

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_48 ~ C1320YKSSXT-120LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_48_M-120L

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

[ISSUEDATE]

[TESTDATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-120L-xxK-WD-EX-MWI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Wide Beam

[OTHER] Integral Straight 3" Matte White (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] 46.6 Degree Beam Angle, 87.5 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	9554
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)	0.84
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13849	10443	13373
55	7447	6949	7313
65	7675	7477	7862
75	6762	6802	6723
85	3963	4508	4032

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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>
0	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966
5	10291.435	10201.452	10190.977	10163.220	10211.964	10192.308	10296.504	10094.833	10451.838	9841.002
10	11476.044	11454.546	11264.760	11269.260	11486.118	11353.183	11428.585	11346.372	111313.733	11389.416
15	10576.164	10466.064	10470.379	10522.008	10425.174	10449.246	10348.687	10460.850	10589.287	10364.016
20	7772.442	7808.058	7715.010	7580.550	7602.516	7743.846	7643.742	7653.552	7566.552	7564.002
25	5876.112	5691.498	5613.840	5481.234	5134.848	4800.036	4518.798	4157.652	4070.898	3975.078
30	4138.134	4076.976	3680.178	3458.544	3232.896	3082.806	3023.160	2945.652	2975.148	2996.358
35	2030.652	2187.150	2282.904	2489.430	2532.318	2596.926	2574.468	2550.906	2472.444	2397.492
40	1493.580	1523.652	1494.054	1414.686	1468.962	1646.946	1786.902	2067.990	2074.986	2117.514
45	1117.476	1136.076	1091.562	1031.028	1019.766	990.594	955.152	847.272	821.838	842.640
50	599.430	589.974	582.720	548.994	513.786	489.486	502.344	485.880	483.420	482.994
55	487.428	481.512	473.664	477.000	485.136	455.586	453.120	448.362	458.466	454.872
60	455.766	444.708	438.768	429.534	436.470	408.930	415.920	422.988	427.860	424.986
65	370.152	378.276	364.284	360.048	364.098	373.974	359.514	360.930	361.206	360.612
70	286.632	284.310	282.858	277.920	274.710	270.210	290.610	287.526	286.440	278.034
75	199.704	199.716	197.940	202.998	198.306	196.740	198.546	193.806	199.152	200.910
80	119.322	114.138	113.370	119.400	122.184	122.460	116.382	120.798	121.830	127.902
85	39.420	40.152	43.056	40.674	41.100	44.010	42.732	41.664	42.162	44.838
90	0.648	0.270	0.000	0.690	1.140	0.780	0.486	0.900	0.510	0.276

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>
0	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966	10377.966
5	10320.168	10232.887	10155.288	10302.000	10187.683	10145.940	10056.438	10381.494	10181.412
10	11573.479	11327.346	11250.456	11115.252	11242.038	11484.181	11292.402	11619.192	11315.994
15	10427.904	10538.262	10430.148	10182.379	10348.446	10602.181	10409.202	10245.181	10456.333
20	7561.824	7552.512	7627.512	7736.010	7580.886	7781.334	7764.468	7785.666	7680.516
25	4046.814	4280.274	4472.034	4889.046	5114.268	5368.062	5666.376	5702.862	5684.400
30	3083.712	2977.992	3027.840	3153.408	3243.966	3478.260	3749.040	4110.648	4088.958
35	2466.300	2496.234	2520.720	2538.054	2570.280	2477.178	2356.986	2078.466	1991.508
40	2131.644	1913.484	1772.166	1619.118	1459.416	1433.970	1489.632	1474.506	1507.284
45	841.524	860.112	933.402	976.644	1034.670	1050.126	1095.300	1116.174	1079.058
50	477.774	470.922	478.434	492.102	524.832	560.730	561.330	611.226	598.686
55	461.436	455.262	438.396	461.178	473.982	466.092	465.528	466.500	478.668
60	414.480	410.904	415.422	424.092	434.454	427.320	428.412	426.798	433.932
65	367.056	357.054	360.954	370.140	367.770	352.812	367.218	370.278	379.152
70	286.158	269.154	286.656	283.416	288.618	277.596	285.060	283.800	283.512
75	199.722	198.996	203.928	198.960	192.588	201.390	198.876	207.042	198.564
80	121.170	120.930	118.644	118.974	123.144	121.554	119.094	123.804	114.738
85	44.706	44.040	40.380	42.378	38.760	37.728	42.780	41.868	40.098
90	0.996	0.210	0.270	0.000	0.000	0.000	0.000	0.720	0.546

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Zone	Lumens	%Lamp	%Fixt
0-20	3802.51	N.A.	39.80
0-30	6172.55	N.A.	64.60
0-40	7709.26	N.A.	80.70
0-60	8930.82	N.A.	93.50
0-80	9498.47	N.A.	99.40
0-90	9554.05	N.A.	100.00
10-90	8536.36	N.A.	89.30
20-40	3906.75	N.A.	40.90
20-50	4707.19	N.A.	49.30
40-70	1577.86	N.A.	16.50
60-80	567.65	N.A.	5.90
70-80	211.35	N.A.	2.20
80-90	55.58	N.A.	0.60
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	9554.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1017.69
10-20	2784.82
20-30	2370.05
30-40	1536.71
40-50	800.44
50-60	421.13
60-70	356.29
70-80	211.35
80-90	55.58
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

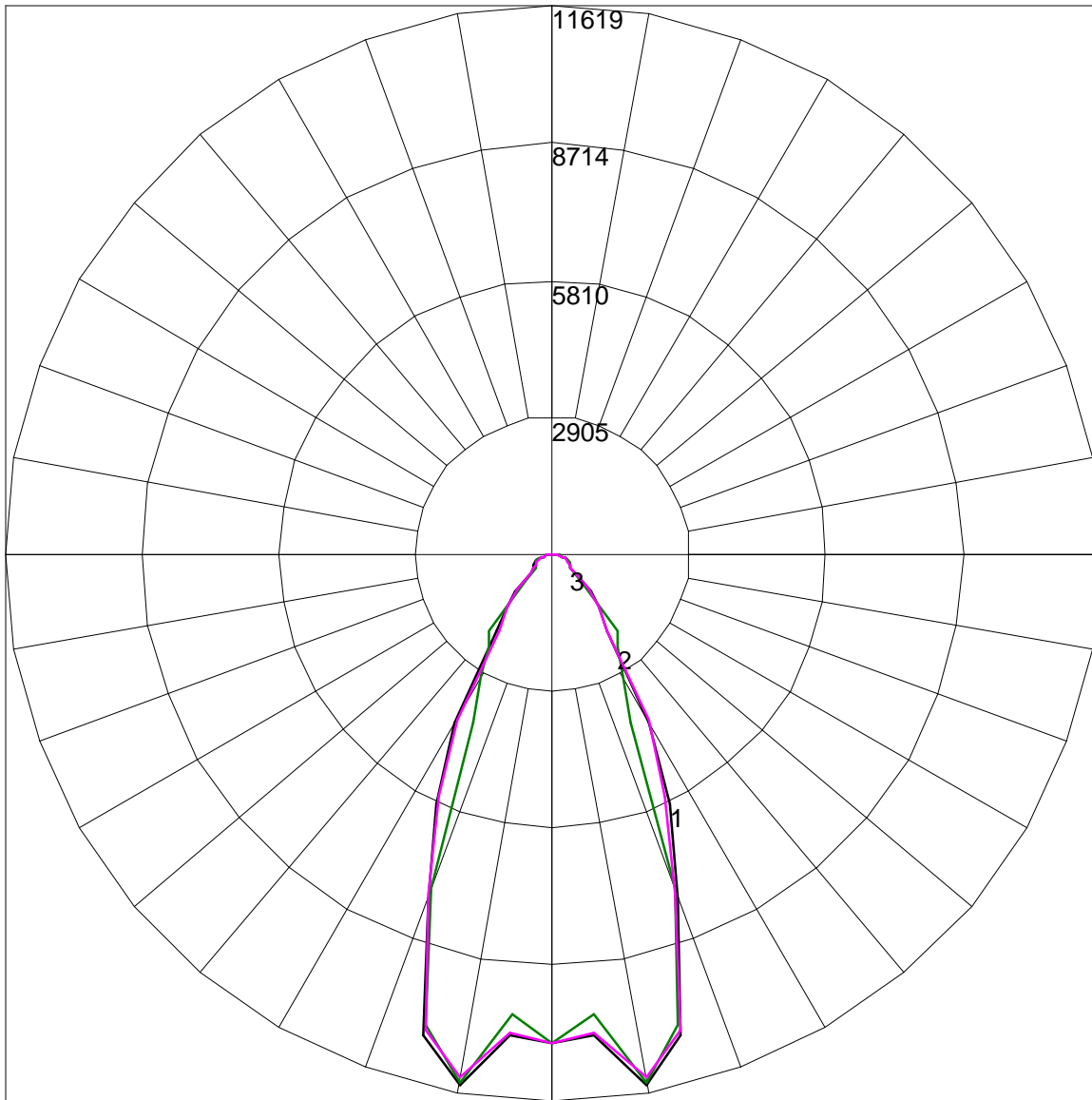
Effective Floor Cavity Reflectance 0.20

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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83
3	100	93	87	83	98	91	86	82	89	84	80	86	82	79	84	81	78	76
4	94	86	80	75	92	85	79	75	83	78	74	81	76	73	79	75	72	70
5	89	80	74	69	88	79	73	69	77	72	68	76	71	67	74	70	67	65
6	85	75	68	64	83	74	68	64	73	67	63	71	66	63	70	66	62	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	60	56	75	66	60	55	65	59	55	64	59	55	63	58	55	53
9	73	63	56	52	72	62	56	52	61	56	52	60	55	52	59	55	52	50
10	69	59	53	49	68	59	53	49	58	53	49	57	52	49	56	52	49	47

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POLAR GRAPH



Maximum Candela = 11619.192 Located At Horizontal Angle = 85, 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)