

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_36 ~ C1320YKFSXT-120LXXK-MDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_36

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

[LUMCAT] C1320YKFSXT-120L-xxK-MD-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium 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] 36.9 Degree Beam Angle, 84.1 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

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9222
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
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\_36 ~ C1320YKFSXT-120LXXK-MDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	8965	15219	7776
55	559	341	552
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>	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51
<b>5</b>	14748.59	14030.84	14099.49	13826.75	14154.89	14248.08	14342.99	14203.03	14198.49	14138.37
<b>10</b>	12122.77	12262.85	12201.02	12245.47	12317.57	12152.55	12387.36	12244.61	12128.18	12244.89
<b>15</b>	9173.46	8953.87	9078.76	9140.17	8984.13	9061.39	9164.12	9044.87	9151.33	9121.02
<b>20</b>	7091.37	7422.72	7203.57	7111.36	7031.62	7245.98	7315.85	7188.17	7256.59	7186.84
<b>25</b>	5750.44	5862.15	5989.24	6018.05	5971.87	5976.01	6058.07	6045.26	6115.52	6130.65
<b>30</b>	3957.78	3916.69	4035.39	4065.81	4172.70	4164.21	4230.95	4349.51	4500.52	4451.03
<b>35</b>	2708.48	2856.46	2872.30	2874.23	2783.52	2610.91	2323.89	2229.35	2130.22	2116.72
<b>40</b>	2189.90	2169.93	1973.34	1819.99	1702.94	1635.73	1614.73	1546.93	1615.80	1642.93
<b>45</b>	723.41	838.42	950.99	1074.62	1183.71	1216.85	1211.93	1211.99	1216.95	1228.06
<b>50</b>	225.32	253.06	254.17	266.26	295.59	367.48	438.35	483.32	523.99	516.20
<b>55</b>	36.56	28.63	33.97	32.98	38.18	28.61	28.17	28.84	28.07	22.34
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

**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>	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51	15475.51
<b>5</b>	14282.53	13991.41	14192.67	14015.56	14280.74	14147.09	13867.31	14304.56	14489.54
<b>10</b>	12166.95	12281.23	12145.54	12083.73	12290.56	12229.02	12126.49	12257.86	12403.46
<b>15</b>	9070.32	9296.63	9187.33	8875.67	9079.29	9198.25	9095.32	8949.79	8945.32
<b>20</b>	7183.89	7214.59	7183.88	7238.05	7198.69	7254.03	7231.77	7255.43	7198.18
<b>25</b>	6082.49	6066.05	6003.86	5949.78	5954.89	6020.73	5911.95	5877.14	5815.59
<b>30</b>	4506.42	4355.63	4252.67	4236.49	4106.41	4029.01	3975.42	3956.55	3944.72
<b>35</b>	2174.53	2273.73	2350.32	2544.40	2717.48	2892.92	2842.98	2848.71	2783.29
<b>40</b>	1598.75	1608.45	1629.02	1639.50	1743.63	1812.80	2052.52	2213.56	2263.86
<b>45</b>	1268.98	1277.12	1187.19	1256.97	1191.08	1135.96	931.31	784.23	627.48
<b>50</b>	531.97	482.31	455.08	356.14	288.25	251.97	243.66	243.92	258.58
<b>55</b>	22.36	22.56	32.04	32.08	33.19	33.44	35.14	34.34	36.16
<b>60</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>65</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>70</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>75</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>80</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>85</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>90</b>	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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Zone	Lumens	%Lamp	%Fixt
0-20	3905.51	N.A.	42.40
0-30	6577.55	N.A.	71.30
0-40	8298.11	N.A.	90.00
0-60	9221.75	N.A.	100.00
0-80	9221.75	N.A.	100.00
0-90	9221.75	N.A.	100.00
10-90	7923.46	N.A.	85.90
20-40	4392.61	N.A.	47.60
20-50	5224.06	N.A.	56.60
40-70	923.64	N.A.	10.00
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	9221.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1298.29
10-20	2607.22
20-30	2672.05
30-40	1720.56
40-50	831.46
50-60	92.18
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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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

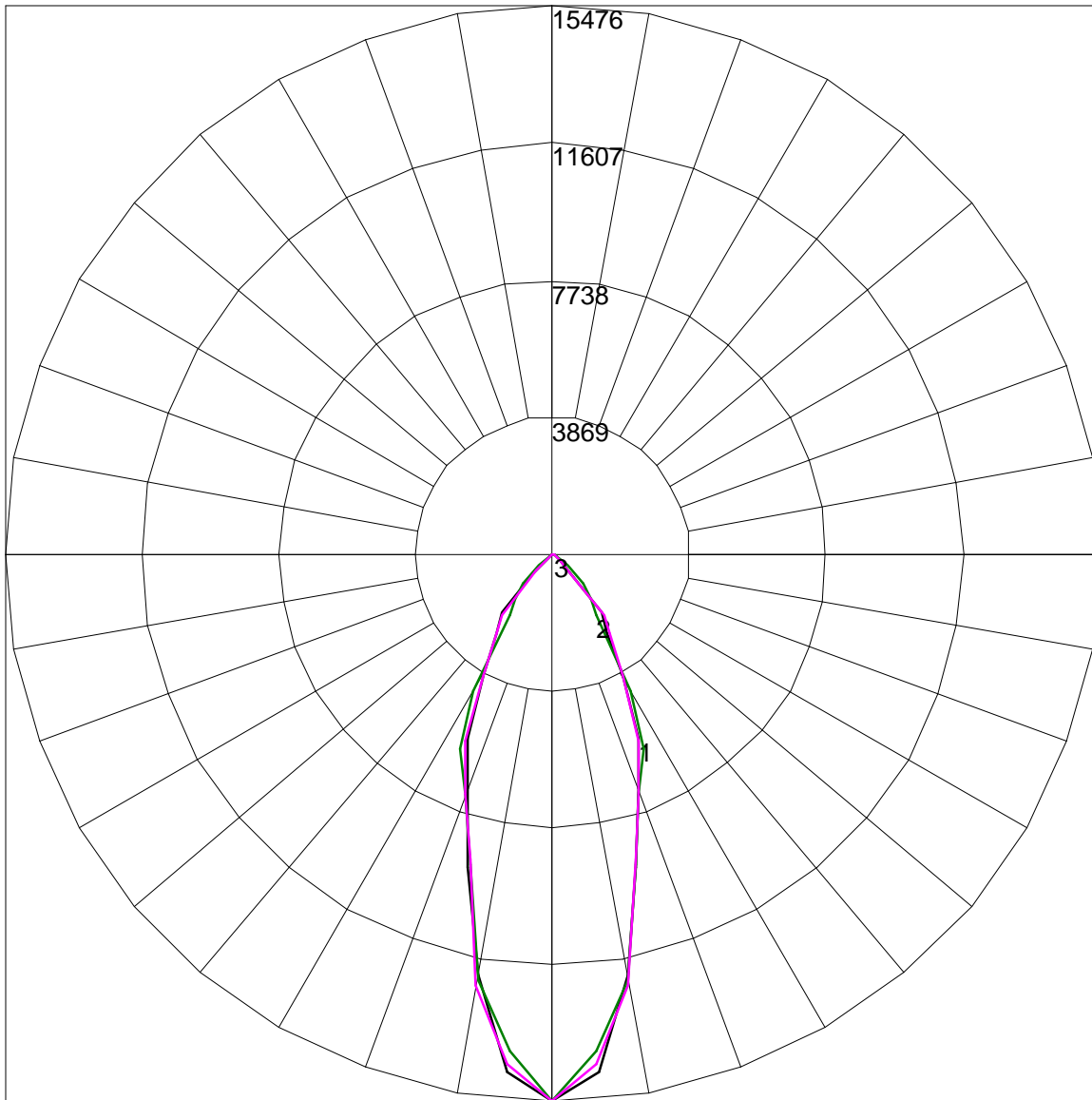
Effective Floor Cavity Reflectance 0.20

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	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53

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## POLAR GRAPH



Maximum Candela = 15475.51 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)