

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_37 ~ C1320YKFSXT-120LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_37

[TESTLAB] Photopia 2017.2.0 see: www.ltiopics.com/ies

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium 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] 38.3 Degree Beam Angle, 86.1 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

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	10535
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	66
Total Luminaire Watts	160
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
Spacing Criterion (90-270)	0.58
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	11680	18291	10878
55	3791	3980	3917
65	4275	4349	4135
75	4358	4265	4408
85	2541	2647	2753

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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	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26
5	14779.13	14805.55	14761.69	14697.19	15101.98	14979.92	15158.29	14950.18	15066.96	14988.14
10	12828.19	12823.72	12741.95	12919.81	13006.21	12772.99	12942.95	12951.76	12896.87	12920.45
15	9821.05	9551.20	9618.26	9741.86	9645.60	9499.79	9774.99	9740.01	9640.32	9709.77
20	7799.39	7938.29	7706.03	7693.52	7581.05	7668.14	7662.52	7720.21	7690.74	7741.37
25	6364.22	6352.84	6506.05	6444.91	6334.96	6289.67	6252.48	6362.57	6347.42	6329.88
30	4361.98	4265.51	4328.56	4373.09	4371.16	4497.97	4425.86	4695.87	4719.49	4815.78
35	2922.66	3114.41	3128.34	3131.42	2981.86	2822.04	2653.92	2466.50	2304.60	2353.87
40	2534.30	2459.08	2221.39	2055.42	1920.00	1850.06	1853.94	1804.90	1837.39	1850.80
45	942.47	1035.48	1190.16	1286.14	1450.91	1436.11	1434.15	1459.12	1422.26	1475.93
50	450.56	480.62	476.23	489.88	526.82	590.02	662.83	711.29	763.65	748.62
55	248.15	253.24	255.16	268.87	250.40	262.89	255.97	258.82	262.13	260.48
60	217.92	220.40	214.73	222.32	217.28	221.33	221.39	210.41	223.60	228.31
65	206.18	206.14	183.97	208.41	211.55	206.96	207.83	206.39	214.36	209.74
70	195.72	182.94	189.32	186.07	172.16	173.97	167.24	178.90	177.81	174.02
75	128.72	134.39	136.30	130.66	137.44	136.90	128.93	129.14	127.80	125.97
80	69.80	75.14	73.97	77.22	81.31	83.18	75.77	71.97	75.18	74.17
85	25.27	29.96	28.45	26.03	25.58	24.09	28.18	26.58	28.01	26.33
90	0.55	1.05	0.78	0.82	0.21	0.21	0.37	0.23	1.02	0.91

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	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26	16281.26
5	14890.68	15030.02	14933.95	15053.56	15178.70	14692.65	15006.15	14824.51	15029.30
10	12858.31	12864.10	12623.08	12842.46	12766.08	12880.14	12742.14	12672.98	12929.88
15	9618.52	9674.82	9435.38	9653.96	9532.11	9598.28	9580.76	9657.24	9618.40
20	7601.31	7535.66	7583.51	7766.86	7754.59	7694.49	7735.19	7788.49	7675.12
25	6329.83	6420.12	6289.63	6353.26	6367.75	6390.30	6345.80	6382.45	6341.56
30	4666.05	4572.80	4432.63	4433.37	4367.53	4355.67	4379.69	4342.46	4397.21
35	2428.07	2509.76	2598.76	2843.81	3016.59	3163.16	3141.84	3079.52	3067.34
40	1840.02	1794.69	1934.39	1891.61	1984.32	2048.79	2339.16	2417.94	2606.80
45	1470.19	1454.57	1441.61	1487.76	1404.27	1342.52	1167.64	1038.75	877.76
50	768.89	702.37	679.88	602.92	519.11	472.82	464.01	462.29	460.56
55	265.17	260.01	261.78	274.67	250.48	249.64	254.72	260.48	256.38
60	213.32	221.00	219.93	222.14	220.14	207.98	211.28	213.78	224.76
65	216.66	206.19	202.21	209.16	206.94	213.62	204.77	209.83	199.44
70	180.20	176.73	176.82	177.14	193.82	186.80	187.55	189.60	191.46
75	124.73	129.58	128.73	128.55	130.47	128.40	134.11	135.40	130.19
80	72.73	75.93	74.41	74.56	81.87	79.15	70.66	73.03	79.83
85	26.74	23.67	27.67	25.87	30.27	28.67	28.29	26.02	27.38
90	0.52	0.47	0.78	1.01	1.57	0.93	0.27	0.51	0.41

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Zone	Lumens	%Lamp	%Fixt
0-20	4128.77	N.A.	39.20
0-30	6973.33	N.A.	66.20
0-40	8856.51	N.A.	84.10
0-60	10161.13	N.A.	96.40
0-80	10499.88	N.A.	99.70
0-90	10535.42	N.A.	100.00
10-90	9168.16	N.A.	87.00
20-40	4727.74	N.A.	44.90
20-50	5738.05	N.A.	54.50
40-70	1506.41	N.A.	14.30
60-80	338.75	N.A.	3.20
70-80	136.96	N.A.	1.30
80-90	35.54	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	10535.42	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1367.27
10-20	2761.5
20-30	2844.57
30-40	1883.17
40-50	1010.31
50-60	294.31
60-70	201.79
70-80	136.96
80-90	35.54
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

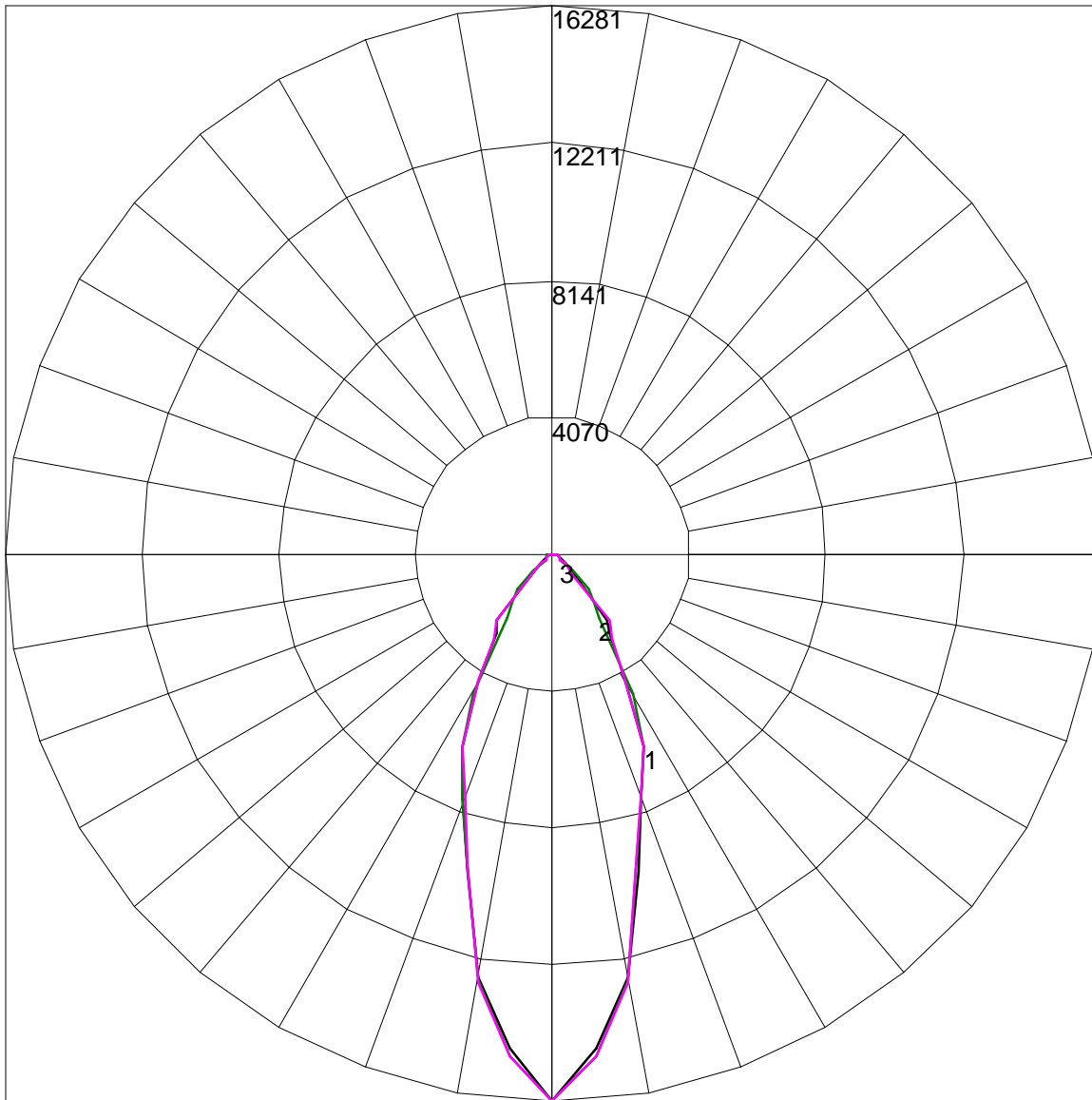
Effective Floor Cavity Reflectance 0.20

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	102	97	94	105	100	96	93	97	93	90	94	91	89	91	89	87	85
3	101	94	89	85	99	93	88	84	90	86	83	88	84	81	85	83	80	78
4	96	88	82	77	94	87	81	77	84	80	76	82	78	75	80	77	74	73
5	91	82	76	71	89	81	75	71	79	74	70	77	73	70	76	72	69	68
6	86	77	71	66	85	76	70	66	74	69	65	73	68	65	72	68	65	63
7	82	72	66	62	80	72	66	61	70	65	61	69	64	61	68	64	60	59
8	78	68	62	58	77	67	62	58	66	61	57	65	61	57	64	60	57	55
9	74	64	58	54	73	64	58	54	63	58	54	62	57	54	61	57	54	52
10	71	61	55	51	70	61	55	51	60	54	51	59	54	51	58	54	51	49

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POLAR GRAPH



Maximum Candela = 16281.26 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)