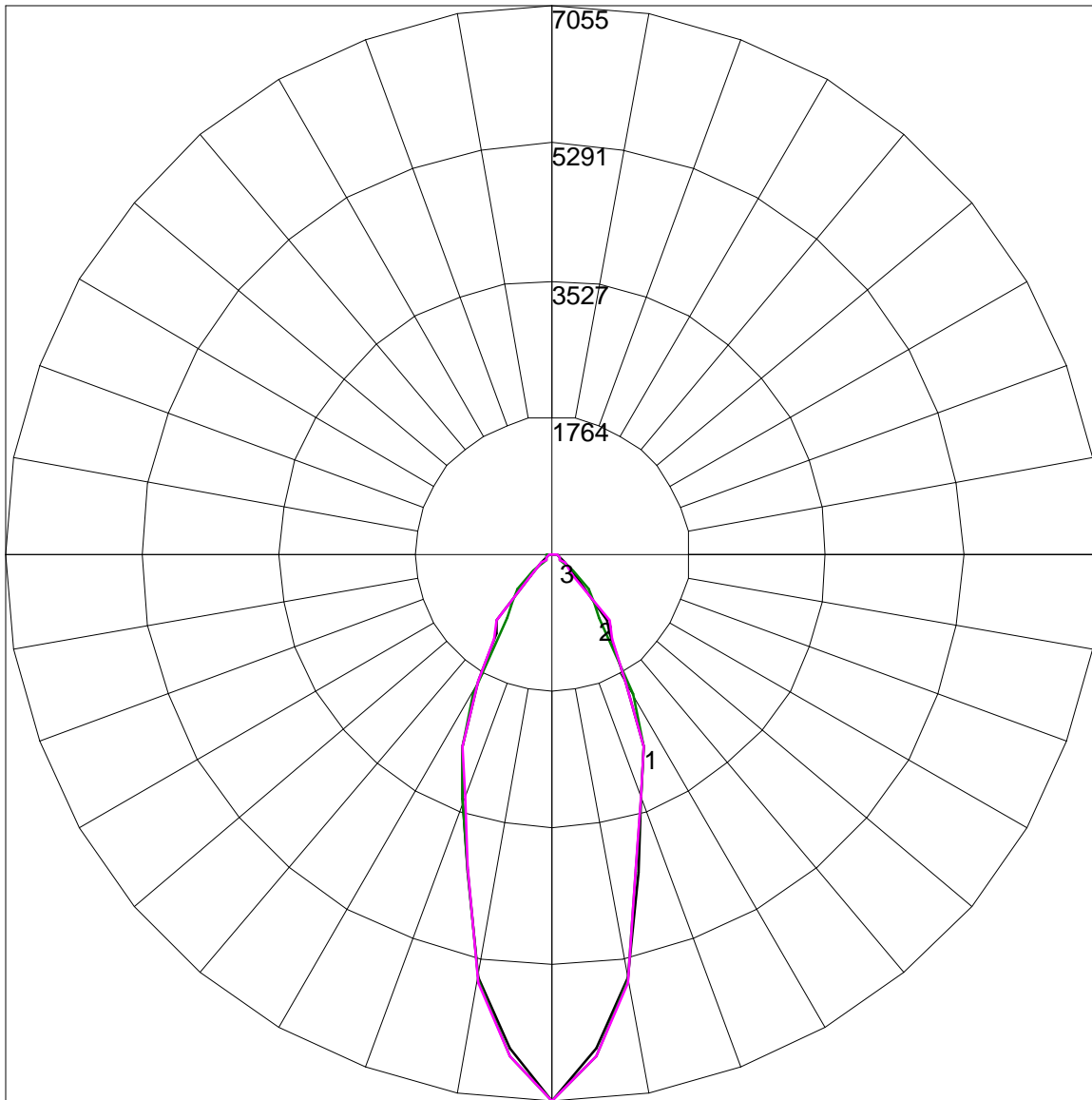
Effective Floor Cavity Reflectance 0.20

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	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	65	63
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	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	54	51	59	54	51	58	54	51	49

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_37 ~ C1320YKFSXT-52LXXK-MDEX-MWI.IES

## POLAR GRAPH



Maximum Candela = 7054.67 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)