

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_49 ~ C1320YKSSXT-120LXXK-WDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_49\_M-120L

[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-120L-xxK-WD-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Wide 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] 44.2 Degree Beam Angle, 75.6 Degree Field Angle

[LAMPCAT] LED 3000lm

[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	7242
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	52
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.80
Spacing Criterion (Diagonal)	0.68
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\_49 ~ C1320YKSSXT-120LXXK-WDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6006	3703	5551
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>	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004
<b>5</b>	10008.258	9971.472	10238.070	10167.162	9962.118	10222.633	10017.924	10100.466	10120.074	10142.796
<b>10</b>	10921.974	11145.906	11088.396	11142.481	11013.072	11021.664	10978.656	10921.854	10856.094	11042.929
<b>15</b>	9938.502	9819.666	10012.242	9882.396	9833.820	9897.054	10033.033	9854.322	9994.608	10063.506
<b>20</b>	6750.144	6821.358	6911.298	7007.730	7120.590	7195.728	7158.618	7123.008	7257.522	7228.812
<b>25</b>	4944.486	4827.306	4679.454	4638.984	4505.400	4259.916	4011.906	3826.002	3636.240	3659.484
<b>30</b>	3290.598	3200.526	2933.640	2696.958	2510.628	2475.030	2483.334	2569.920	2463.060	2541.624
<b>35</b>	1240.596	1310.232	1602.474	1799.490	1908.642	1969.098	2023.548	1967.454	1953.018	1983.828
<b>40</b>	821.238	815.910	782.748	837.390	909.090	1039.128	1263.972	1483.440	1597.482	1575.780
<b>45</b>	484.620	527.700	476.772	507.450	504.606	434.130	410.532	349.032	297.192	298.764
<b>50</b>	56.304	58.434	42.834	27.606	14.832	1.818	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. 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>	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004	10277.004
<b>5</b>	10000.518	10125.631	9987.948	10009.806	10053.931	9856.098	10145.910	10223.377	10027.668
<b>10</b>	10947.618	10929.024	11100.264	10718.502	11132.808	11092.627	10980.690	10993.056	10849.056
<b>15</b>	10068.487	10014.037	9972.708	9879.444	9887.029	9926.118	9849.037	9823.272	9799.722
<b>20</b>	7296.060	7247.322	7061.250	7133.778	6960.426	6880.722	6949.464	6873.114	6957.990
<b>25</b>	3625.296	3801.540	3977.070	4195.734	4549.734	4629.504	4849.074	4742.724	4905.096
<b>30</b>	2525.034	2609.946	2548.794	2531.280	2668.266	2710.230	2950.032	3194.136	3404.136
<b>35</b>	1954.680	1968.774	1936.818	2012.070	1880.226	1818.858	1581.894	1349.748	1204.062
<b>40</b>	1521.612	1446.336	1250.304	1038.738	886.218	825.918	815.448	834.714	778.152
<b>45</b>	314.166	325.644	405.450	460.848	487.818	516.210	523.518	485.778	447.924
<b>50</b>	0.000	0.000	0.000	3.714	12.348	25.764	43.482	56.928	56.208
<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

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Zone	Lumens	%Lamp	%Fixt
0-20	3638.51	N.A.	50.20
0-30	5717.59	N.A.	78.90
0-40	6863.59	N.A.	94.80
0-60	7242.12	N.A.	100.00
0-80	7242.12	N.A.	100.00
0-90	7242.12	N.A.	100.00
10-90	6244.88	N.A.	86.20
20-40	3225.08	N.A.	44.50
20-50	3599.45	N.A.	49.70
40-70	378.53	N.A.	5.20
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	7242.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	997.24
10-20	2641.27
20-30	2079.08
30-40	1146.00
40-50	374.38
50-60	4.16
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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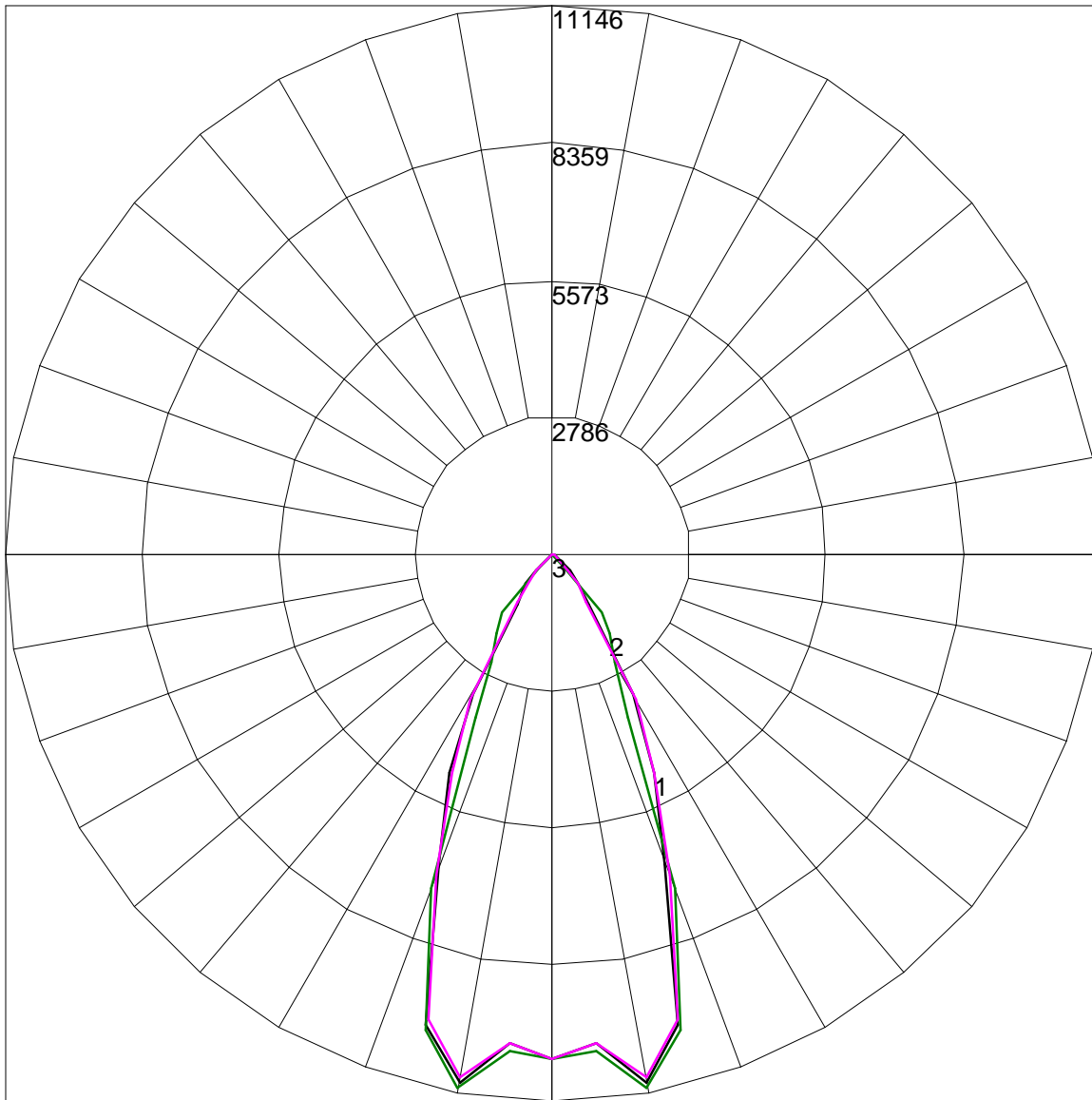
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	114	111	109	107	112	109	107	105	105	104	102	102	100	99	98	97	96	94
2	109	104	101	98	107	103	99	96	99	97	94	97	94	92	94	92	90	89
3	104	98	93	90	102	97	92	89	94	91	88	92	89	86	90	87	85	84
4	99	92	87	83	98	91	87	83	89	85	82	87	84	81	85	82	80	79
5	95	87	82	78	93	86	81	77	84	80	77	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	85	77	72	68	76	72	68	75	71	68	74	70	67	66
8	83	74	69	65	82	74	68	65	72	68	64	71	67	64	71	67	64	63
9	79	70	65	61	78	70	65	61	69	64	61	68	64	61	67	64	61	59
10	76	67	62	58	75	67	62	58	66	61	58	65	61	58	64	61	58	56

POLAR GRAPH



Maximum Candela = 11145.906 Located At Horizontal Angle = 5, Vertical Angle = 10

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)