

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_52 ~ C1320YKSSXT-120LXXK-XWEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_52_M-120L

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

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra 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] 49.3 Degree Beam Angle, 86.6 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	9705
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	70
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.84
Spacing Criterion (90-270)	0.82
Spacing Criterion (Diagonal)	0.76
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	13094	9650	13268
55	6766	6755	7267
65	6938	6979	7243
75	6604	6798	6650
85	3905	4414	4154

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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	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898
5	11394.960	11181.727	11140.260	11377.374	11245.872	11051.064	11365.687	11166.522	11395.770	11193.444
10	10864.218	10920.306	10758.379	10976.874	10885.254	10746.552	10739.964	10753.572	10747.242	10802.238
15	9976.488	10062.816	10025.185	99913.974	9973.638	9738.252	9778.104	9905.935	9914.929	9935.316
20	7678.950	7622.352	7623.834	7789.794	7671.858	7582.992	7689.342	7647.180	7651.668	7557.300
25	6180.618	6049.320	5895.312	5932.284	5594.628	5432.340	5127.828	4869.180	4798.308	4797.162
30	4594.806	4374.204	3996.738	3814.284	3565.482	3559.890	3471.900	3443.610	3338.790	3435.318
35	2346.222	2347.392	2629.218	2730.822	2790.024	2723.892	2650.764	2602.086	2610.978	2613.000
40	1599.456	1492.278	1462.626	1453.890	1501.044	1599.846	1796.442	1972.980	2007.666	2061.246
45	1056.600	1067.220	1032.330	1009.092	1012.008	971.814	895.584	826.596	787.176	778.710
50	543.348	551.274	533.958	512.910	488.280	476.730	485.076	447.750	454.788	467.832
55	442.896	447.678	449.136	434.916	433.404	442.686	419.676	435.210	426.744	442.134
60	419.472	419.652	426.516	412.878	405.690	409.722	402.918	398.292	392.754	383.604
65	334.584	354.666	364.560	341.736	342.852	351.678	348.150	340.062	350.172	336.582
70	258.402	263.250	275.946	269.190	262.512	258.750	267.744	272.076	267.522	277.368
75	195.042	186.168	187.122	187.644	187.176	197.340	202.098	190.482	195.342	200.790
80	116.310	115.116	115.722	117.156	124.200	120.798	119.262	118.206	109.134	120.096
85	38.838	38.736	44.850	44.466	38.934	42.030	38.766	41.766	38.952	43.902
90	1.098	0.000	0.492	0.276	0.792	0.204	1.230	0.270	0.474	0.822

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	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898	11015.898
5	11451.733	11450.412	11332.902	11282.610	11550.222	11502.337	11253.744	11530.218	11675.179
10	10714.170	10844.533	10953.727	10815.637	10795.981	10713.006	10861.254	10724.058	10731.708
15	9907.698	10153.014	10011.564	9963.054	9895.098	9955.938	9923.508	9976.879	10066.506
20	7811.286	7705.182	7600.596	7635.750	7574.232	7773.846	7656.750	7680.348	7532.388
25	4796.820	4847.388	5105.646	5360.322	5604.642	5898.150	6122.778	6083.820	6123.150
30	3414.438	3450.774	3433.386	3517.662	3707.370	3844.764	4062.456	4413.870	4515.876
35	2582.742	2672.742	2593.956	2759.532	2744.478	2621.604	2538.384	2386.038	2397.216
40	2046.810	1942.932	1774.614	1589.178	1468.632	1422.486	1509.504	1450.206	1514.748
45	790.572	839.994	883.512	952.170	1005.180	1024.512	1016.730	1079.202	1070.658
50	455.124	460.086	452.016	438.030	496.476	510.300	524.496	549.582	577.176
55	425.298	437.256	432.912	448.278	429.066	447.858	434.784	452.748	475.626
60	391.002	383.436	392.502	412.716	398.052	407.406	415.260	414.402	413.142
65	338.544	330.006	341.916	341.784	349.632	350.844	356.442	356.106	349.302
70	274.092	270.864	270.114	271.488	277.788	269.304	273.372	264.798	268.020
75	194.946	203.718	185.412	198.618	191.274	196.218	190.470	196.944	196.410
80	118.878	118.602	114.168	114.438	112.338	114.696	112.338	113.754	117.354
85	40.746	39.138	38.988	44.676	40.956	38.958	40.548	45.864	41.316
90	0.246	0.000	0.516	0.132	0.000	0.468	0.690	0.000	0.474

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Zone	Lumens	%Lamp	%Fixt
0-20	3741.62	N.A.	38.60
0-30	6284.91	N.A.	64.80
0-40	7935.01	N.A.	81.80
0-60	9108.2	N.A.	93.80
0-80	9650.82	N.A.	99.40
0-90	9705.07	N.A.	100.00
10-90	8645.8	N.A.	89.10
20-40	4193.39	N.A.	43.20
20-50	4969.12	N.A.	51.20
40-70	1511.76	N.A.	15.60
60-80	542.63	N.A.	5.60
70-80	204.06	N.A.	2.10
80-90	54.25	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	9705.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1059.28
10-20	2682.34
20-30	2543.29
30-40	1650.1
40-50	775.73
50-60	397.46
60-70	338.57
70-80	204.06
80-90	54.25
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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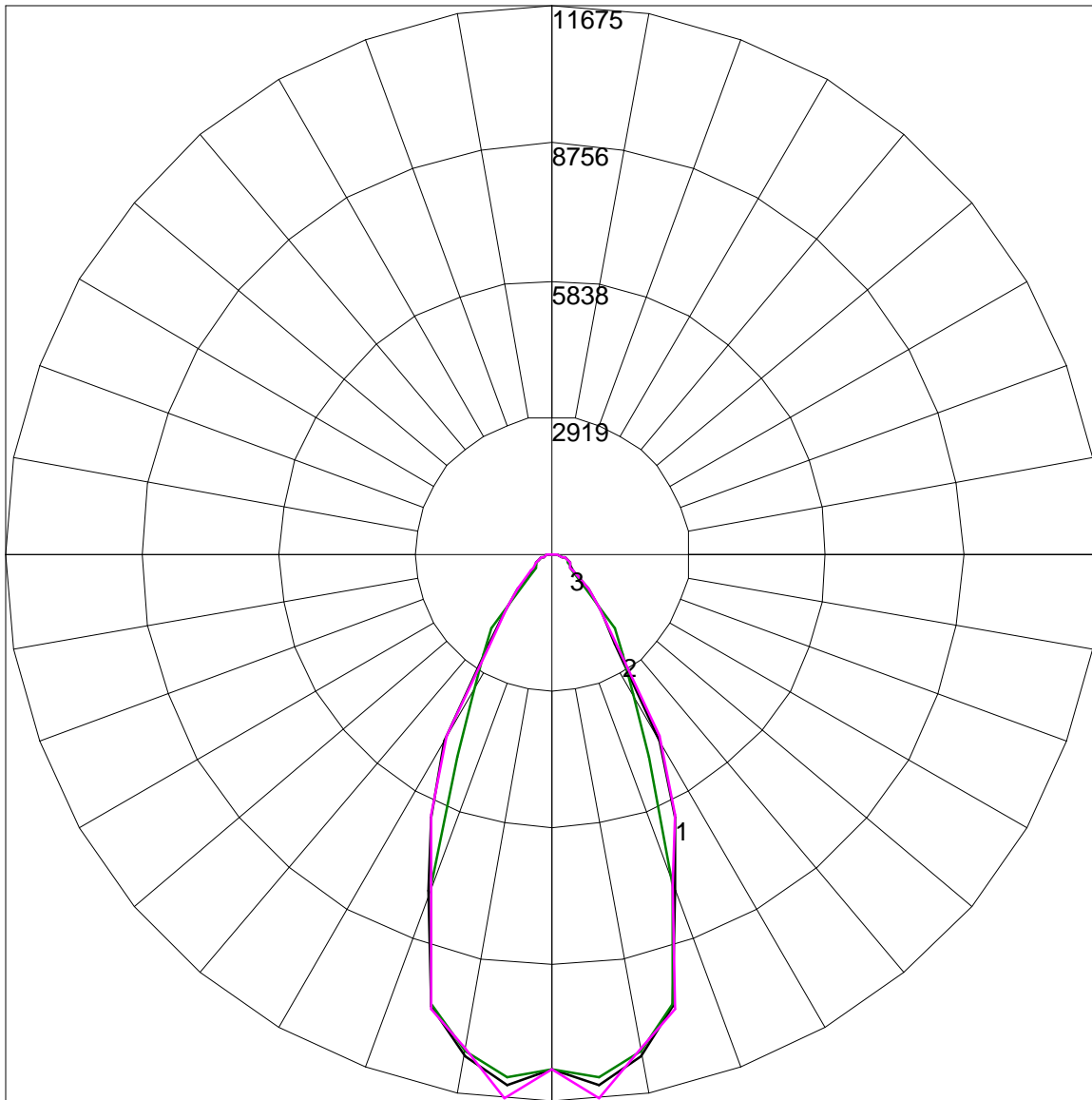
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	90	87	85	83
3	100	93	87	83	98	91	86	82	89	84	81	86	83	79	84	81	78	77
4	95	86	80	75	93	85	79	75	83	78	74	81	76	73	79	75	72	71
5	89	80	74	69	88	79	73	69	77	72	68	76	71	68	74	70	67	65
6	85	75	69	64	83	74	68	64	73	67	63	71	67	63	70	66	62	61
7	80	71	64	60	79	70	64	59	69	63	59	67	62	59	66	62	58	57
8	77	66	60	56	75	66	60	56	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	70	59	53	49	68	59	53	49	58	53	49	57	52	49	57	52	49	47

POLAR GRAPH



Maximum Candela = 11675.179 Located At Horizontal Angle = 90, 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)