

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_45 ~ C1320YKSSXT-52LXXK-NDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_45\_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-MBI

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

[OTHER] Integral Straight 3" Matte Black (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] 24.5 Degree Beam Angle, 45.7 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	4172
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
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\_45 ~ C1320YKSSXT-52LXXK-NDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	182	249	193
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

# IES INDOOR REPORT

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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>	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151
<b>5</b>	15798.564	15963.368	15608.821	15875.961	15838.495	15666.354	15689.910	15819.000	15675.194	15797.404
<b>10</b>	11640.785	11579.250	11730.818	11777.768	11749.368	11767.626	11540.505	11578.576	11654.318	11779.113
<b>15</b>	6275.237	6145.277	6262.942	6246.640	6182.311	6240.707	6224.007	6223.833	6216.137	6145.347
<b>20</b>	2394.434	2429.565	2401.711	2440.776	2464.524	2512.879	2561.169	2614.230	2657.153	2660.845
<b>25</b>	1423.997	1409.028	1442.771	1423.513	1370.140	1289.002	1185.980	1102.137	1080.591	1027.047
<b>30</b>	1098.549	1028.131	947.146	844.025	823.163	757.294	761.693	751.395	793.663	783.858
<b>35</b>	290.355	324.951	429.876	476.770	523.479	516.311	520.832	507.590	531.300	514.953
<b>40</b>	104.928	94.845	99.616	103.137	128.666	156.003	188.848	200.447	196.901	200.073
<b>45</b>	14.651	13.406	14.685	13.018	13.406	14.490	12.126	15.683	18.686	20.069
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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>
<b>0</b>	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151	18451.151
<b>5</b>	15673.629	15676.359	15997.459	15841.420	15745.810	15920.241	15953.186	15940.844	15899.246
<b>10</b>	11702.368	11703.078	11749.296	11737.023	11756.305	11767.925	11789.723	11733.014	11606.173
<b>15</b>	6215.399	6200.774	6187.730	6228.861	6207.510	6149.148	6202.542	6236.037	6085.089
<b>20</b>	2639.299	2623.988	2591.402	2513.207	2532.603	2459.470	2396.360	2398.692	2392.619
<b>25</b>	1025.076	1097.959	1171.953	1300.359	1376.388	1440.410	1397.991	1397.445	1412.538
<b>30</b>	758.256	755.248	770.793	778.146	805.366	869.791	976.695	1004.843	1087.655
<b>35</b>	512.309	513.412	505.401	513.318	536.281	461.404	408.665	330.065	296.403
<b>40</b>	209.466	195.166	193.450	164.601	123.024	100.342	98.514	99.021	98.342
<b>45</b>	19.032	15.059	14.758	15.244	13.052	14.427	16.078	14.973	15.535
<b>50</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_45 ~ C1320YKSSXT-52LXXK-NDEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3175.11	N.A.	76.10
0-30	3841.75	N.A.	92.10
0-40	4138.47	N.A.	99.20
0-60	4171.65	N.A.	100.00
0-80	4171.65	N.A.	100.00
0-90	4171.65	N.A.	100.00
10-90	2777.84	N.A.	66.60
20-40	963.36	N.A.	23.10
20-50	996.54	N.A.	23.90
40-70	33.18	N.A.	0.80
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	4171.65	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1393.81
10-20	1781.3
20-30	666.64
30-40	296.72
40-50	33.18
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
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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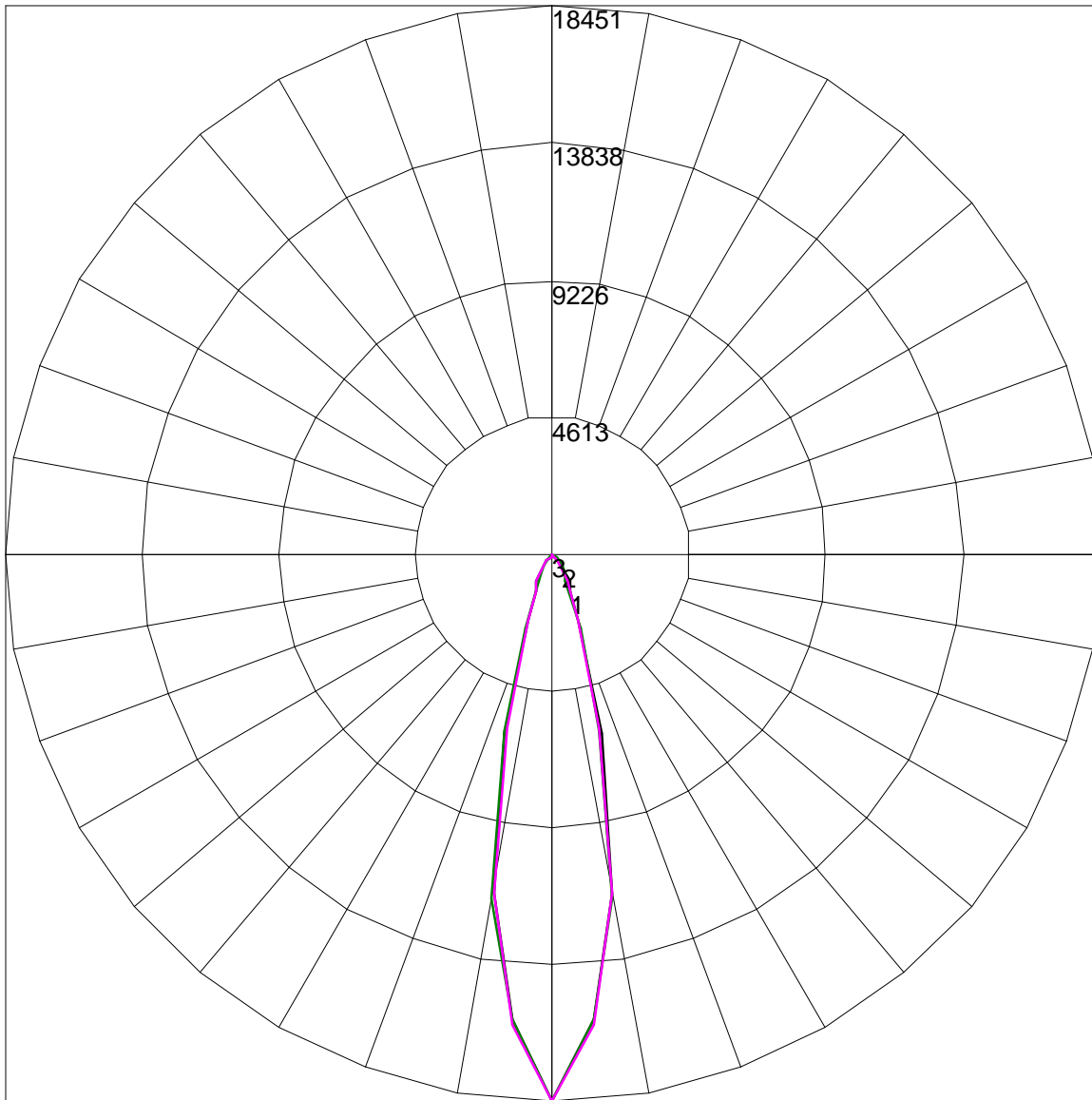
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	96	94	92	94	93	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	86
5	101	95	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84
6	98	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	94	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	85	81	78	84	80	77	83	80	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

POLAR GRAPH



Maximum Candela = 18451.151 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)