

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_51 ~ C1320YKFSXT-120LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_51\_M-120L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra Wide 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] 54.5 Degree Beam Angle, 88.1 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, scaled from 200L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9516
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
Spacing Criterion (Diagonal)	0.88
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\_51 ~ C1320YKFSXT-120LXXK-XWEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7391	12179	7574
55	545	363	502
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>	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048
<b>5</b>	11141.094	11267.833	11135.274	11260.764	11064.883	11203.212	10979.154	11278.506	11170.074	11373.858
<b>10</b>	10438.104	10584.516	10375.735	10507.087	10510.140	10537.183	10573.398	10483.152	10414.920	10452.000
<b>15</b>	9507.924	9698.874	9716.910	9518.592	9461.934	9655.818	9589.680	9617.940	9537.606	9470.886
<b>20</b>	7790.472	7911.960	7942.380	7843.020	7937.964	7812.174	7898.964	8034.612	7932.852	7909.728
<b>25</b>	6563.016	6636.024	6628.776	6538.032	6548.238	6692.328	6569.832	6653.556	6523.746	6575.040
<b>30</b>	4649.232	4606.146	4720.146	4682.322	4765.056	4885.704	4961.616	5041.968	5131.032	5127.048
<b>35</b>	3502.074	3464.016	3463.164	3537.630	3453.390	3286.278	3043.104	2908.824	2753.064	2702.802
<b>40</b>	2369.316	2287.272	2095.884	1939.776	1766.574	1729.146	1751.808	1771.662	1756.044	1751.730
<b>45</b>	596.418	676.938	809.634	920.454	959.274	947.070	946.992	965.100	956.580	982.716
<b>50</b>	165.498	199.398	200.460	183.972	231.318	286.188	361.536	381.816	397.398	418.986
<b>55</b>	35.682	29.682	29.052	31.308	29.754	28.626	25.680	23.124	17.694	23.784
<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>	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048	11079.048
<b>5</b>	11184.972	11086.644	11068.081	11067.012	11383.938	11300.112	11261.070	11347.614	11093.790
<b>10</b>	10504.435	10482.654	10464.187	10504.158	10512.660	10567.638	10388.581	10661.970	10487.838
<b>15</b>	9631.056	9593.538	9514.902	9451.284	9621.084	9552.966	9648.504	9695.106	9444.348
<b>20</b>	7935.780	7984.236	7986.774	7938.756	7904.706	7861.878	8038.596	7902.534	7962.912
<b>25</b>	6606.564	6568.620	6549.984	6490.932	6578.958	6470.268	6437.490	6535.650	6497.130
<b>30</b>	5096.478	5171.376	4973.214	4896.174	4765.122	4684.560	4726.056	4634.316	4648.542
<b>35</b>	2843.508	2891.178	3012.078	3291.648	3430.674	3443.826	3499.674	3455.388	3458.160
<b>40</b>	1748.760	1767.414	1757.232	1762.380	1795.560	1847.214	2088.480	2291.412	2394.420
<b>45</b>	981.186	944.190	989.796	988.644	979.062	893.814	800.136	700.716	611.172
<b>50</b>	389.868	374.058	348.792	284.916	231.870	205.740	198.594	191.082	198.828
<b>55</b>	20.838	24.858	30.498	27.240	31.776	30.456	34.590	31.242	32.886
<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	3676.33	N.A.	38.60
0-30	6641.72	N.A.	69.80
0-40	8686.94	N.A.	91.30
0-60	9515.55	N.A.	100.00
0-80	9515.55	N.A.	100.00
0-90	9515.55	N.A.	100.00
10-90	8473.09	N.A.	89.00
20-40	5010.62	N.A.	52.70
20-50	5765.43	N.A.	60.60
40-70	828.61	N.A.	8.70
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	9515.55	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1042.46
10-20	2633.87
20-30	2965.4
30-40	2045.22
40-50	754.81
50-60	73.79
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

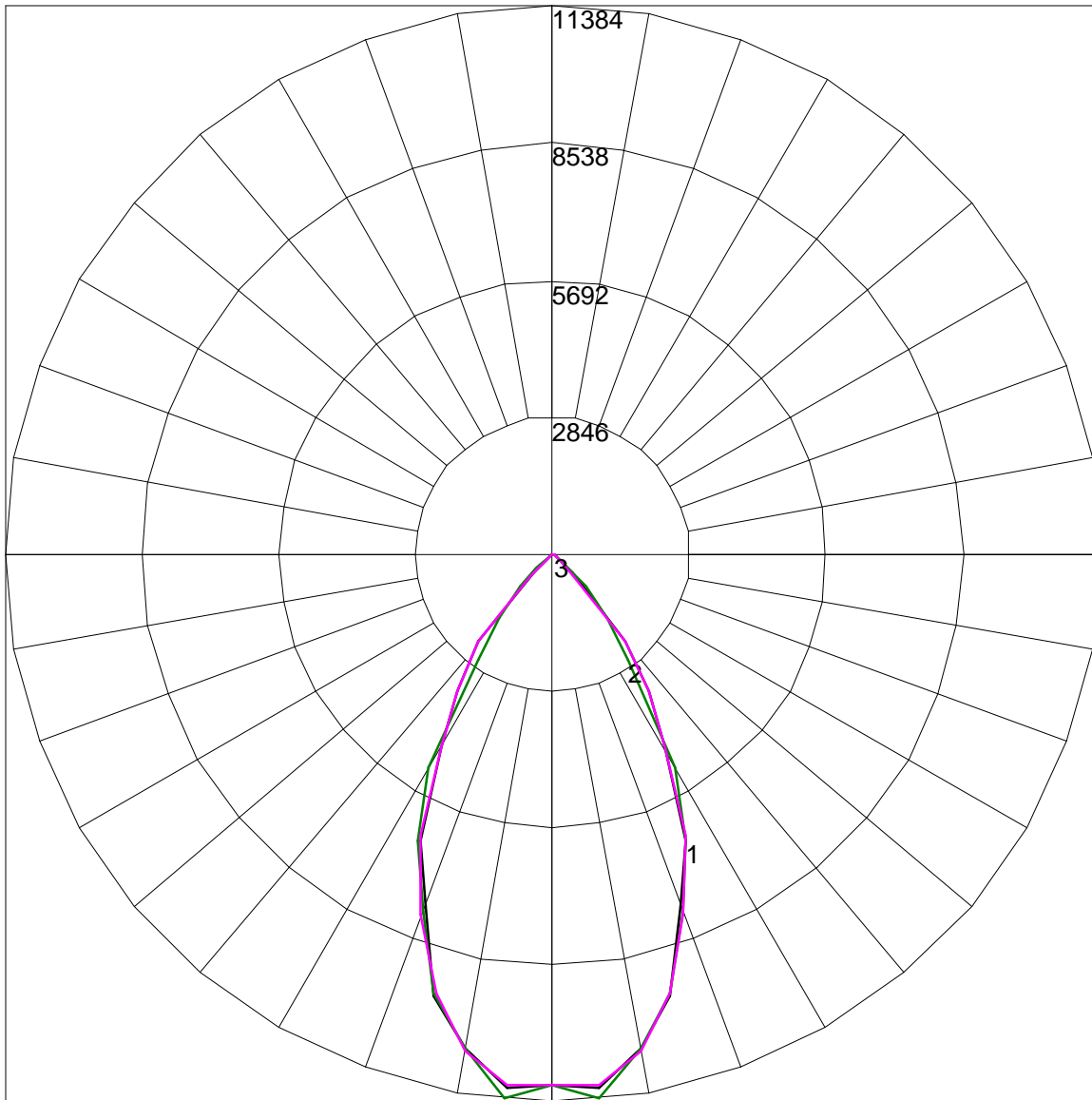
Effective Floor Cavity Reflectance 0.20

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	108	106	111	109	106	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81
4	97	90	84	80	96	89	84	80	86	82	79	85	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	60	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	56	53	71	62	56	53	61	56	52	60	56	52	59	55	52	51

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## POLAR GRAPH



Maximum Candela = 11383.938 Located At Horizontal Angle = 70, Vertical Angle = 5

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

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

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