

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_35 ~ C1320YKSSXT-120LXXK-MDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_35

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 8/01/2017

[UPDATE] 11/07/2017

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

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Medium 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] 37.2 Degree Beam Angle, 74.9 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	9325
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	67
Total Luminaire Watts	138.4
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.60
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.08 ft (Diameter)
Luminous Width (90-270)	1.08 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	20916	12981	17621
55	8399	8233	8784
65	9295	9137	9683
75	8946	8041	7280
85	6220	5449	4977

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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	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77
5	14220.05	14607.72	14098.14	14067.23	14433.17	14355.04	14643.92	14188.05	14077.07	14095.55
10	12244.26	12502.88	12381.58	12274.78	12858.89	12721.00	12707.73	12529.68	11926.93	12830.36
15	9212.12	9165.03	9029.48	9101.34	8964.89	9026.75	9105.95	9409.65	9325.54	9160.34
20	7413.21	7092.96	6866.20	6958.70	6910.03	6908.45	6774.82	7020.23	7065.16	6551.30
25	5583.05	5513.49	5303.98	5391.37	4983.36	4557.29	4395.25	4414.41	4334.20	3911.03
30	3731.16	3821.77	3418.46	3423.55	3145.57	3166.90	2853.44	2995.98	2972.00	2951.60
35	1476.68	1721.42	2059.82	2198.91	2378.01	2263.21	2466.35	2329.05	2236.61	2346.97
40	1355.79	1376.48	1358.45	1386.02	1358.38	1551.33	1782.08	1882.54	1930.07	2128.61
45	1266.89	1168.33	1109.78	1002.84	1138.65	944.27	926.70	826.93	808.52	786.25
50	552.63	543.48	539.82	489.90	480.98	451.78	422.26	447.23	407.43	441.33
55	412.67	433.28	426.18	456.74	429.91	445.70	426.23	415.56	398.45	404.49
60	410.46	421.17	407.78	401.98	380.57	386.64	371.01	358.91	406.41	356.16
65	336.49	322.88	309.75	335.88	336.78	334.90	343.36	339.46	336.31	330.79
70	250.95	245.28	272.91	243.80	262.45	243.25	263.86	257.90	247.05	244.25
75	198.35	171.83	169.77	188.63	205.67	168.98	201.95	164.72	194.74	178.28
80	104.75	114.85	107.43	95.99	100.43	103.62	96.85	103.66	121.69	102.99
85	46.44	36.28	34.72	27.45	36.65	32.31	36.62	33.98	35.21	40.68
90	0.00	0.55	0.21	0.62	0.27	0.78	2.27	0.23	0.23	0.00

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	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77	15825.77
5	14122.88	14613.49	14085.94	15008.31	14398.32	14444.70	14105.72	14470.54	14744.06
10	12654.06	12189.86	12370.67	12462.65	12302.41	12705.96	12510.63	12067.99	12982.12
15	8873.77	9233.47	9621.41	9456.08	9311.39	9162.02	8841.76	9341.15	8942.14
20	6333.26	6669.08	6811.50	6890.09	6826.80	7201.55	6726.07	7225.65	7289.28
25	4143.57	4243.98	4595.47	4823.97	5105.23	5366.45	5543.76	5216.73	5610.04
30	2930.67	2814.85	2774.55	3068.98	2865.84	3219.82	3384.02	3992.69	3971.31
35	2280.72	2348.72	2274.97	2288.80	2355.85	2229.51	1924.25	1784.46	1722.02
40	2040.19	1813.65	1755.22	1562.34	1479.85	1291.48	1366.83	1156.66	1420.06
45	833.99	880.77	958.98	1037.44	1084.45	1101.51	1057.62	1110.00	1067.33
50	423.29	448.92	409.14	454.35	442.97	451.42	510.84	546.36	560.81
55	422.79	410.61	411.19	431.28	416.64	423.52	423.10	455.65	431.58
60	403.51	360.15	400.28	372.97	415.27	370.22	389.59	389.40	397.54
65	326.80	347.02	340.15	344.68	334.56	333.45	348.74	369.50	350.56
70	249.76	258.04	257.37	287.29	256.21	257.47	256.99	267.01	265.70
75	173.08	179.56	170.89	160.89	169.64	181.57	172.67	171.14	161.40
80	113.53	109.87	104.99	96.30	102.73	113.18	126.19	94.82	95.58
85	36.70	34.86	30.60	27.63	31.75	31.51	29.84	38.93	37.16
90	1.78	0.00	0.44	0.00	0.00	0.18	0.21	0.00	0.15

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Zone	Lumens	%Lamp	%Fixt
0-20	3930.12	N.A.	42.10
0-30	6183.28	N.A.	66.30
0-40	7602.16	N.A.	81.50
0-60	8760.39	N.A.	93.90
0-80	9277.35	N.A.	99.50
0-90	9325.01	N.A.	100.00
10-90	8004.54	N.A.	85.80
20-40	3672.04	N.A.	39.40
20-50	4447.41	N.A.	47.70
40-70	1485.43	N.A.	15.90
60-80	516.96	N.A.	5.50
70-80	189.75	N.A.	2.00
80-90	47.66	N.A.	0.50
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	9325.01	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1320.47
10-20	2609.64
20-30	2253.16
30-40	1418.88
40-50	775.36
50-60	382.87
60-70	327.21
70-80	189.75
80-90	47.66
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

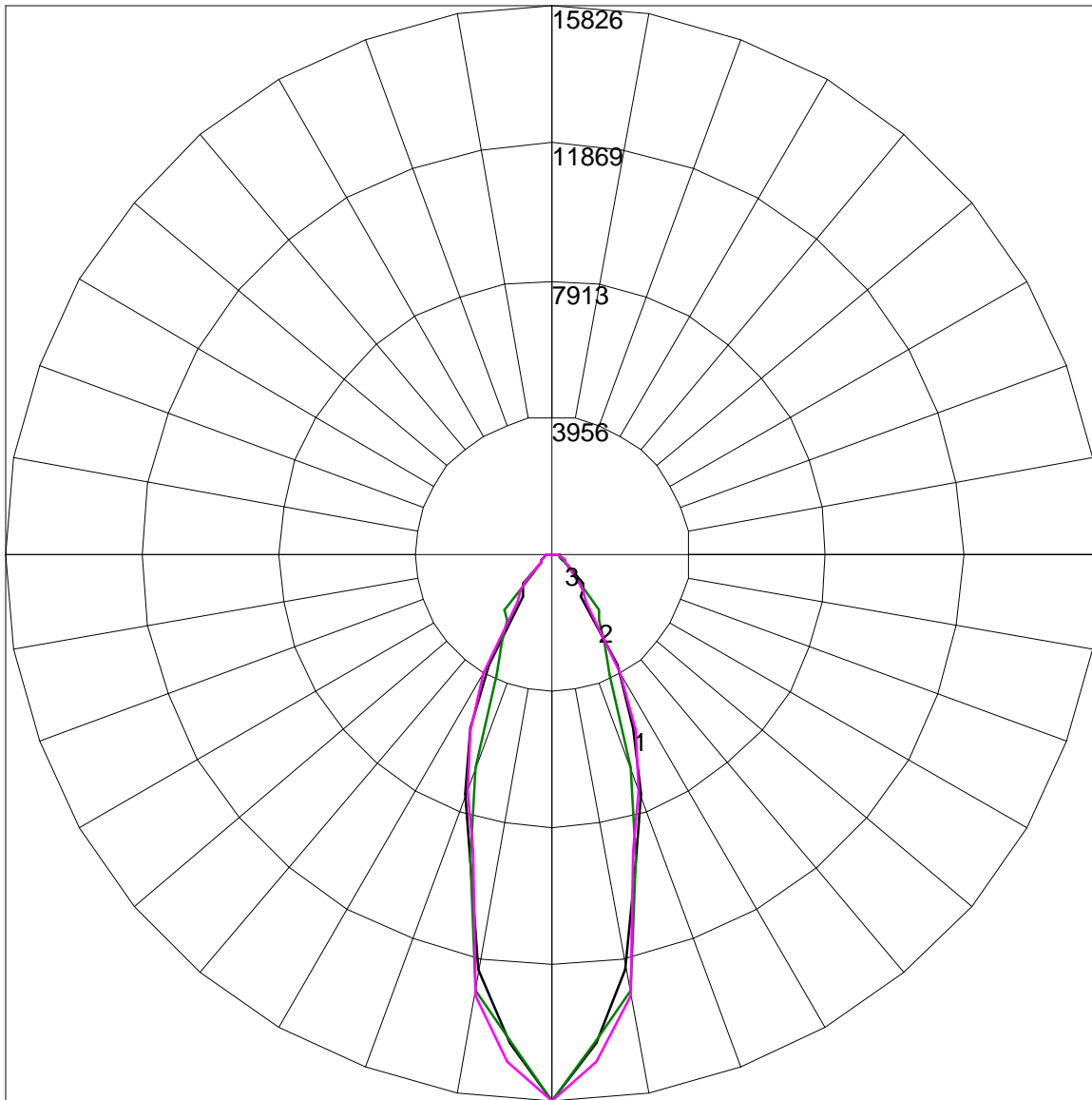
Effective Floor Cavity Reflectance 0.20

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	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	101	93	88	84	98	92	87	83	89	85	82	87	83	80	85	82	79	77
4	95	87	81	76	93	86	80	76	84	79	75	82	77	74	80	76	73	72
5	90	81	75	71	89	80	75	70	79	73	70	77	72	69	75	71	68	67
6	86	76	70	66	84	76	70	65	74	69	65	73	68	64	71	67	64	62
7	82	72	66	61	80	71	65	61	70	65	61	69	64	60	68	63	60	59
8	78	68	62	58	77	67	61	57	66	61	57	65	60	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	55	51	59	54	51	58	54	51	49

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POLAR GRAPH



Maximum Candela = 15825.77 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)