

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_46 ~ C1320YKFSXT-120LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_46\_M-120L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-120L-xxK-WD-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, 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] 52.4 Degree Beam Angle, 89.6 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	10675
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
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\_46 ~ C1320YKFSXT-120LXXK-WDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10629	16155	10372
55	4054	3964	4064
65	4090	4380	4203
75	4454	4170	4425
85	1932	2668	2667

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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>	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431
<b>5</b>	10613.298	10503.762	10767.204	10620.385	10926.583	10815.408	10929.408	10532.472	10727.929	10595.935
<b>10</b>	11657.310	11463.427	11625.324	11766.144	11568.318	11599.152	11664.690	11846.664	11530.381	11674.188
<b>15</b>	10484.310	10634.460	10711.110	10606.392	10769.760	10771.783	10670.131	10680.402	10692.624	10738.585
<b>20</b>	8791.680	8844.354	8818.632	8857.524	8767.080	8835.906	8815.914	8843.136	8804.562	8719.758
<b>25</b>	6562.062	6722.874	6696.348	6667.458	6748.812	6622.854	6738.144	6744.708	6554.652	6639.228
<b>30</b>	4465.566	4541.028	4640.940	4606.074	4632.924	4678.404	4848.642	4849.488	5015.412	4955.352
<b>35</b>	3445.032	3381.780	3409.968	3441.084	3229.512	3123.912	2994.720	2744.922	2643.744	2661.762
<b>40</b>	2603.040	2473.872	2289.042	2124.840	1955.166	1899.354	1902.708	1897.284	1930.902	1894.962
<b>45</b>	857.694	906.630	1062.570	1157.274	1309.446	1326.990	1281.768	1268.916	1271.778	1303.554
<b>50</b>	433.332	448.068	443.310	456.846	465.582	541.734	596.574	656.616	653.274	673.980
<b>55</b>	265.320	251.118	261.030	256.344	256.380	262.392	258.474	254.838	262.410	259.434
<b>60</b>	205.728	218.340	212.790	218.742	220.830	231.072	222.810	221.064	220.704	226.290
<b>65</b>	197.268	196.854	197.118	203.646	206.880	205.566	212.904	202.944	206.634	211.230
<b>70</b>	178.038	179.946	172.866	180.342	173.538	169.410	172.464	177.468	168.426	174.480
<b>75</b>	131.550	125.442	128.160	130.944	124.830	135.162	119.394	133.818	118.524	123.168
<b>80</b>	66.072	67.794	74.202	72.504	76.224	76.590	73.176	74.796	72.570	71.658
<b>85</b>	19.212	25.116	25.686	26.700	28.110	29.712	28.158	27.012	26.448	26.538
<b>90</b>	1.464	1.434	0.828	1.098	0.510	0.672	0.270	0.546	0.366	0.762

**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>	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431	10757.431
<b>5</b>	10600.206	10761.096	10771.633	10732.146	10598.070	10728.787	10772.448	10845.985	10787.724
<b>10</b>	11911.062	11603.046	11621.887	11579.868	11554.698	11660.862	11698.140	11556.937	11785.020
<b>15</b>	10564.033	10632.931	10816.164	10509.331	10851.474	10671.960	10542.714	10793.214	10647.822
<b>20</b>	8765.652	8682.660	8841.660	8788.608	8744.772	8869.248	8920.206	8778.840	8765.976
<b>25</b>	6737.154	6623.622	6693.090	6750.438	6667.284	6615.252	6593.646	6755.412	6653.508
<b>30</b>	4951.626	4890.168	4775.796	4671.492	4563.606	4613.736	4555.230	4505.178	4480.560
<b>35</b>	2701.386	2832.804	2966.478	3170.472	3294.498	3390.636	3412.932	3466.110	3355.542
<b>40</b>	1877.598	1892.706	1858.926	1896.396	1973.664	2066.310	2310.792	2503.656	2595.630
<b>45</b>	1277.658	1293.894	1295.784	1280.712	1264.386	1204.320	1066.902	918.780	836.922
<b>50</b>	654.726	681.744	645.120	552.600	454.560	451.560	433.746	448.986	468.768
<b>55</b>	267.816	269.688	256.962	264.564	262.860	257.496	258.318	256.122	265.998
<b>60</b>	223.800	224.658	218.352	226.092	222.186	219.456	210.132	214.428	204.672
<b>65</b>	210.534	207.654	204.948	203.076	197.280	206.736	202.236	198.204	202.704
<b>70</b>	159.990	169.722	172.170	168.774	176.814	176.808	177.372	181.710	165.900
<b>75</b>	118.470	128.832	129.498	119.124	118.116	127.998	137.490	132.072	130.680
<b>80</b>	72.618	71.736	73.920	73.302	75.804	68.748	68.574	67.014	73.992
<b>85</b>	24.588	28.302	23.688	27.804	26.580	26.628	24.810	28.824	26.526
<b>90</b>	1.614	1.458	0.204	0.276	0.648	0.276	0.552	0.510	0.546

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Zone	Lumens	%Lamp	%Fixt
0-20	3986.88	N.A.	37.30
0-30	7051.44	N.A.	66.10
0-40	9072.96	N.A.	85.00
0-60	10309.97	N.A.	96.60
0-80	10640.45	N.A.	99.70
0-90	10674.77	N.A.	100.00
10-90	9617.96	N.A.	90.10
20-40	5086.08	N.A.	47.60
20-50	6038.3	N.A.	56.60
40-70	1435.72	N.A.	13.40
60-80	330.48	N.A.	3.10
70-80	131.78	N.A.	1.20
80-90	34.32	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	10674.77	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1056.81
10-20	2930.07
20-30	3064.56
30-40	2021.52
40-50	952.23
50-60	284.79
60-70	198.70
70-80	131.78
80-90	34.32
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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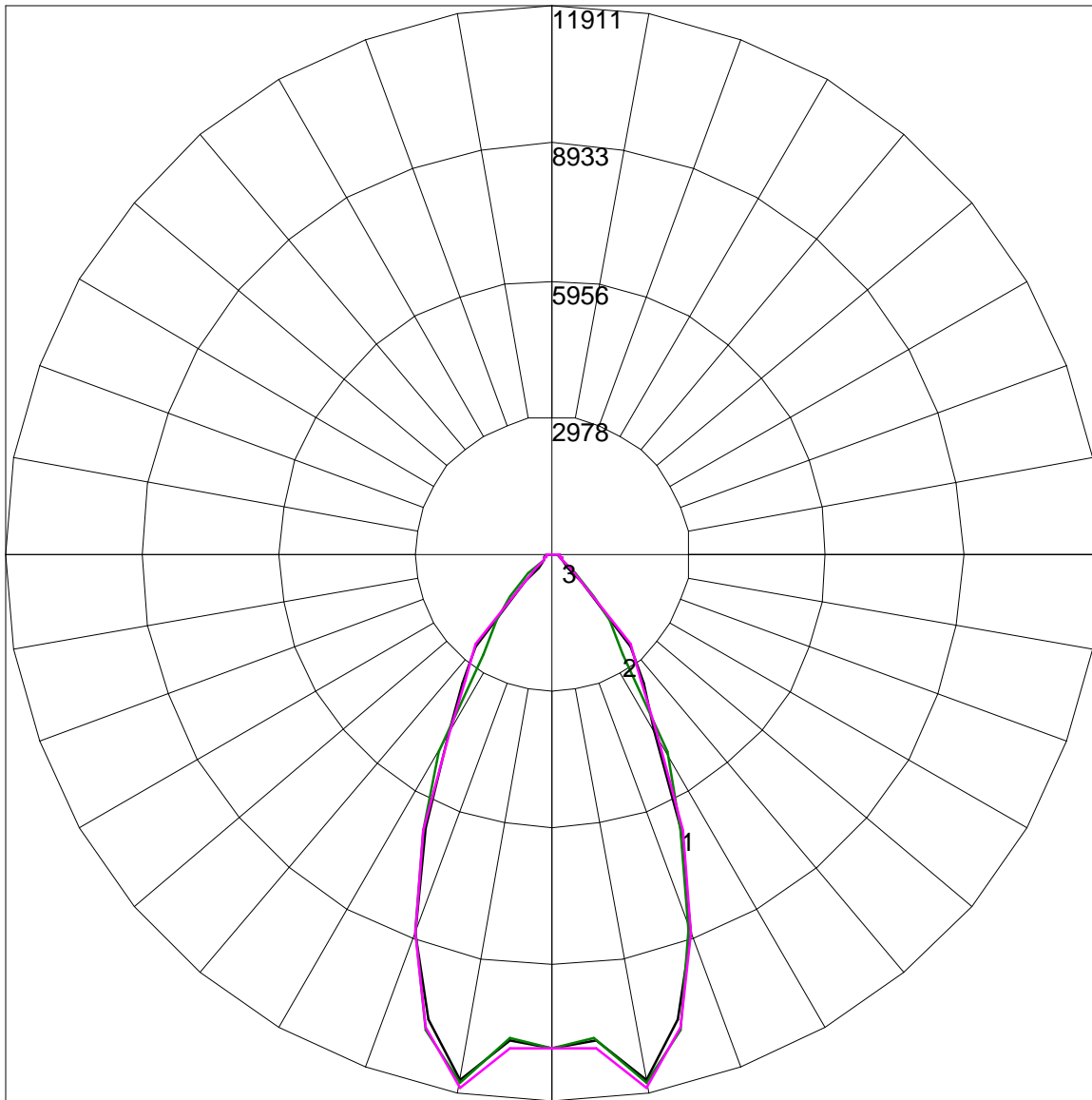
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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	76	82	78	75	80	77	74	72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	57	76	67	61	57	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

POLAR GRAPH



Maximum Candela = 11911.062 Located At Horizontal Angle = 50, 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)