

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_43 ~ C1320YKFSXT-52LXXK-NDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_43\_M-52L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-52L-xxK-ND-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Narrow Beam

[OTHER] Integral Flared 3" Matte Black (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] 24.8 Degree Beam Angle, 52 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	4655
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	22
Total Luminaire Watts	207
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\_43 ~ C1320YKFSXT-52LXXK-NDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	359	363	379
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949
<b>5</b>	15788.236	15929.464	15674.256	15853.603	15813.870	15905.003	15670.041	15725.291	15913.843	15854.246
<b>10</b>	11806.238	11613.493	11750.023	11623.328	11693.063	11800.656	11677.913	11649.433	11606.173	11765.403
<b>15</b>	6189.196	6264.170	6253.837	6263.792	6221.285	6254.201	6206.767	6174.147	6191.538	6176.703
<b>20</b>	2766.600	2808.239	2792.847	2860.351	2807.150	2817.960	2840.895	2776.576	2819.786	2799.209
<b>25</b>	1944.563	1890.546	1951.373	1960.717	1919.863	1902.443	1931.267	1955.387	1984.018	1911.229
<b>30</b>	1354.985	1323.569	1308.476	1356.030	1360.564	1391.411	1409.569	1494.238	1537.663	1550.214
<b>35</b>	808.670	788.445	812.152	819.806	773.539	762.567	720.216	655.083	626.220	598.429
<b>40</b>	322.273	327.161	304.998	278.668	239.684	207.181	197.075	202.108	208.606	199.875
<b>45</b>	28.933	28.967	27.776	33.041	31.621	29.162	29.466	32.620	30.849	29.292
<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>	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949	18270.949
<b>5</b>	15839.293	15796.505	15944.744	15640.221	15936.967	15688.111	15744.760	15837.811	15642.010
<b>10</b>	11570.855	11640.969	11662.448	11742.840	11639.388	11597.313	11764.801	11690.513	11613.625
<b>15</b>	6152.684	6179.820	6122.566	6282.822	6103.937	6172.163	6248.083	6186.403	6106.620
<b>20</b>	2848.531	2851.175	2843.877	2809.089	2788.562	2767.513	2862.103	2884.458	2777.645
<b>25</b>	1980.446	1957.168	1948.417	1954.501	1916.093	1902.722	1935.703	1909.731	1980.508
<b>30</b>	1554.106	1523.475	1454.723	1428.996	1388.408	1315.608	1352.296	1348.376	1372.194
<b>35</b>	617.536	656.773	725.132	742.217	798.408	777.197	788.044	787.862	788.099
<b>40</b>	205.293	204.376	201.620	206.677	229.687	273.304	296.767	319.012	325.424
<b>45</b>	32.214	31.470	30.891	31.213	29.559	30.194	27.186	26.517	30.584
<b>50</b>	0.000	0.081	0.000	0.000	0.081	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\_43 ~ C1320YKFSXT-52LXXK-NDEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3194.34	N.A.	68.60
0-30	4117.45	N.A.	88.40
0-40	4597.95	N.A.	98.80
0-60	4655.13	N.A.	100.00
0-80	4655.13	N.A.	100.00
0-90	4655.13	N.A.	100.00
10-90	3264.64	N.A.	70.10
20-40	1403.61	N.A.	30.20
20-50	1460.79	N.A.	31.40
40-70	57.19	N.A.	1.20
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	4655.13	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1390.49
10-20	1803.85
20-30	923.11
30-40	480.50
40-50	57.18
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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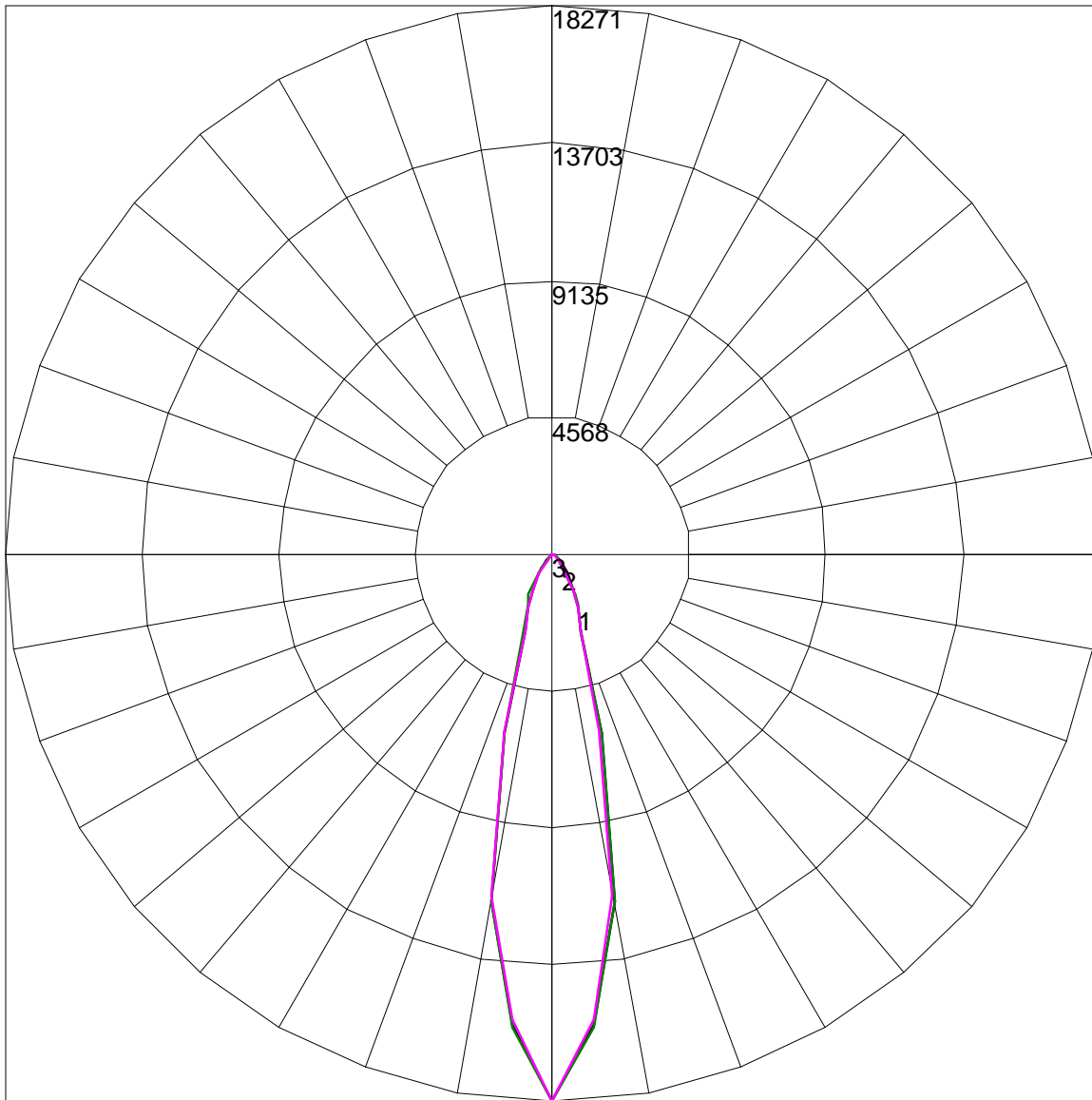
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	110	109	112	110	109	107	106	105	104	103	102	101	99	98	98	96
2	111	107	103	101	108	105	102	100	102	100	97	99	97	95	96	95	93	92
3	107	102	98	95	105	100	97	94	98	95	92	95	93	91	93	91	90	88
4	103	97	93	89	101	96	92	89	94	91	88	92	89	87	90	88	86	85
5	99	93	88	85	98	92	88	85	90	87	84	89	86	83	87	85	83	81
6	96	89	84	81	95	88	84	81	87	83	80	86	82	80	85	82	79	78
7	93	86	81	78	92	85	81	78	84	80	77	83	79	77	82	79	77	75
8	90	83	78	75	89	82	78	75	81	77	74	80	77	74	79	76	74	73
9	87	80	75	72	86	79	75	72	78	74	72	78	74	72	77	74	71	70
10	84	77	73	70	84	77	72	70	76	72	69	75	72	69	75	71	69	68

POLAR GRAPH



Maximum Candela = 18270.949 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)