

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-120LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_50\_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-MWI

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

[OTHER] Integral Flared 3" Matte White (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] 54.8 Degree Beam Angle, 89.8 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	10762
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.88
Spacing Criterion (90-270)	0.88
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\_50 ~ C1320YKFSXT-120LXXK-XWEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9888	14912	10266
55	3691	3728	3514
65	3736	3794	3902
75	3793	3858	3762
85	2502	2800	2440

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-120LXXK-XWEX-MWI.IES

## 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>
0	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764
5	11612.748	11903.479	11823.433	11813.083	11913.720	11787.294	11712.031	11861.814	11804.142	12052.237
10	11038.752	10995.954	10979.790	11154.252	11022.960	11092.237	11036.250	11124.240	11020.027	11013.048
15	10172.485	9916.890	10092.546	9955.218	10060.981	9978.427	9953.929	10113.996	10115.077	10078.290
20	8423.274	8440.530	8520.312	8392.086	8388.978	8333.442	8442.036	8382.558	8349.936	8401.158
25	6996.162	6981.534	7021.092	7013.874	6952.674	6829.224	6978.690	6942.528	6954.150	6940.794
30	4881.288	5024.088	5038.944	5012.754	5139.810	5102.364	5295.732	5363.472	5412.300	5380.188
35	3769.776	3765.906	3829.110	3780.048	3650.376	3488.436	3281.490	3118.296	3074.388	3071.772
40	2665.668	2545.896	2388.228	2143.884	2024.562	2005.608	1971.066	2004.102	1942.764	1975.818
45	797.862	923.604	1054.008	1105.896	1227.462	1228.548	1194.852	1221.468	1173.756	1203.264
50	407.286	421.500	420.432	416.832	445.980	504.258	569.478	603.360	640.998	617.016
55	241.578	240.120	240.408	240.228	243.678	240.600	231.582	252.138	236.502	244.002
60	196.584	200.580	196.140	213.648	208.482	198.864	205.914	195.828	202.278	202.980
65	180.168	178.578	181.236	177.042	182.580	189.570	179.466	194.202	199.788	182.958
70	175.326	167.934	166.080	176.916	161.724	167.880	161.700	167.220	154.698	162.024
75	112.014	118.224	122.472	121.374	116.202	115.368	113.556	113.622	119.886	113.934
80	68.682	71.286	69.990	70.110	68.712	67.632	76.218	70.068	74.598	71.730
85	24.882	26.760	25.074	26.976	26.154	26.082	21.750	26.394	23.724	27.852
90	0.000	1.602	2.064	0.516	0.984	0.960	1.062	0.606	1.602	0.990

## 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>
0	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764	11509.764
5	11858.281	12069.552	11613.906	11806.129	11678.958	11638.650	11795.670	11750.514	11887.938
10	10972.272	10953.187	11181.438	11043.960	11011.920	10901.568	10890.114	11145.966	10990.560
15	9993.516	9972.342	10087.098	10145.431	9946.729	9970.566	10060.129	10148.779	10014.714
20	8282.664	8308.362	8317.218	8368.026	8458.410	8317.122	8422.746	8329.500	8420.196
25	6907.446	6812.058	6901.074	6872.928	6918.834	7041.942	6925.098	7004.556	6933.684
30	5427.060	5403.774	5325.192	5204.412	5134.698	4974.276	5088.390	4922.682	4907.946
35	3066.702	3134.958	3342.114	3553.758	3619.446	3751.650	3743.634	3753.372	3790.080
40	1976.022	2018.664	1969.614	2029.266	2055.054	2197.674	2333.712	2457.876	2606.880
45	1154.862	1255.218	1210.428	1220.106	1238.724	1097.340	1021.008	892.494	828.366
50	619.614	600.702	568.374	502.776	447.600	417.636	428.544	407.664	421.146
55	239.874	250.878	243.930	251.808	241.674	242.046	232.266	237.306	230.034
60	204.222	210.576	212.220	203.058	198.798	203.712	200.412	209.796	206.874
65	191.214	210.564	187.344	193.356	186.036	200.994	180.936	185.172	188.202
70	163.638	157.458	155.370	162.090	166.668	162.036	165.684	167.244	169.092
75	110.820	114.966	115.584	114.186	120.846	119.424	121.386	124.782	111.108
80	65.322	67.902	74.682	66.450	75.654	71.574	72.966	71.124	72.168
85	25.074	29.904	22.896	21.600	28.242	25.068	23.892	27.570	24.264
90	0.690	0.960	1.818	0.666	0.276	0.828	0.456	0.822	2.022

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-120LXXK-XWEX-MWI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	3863.86	N.A.	35.90
0-30	7004.55	N.A.	65.10
0-40	9221.00	N.A.	85.70
0-60	10420.41	N.A.	96.80
0-80	10728.81	N.A.	99.70
0-90	10762.28	N.A.	100.00
10-90	9666.28	N.A.	89.80
20-40	5357.14	N.A.	49.80
20-50	6291.87	N.A.	58.50
40-70	1383.93	N.A.	12.90
60-80	308.40	N.A.	2.90
70-80	123.89	N.A.	1.20
80-90	33.47	N.A.	0.30
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	10762.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1096.01
10-20	2767.85
20-30	3140.68
30-40	2216.45
40-50	934.73
50-60	264.68
60-70	184.51
70-80	123.89
80-90	33.47
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-120LXXK-XWEX-MWI.IES

## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

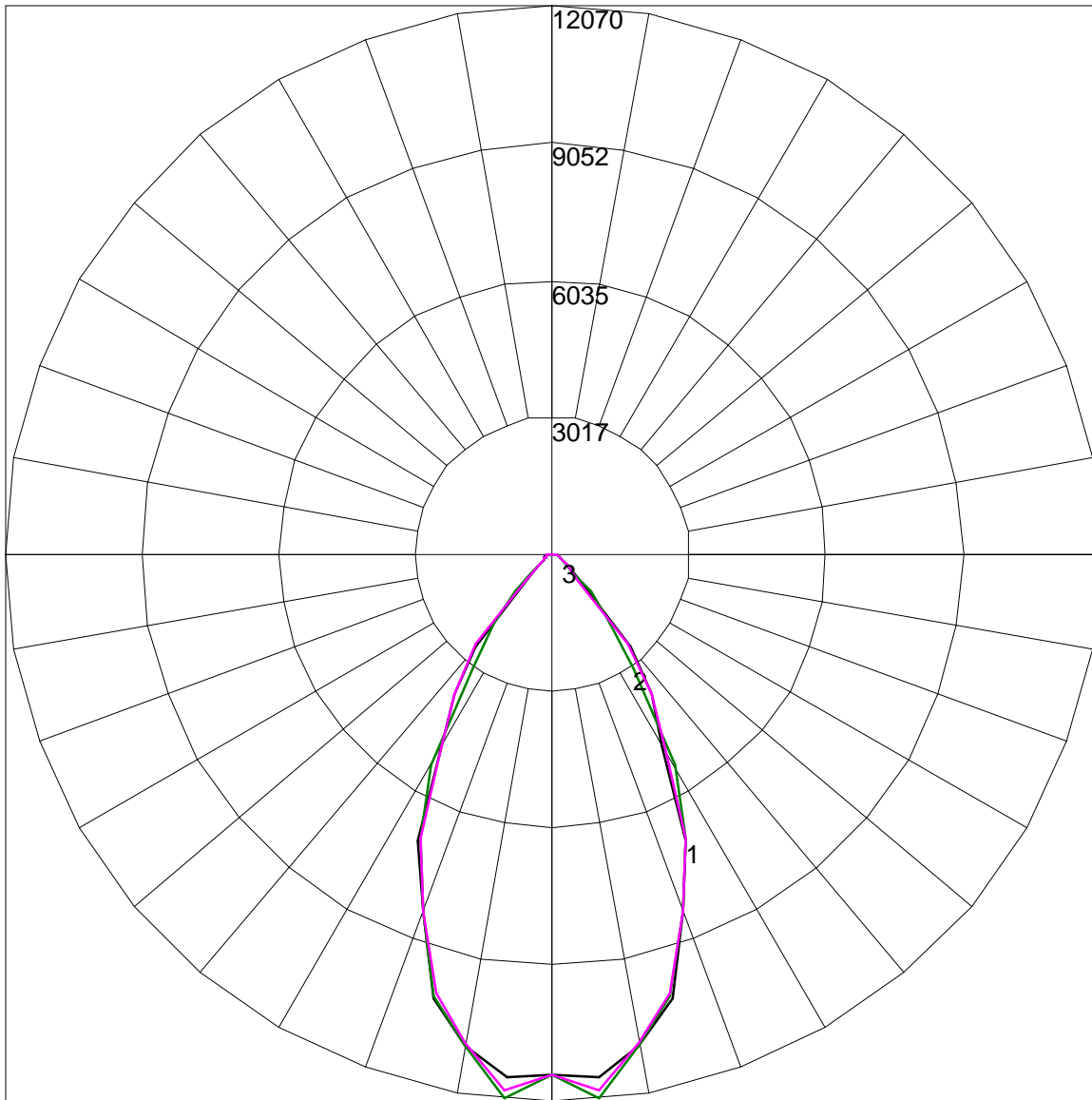
Effective Floor Cavity Reflectance 0.20

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	82	78	75	80	77	74	72
5	90	81	75	71	89	80	75	70	79	74	70	77	72	69	75	71	68	67
6	86	76	70	65	84	75	69	65	74	68	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	60	69	64	60	68	63	60	67	63	59	58
8	77	67	61	56	76	66	60	56	65	60	56	64	59	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	56	53	61	56	52	60	55	52	51
10	70	60	54	50	69	59	53	49	58	53	49	58	53	49	57	52	49	48

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_50 ~ C1320YKFSXT-120LXXK-XWEX-MWI.IES

## POLAR GRAPH



Maximum Candela = 12069.552 Located At Horizontal Angle = 55, 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)