

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_41 ~ C1320YKSSXT-52LXXK-XNEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_41\_M-52L

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

[ISSUE DATE]

[TEST DATE] 10/16/2017

[UPDATE] 11/03/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-52L-xxK-XN-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra Narrow Beam

[OTHER] Integral Straight 3" Matte Black (interior) Deep Snoot for Additional Cutoff

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] 12.1 Degree Beam Angle, 21.8 Degree Field Angle

[LAMP] N/A, 9mm

[LAMPCAT] N/A, Min. 83 CRI

[OTHER] XN available for 52L and 80L versions only

[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 80L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3681
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	50
Total Luminaire Watts	73.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.22
Spacing Criterion (90-270)	0.22
Spacing Criterion (Diagonal)	0.22
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\_41 ~ C1320YKSSXT-52LXXK-XNEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	745	739	802
55	772	758	807
65	952	943	816
75	930	912	980
85	603	554	669

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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>	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715
<b>5</b>	26306.266	26252.824	26041.216	26164.157	25490.003	25432.303	25313.182	24878.033	25025.116	25049.458
<b>10</b>	4705.265	4659.206	4686.727	4716.393	5233.715	5813.678	6423.020	6426.953	6502.515	6458.101
<b>15</b>	1850.517	1845.896	1885.591	1858.168	1883.043	1893.456	1917.734	1934.055	1913.372	1880.788
<b>20</b>	1434.290	1404.585	1397.519	1404.013	1403.733	1413.724	1415.264	1388.133	1427.361	1405.820
<b>25</b>	1204.892	1208.532	1179.392	1165.528	1157.357	1160.250	1140.191	1103.479	1092.858	1103.219
<b>30</b>	1019.817	982.709	961.740	927.790	902.830	874.503	846.196	823.413	818.103	811.993
<b>35</b>	594.412	590.941	603.466	579.423	585.799	574.587	552.877	546.643	526.435	540.332
<b>40</b>	114.010	104.533	112.560	110.643	117.936	128.927	126.301	127.855	132.307	131.612
<b>45</b>	60.079	64.051	63.862	64.551	60.281	61.906	62.536	65.052	61.945	59.663
<b>50</b>	58.116	60.411	55.672	55.510	56.894	54.788	55.562	58.181	56.095	56.751
<b>55</b>	50.531	50.544	53.495	52.903	53.306	51.584	48.626	52.201	50.336	49.634
<b>60</b>	50.017	47.183	48.990	49.387	45.799	48.906	50.557	49.088	48.587	50.258
<b>65</b>	45.909	44.193	42.822	43.829	42.458	42.562	44.772	42.367	44.492	45.480
<b>70</b>	37.979	35.899	37.596	34.677	36.809	39.240	38.116	35.269	36.231	37.771
<b>75</b>	27.462	28.463	26.871	28.899	28.138	28.229	26.078	26.318	25.863	26.929
<b>80</b>	17.017	17.498	16.107	16.302	16.425	16.841	17.550	16.172	15.554	16.289
<b>85</b>	5.993	5.603	5.635	6.519	6.064	4.966	5.798	5.986	5.499	5.512
<b>90</b>	0.312	0.071	0.084	0.000	0.084	0.000	0.084	0.000	0.143	0.084

## 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>	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715	43485.715
<b>5</b>	25119.678	25071.487	25234.624	24713.136	24907.907	25347.250	25056.082	225232.253	25355.674
<b>10</b>	6516.315	6425.185	6450.418	5712.369	5070.136	4634.747	4617.151	4575.941	4626.635
<b>15</b>	1930.929	1929.486	1884.096	1875.815	1841.183	1809.366	1813.383	1806.675	1836.510
<b>20</b>	1421.153	1372.319	1387.548	1414.387	1431.254	1447.602	1428.271	1437.572	1440.419
<b>25</b>	1106.989	1108.289	1129.303	1155.173	1172.275	1198.554	1238.984	1242.891	1264.919
<b>30</b>	817.563	821.184	855.803	889.785	887.016	923.767	951.164	984.054	984.444
<b>35</b>	534.183	540.481	538.232	568.542	578.838	570.934	581.262	592.624	582.647
<b>40</b>	133.555	128.726	133.867	135.401	111.319	109.336	111.936	104.786	115.063
<b>45</b>	62.848	59.540	61.756	63.316	65.318	64.941	64.974	67.223	64.727
<b>50</b>	53.339	56.589	54.788	58.597	58.129	60.040	59.130	58.006	55.406
<b>55</b>	55.308	49.179	50.953	53.430	49.959	52.195	50.485	47.879	52.812
<b>60</b>	47.417	48.659	49.205	49.159	45.201	49.211	48.990	52.195	47.443
<b>65</b>	42.276	42.074	42.341	44.005	41.236	43.400	41.678	41.060	39.370
<b>70</b>	37.492	38.252	35.282	36.003	37.687	35.893	35.444	35.938	36.783
<b>75</b>	26.851	28.268	27.189	26.910	27.748	27.183	28.099	28.548	28.957
<b>80</b>	15.951	15.821	17.576	16.061	15.626	16.945	16.900	18.239	17.478
<b>85</b>	5.687	6.337	6.539	6.695	5.752	7.059	5.271	5.674	6.656
<b>90</b>	0.000	0.169	0.071	0.084	0.071	0.169	0.084	0.104	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_41 ~ C1320YKSSXT-52LXXK-XNEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	2637.7	N.A.	71.70
0-30	3167.67	N.A.	86.10
0-40	3497.3	N.A.	95.00
0-60	3602.3	N.A.	97.90
0-80	3673.37	N.A.	99.80
0-90	3681.15	N.A.	100.00
10-90	1753.84	N.A.	47.60
20-40	859.60	N.A.	23.40
20-50	917.94	N.A.	24.90
40-70	147.49	N.A.	4.00
60-80	71.07	N.A.	1.90
70-80	28.58	N.A.	0.80
80-90	7.78	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	3681.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1927.31
10-20	710.39
20-30	529.98
30-40	329.62
40-50	58.34
50-60	46.67
60-70	42.48
70-80	28.58
80-90	7.78
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

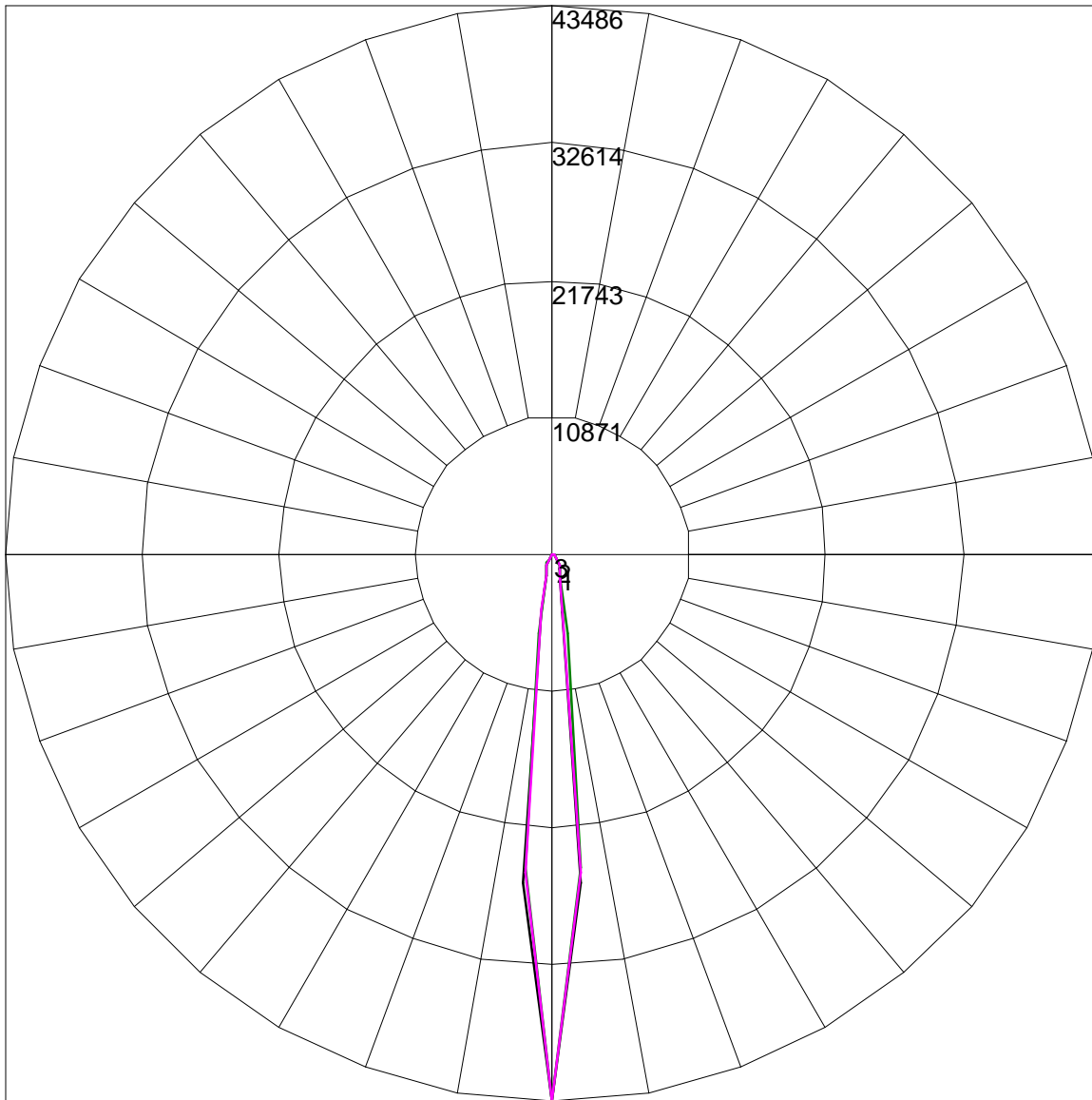
Effective Floor Cavity Reflectance 0.20

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	115	113	111	109	112	110	109	107	106	105	104	103	102	101	99	99	98	96
2	111	107	104	101	109	105	103	100	102	100	98	99	98	96	97	95	94	93
3	107	102	99	96	105	101	98	95	99	96	93	96	94	92	94	92	91	89
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	87
5	101	95	91	88	99	94	90	87	92	89	87	91	88	86	90	87	85	84
6	98	92	88	85	97	91	87	84	90	86	84	89	86	83	87	85	83	82
7	96	89	85	82	95	89	85	82	87	84	81	86	83	81	85	83	81	80
8	93	87	83	80	92	86	82	80	85	82	79	84	81	79	84	81	79	78
9	91	85	81	78	90	84	80	78	83	80	78	83	80	77	82	79	77	76
10	89	83	79	76	88	82	79	76	82	78	76	81	78	76	80	78	76	75

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## POLAR GRAPH



Maximum Candela = 43485.715 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)