

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_42 ~ C1320YKFSXT-120LXXK-NDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_42_M-120L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Narrow 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] 24.6 Degree Beam Angle, 52.2 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	11166
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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	1700	1770	1821
55	933	1066	1089
65	1217	1324	1090
75	1595	1562	1643
85	1194	1114	1024

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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	42921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454
5	36876.5293	6571.5203	7067.2283	6590.1633	6785.7373	7302.9973	7007.6553	6922.0163	6940.5013	7105.998
10	27185.1202	7151.0632	6967.7742	7355.0742	7562.7782	7468.7092	7291.9622	7235.0582	7401.0662	7363.716
15	14639.8631	4420.5571	4711.8631	4599.5851	4451.5591	4514.0661	4415.8531	4676.5111	4325.7031	4579.124
20	6747.810	6551.820	6626.070	6592.446	6784.284	6674.988	6605.994	6584.736	6654.144	6610.938
25	4606.098	4595.592	4513.686	4562.322	4480.668	4530.732	4545.966	4552.428	4514.130	4531.236
30	3172.512	3133.020	3190.146	3262.308	3290.538	3355.644	3470.982	3527.172	3656.646	3597.876
35	1841.658	1948.188	1906.008	1926.960	1920.420	1869.336	1634.796	1551.216	1423.254	1405.764
40	834.558	809.994	748.230	684.918	580.536	557.082	529.866	530.748	545.790	546.132
45	137.154	129.186	145.500	143.400	137.538	139.938	143.784	140.538	141.750	142.794
50	66.156	65.814	62.616	67.116	71.358	64.980	67.350	69.996	75.882	69.516
55	61.050	64.446	65.934	66.120	67.062	66.828	69.822	76.590	66.942	69.768
60	62.724	66.210	63.894	69.060	61.140	64.854	62.844	68.700	66.240	65.376
65	58.692	61.524	61.314	64.194	59.028	64.518	62.640	66.036	62.754	63.870
70	58.092	56.364	56.670	55.548	62.352	56.730	58.794	61.068	61.890	59.604
75	47.112	41.418	47.520	46.098	49.566	49.416	45.432	47.010	48.792	46.140
80	34.416	32.766	34.728	30.414	33.006	31.014	30.972	27.828	30.936	30.006
85	11.880	12.804	12.366	11.580	11.508	12.498	14.946	13.152	12.294	11.082
90	0.546	1.308	0.456	0.276	0.516	0.714	0.000	0.276	0.000	1.014

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	42921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454	2921.2454
5	36514.6053	6876.9323	7194.4933	6724.3703	7025.1253	7082.6293	6508.4473	6521.1903	7292.755
10	27102.2362	7500.7862	7132.5362	7665.3282	7549.1702	7227.3542	7515.5822	7267.2052	7311.647
15	14604.5951	4544.5291	4469.1811	4603.0951	4498.5511	4452.7051	4503.4591	4559.4511	4423.989
20	6544.812	6668.406	6463.068	6582.678	6642.816	6678.480	6585.642	6669.846	6685.884
25	4546.842	4600.398	4630.920	4544.040	4564.764	4470.450	4572.420	4508.766	4648.980
30	3535.134	3539.556	3390.366	3269.514	3263.682	3219.126	3114.996	3092.532	3146.796
35	1460.340	1561.776	1655.220	1757.100	1911.720	1921.692	1887.450	1927.536	1937.616
40	541.842	554.982	543.246	524.676	604.680	692.778	784.770	811.770	810.186
45	144.084	143.820	137.364	140.382	138.210	138.954	146.472	135.696	146.922
50	68.058	68.796	71.652	73.296	71.448	71.154	66.564	64.578	66.558
55	64.806	67.272	68.640	63.030	68.262	68.760	68.376	66.342	71.250
60	68.076	63.948	69.588	71.718	64.410	63.780	62.796	64.080	62.886
65	70.698	61.470	63.222	61.440	60.138	58.764	59.778	57.330	52.548
70	57.678	60.498	62.454	53.694	54.000	59.136	54.030	50.670	51.078
75	44.568	48.486	46.764	48.420	47.508	46.524	43.362	48.156	48.516
80	28.494	27.972	32.136	33.576	30.552	31.062	35.142	34.170	37.056
85	12.054	12.468	12.912	11.490	12.846	13.356	10.674	11.592	10.188
90	0.546	0.000	0.096	0.000	0.234	0.276	0.546	0.552	0.468

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Zone	Lumens	%Lamp	%Fixt
0-20	7477.21	N.A.	67.00
0-30	9647.23	N.A.	86.40
0-40	10795.15	N.A.	96.70
0-60	11041.27	N.A.	98.90
0-80	11150.78	N.A.	99.90
0-90	11166.2	N.A.	100.00
10-90	7915.11	N.A.	70.90
20-40	3317.93	N.A.	29.70
20-50	3503.68	N.A.	31.40
40-70	307.35	N.A.	2.80
60-80	109.52	N.A.	1.00
70-80	48.29	N.A.	0.40
80-90	15.41	N.A.	0.10
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	11166.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	3251.09
10-20	4226.13
20-30	2170.02
30-40	1147.91
40-50	185.75
50-60	60.37
60-70	61.23
70-80	48.29
80-90	15.41
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

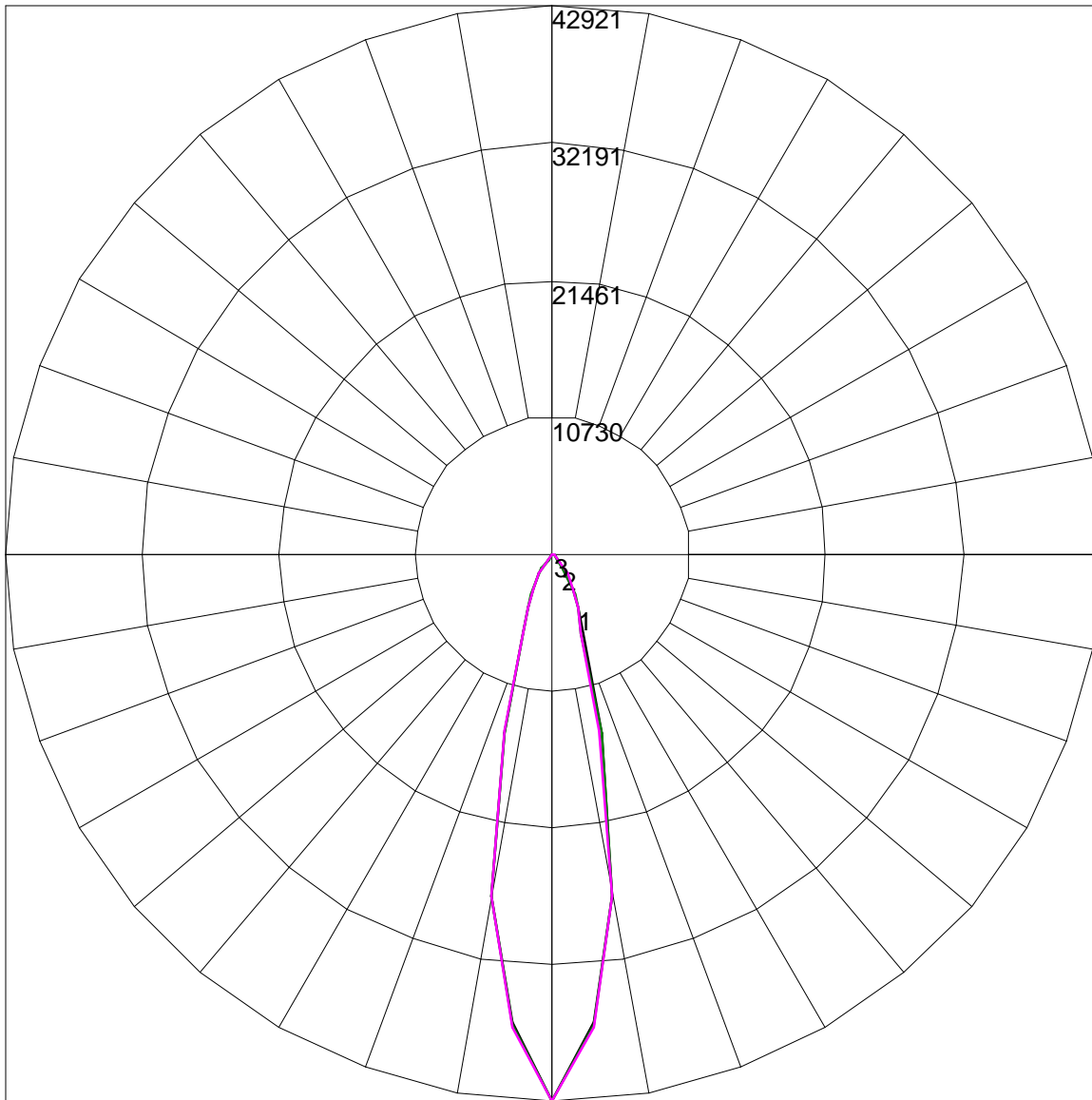
Effective Floor Cavity Reflectance 0.20

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	112	110	108	112	110	108	106	106	104	103	102	101	100	99	98	97	95
2	110	106	103	100	108	104	101	99	101	99	97	98	96	95	96	94	93	91
3	106	101	97	93	104	99	96	93	97	94	91	94	92	90	92	90	88	87
4	102	96	91	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	98	92	87	84	97	91	86	83	89	85	83	88	84	82	86	83	81	80
6	95	88	83	80	94	87	83	80	86	82	79	85	81	78	83	80	78	77
7	92	84	80	76	91	84	79	76	83	79	76	82	78	75	81	77	75	74
8	89	81	77	73	88	81	76	73	80	76	73	79	75	73	78	75	72	71
9	86	78	74	71	85	78	74	71	77	73	70	76	73	70	76	72	70	69
10	83	76	71	68	82	75	71	68	75	71	68	74	70	68	73	70	68	67

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POLAR GRAPH



Maximum Candela = 42921.245 Located At Horizontal Angle = 0, Vertical Angle = 0

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

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

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