

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_34 ~ C1320YKSSXT-160LXXK-MDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_34_M-160L

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 8/01/2017

[UPDATE] 11/07/2017

[LUMCAT] C1320YKSSXT-160L-xxK-MD-EX-MBI

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

[OTHER] Integral Straight 3" Matte Black (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] 34.4 Degree Beam Angle, 69 Degree Field Angle

[LAMPCAT] LED 4000lm

[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 120L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	9398
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	59
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.56
Spacing Criterion (90-270)	0.54
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	12643	6638	11965
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881
5	18113.730	18253.840	18277.670	18126.670	18672.811	18447.240	18178.631	18189.301	18035.490	18458.279
10	15429.060	15695.000	15796.640	15868.260	15628.020	15701.930	15515.640	15979.380	15911.420	15677.310
15	11406.680	11146.510	11122.350	11448.720	11268.430	11434.790	11460.600	11533.270	11421.910	11509.370
20	8003.636	8092.189	8014.901	8008.127	7915.148	8244.635	8341.720	8201.270	8303.679	8415.364
25	6037.541	6009.469	6253.214	5926.074	5777.657	5422.946	5214.869	5064.104	4826.248	4805.361
30	4125.666	3976.966	3818.542	3497.022	3313.899	3308.215	3219.894	3295.835	3261.630	3336.005
35	1262.382	1458.579	1709.033	2088.275	2328.042	2388.343	2352.085	2414.709	2373.011	2370.047
40	1012.877	1003.742	963.302	1053.125	1150.736	1364.124	1588.290	1760.802	2015.670	2089.699
45	765.784	793.202	776.754	732.413	733.260	708.832	587.909	498.240	405.633	402.054
50	86.179	79.123	63.714	37.015	15.537	2.771	0.231	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881	19843.881
5	18511.750	18529.980	17906.699	18096.430	18317.660	18047.061	18675.100	17755.000	18331.080
10	15790.330	15683.720	15770.190	15747.320	15819.760	15721.830	15702.020	15612.520	15696.500
15	11532.770	11467.790	11451.990	11324.320	11238.500	11433.480	11142.250	11214.490	11008.340
20	8210.302	8079.757	8061.653	8122.878	8221.733	8180.998	8020.315	7970.830	8128.113
25	4919.150	5131.025	5192.519	5549.706	5727.876	6051.565	6229.247	6075.262	6212.709
30	3297.541	3213.517	3214.492	3345.166	3343.639	3573.617	3719.507	4025.477	4034.496
35	2477.601	2408.101	2323.770	2368.213	2287.461	2166.025	1763.997	1495.208	1304.721
40	1999.645	1808.838	1617.568	1292.212	1160.704	976.171	1070.676	1025.579	1033.072
45	419.695	525.619	591.591	696.579	744.397	757.522	757.522	802.735	724.728
50	0.000	0.000	0.000	3.054	11.406	35.937	62.059	81.227	84.139
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	4884.6	N.A.	52.00
0-30	7469.47	N.A.	79.50
0-40	8879.04	N.A.	94.50
0-60	9398.2	N.A.	100.00
0-80	9398.21	N.A.	100.00
0-90	9398.2	N.A.	100.00
10-90	7726.61	N.A.	82.20
20-40	3994.44	N.A.	42.50
20-50	4507.84	N.A.	48.00
40-70	519.16	N.A.	5.50
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
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	9398.2	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1671.6
10-20	3213.00
20-30	2584.87
30-40	1409.57
40-50	513.40
50-60	5.76
60-70	0.00
70-80	0.00
80-90	0.00
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

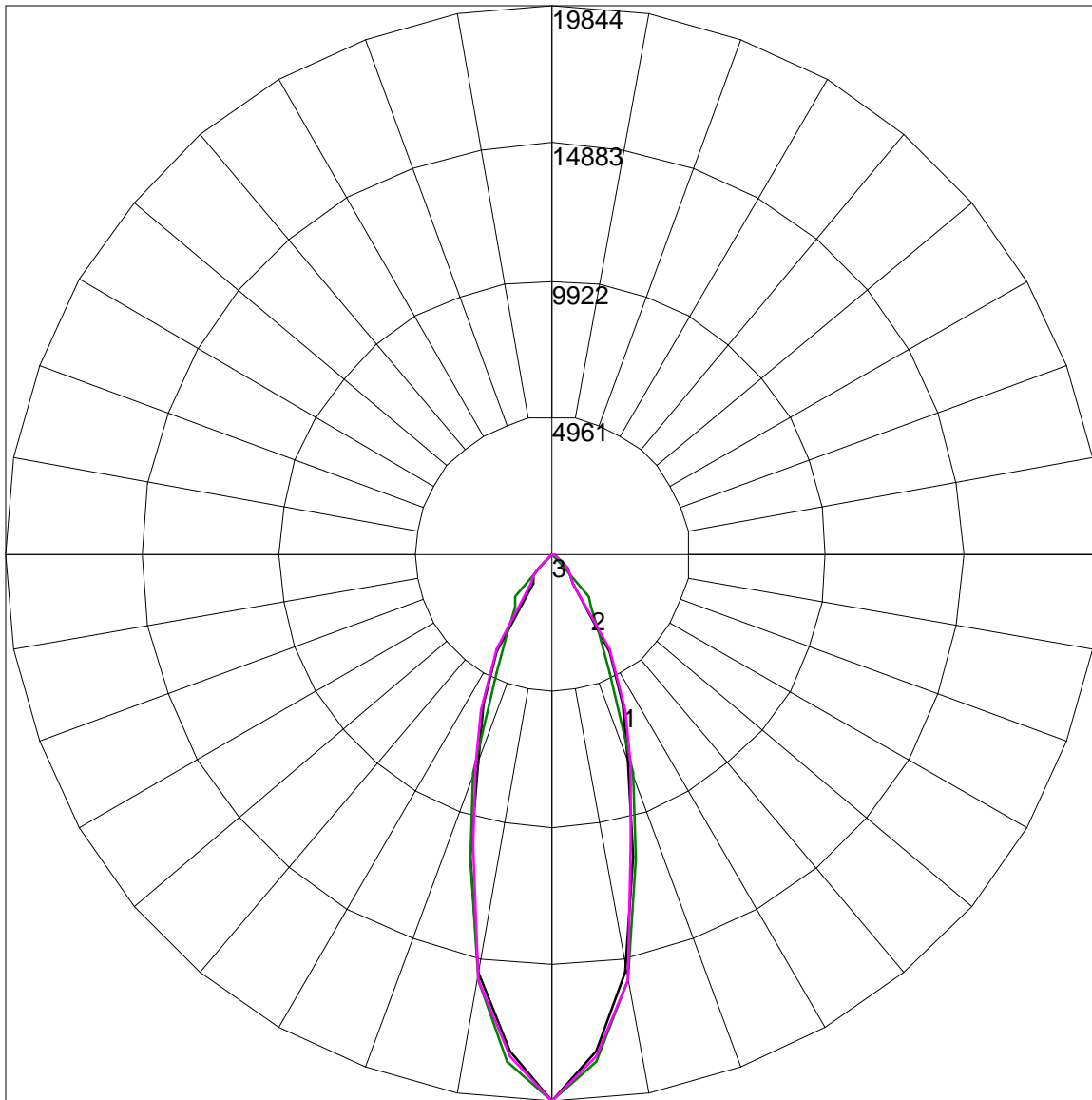
Effective Floor Cavity Reflectance 0.20

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	109	107	112	109	107	106	105	104	102	102	100	99	98	97	96	95
2	109	105	101	98	107	103	100	97	100	97	95	97	95	93	94	92	91	89
3	104	99	94	90	102	97	93	90	95	91	88	92	89	87	90	88	86	84
4	100	93	88	84	98	92	87	84	90	86	83	88	84	82	86	83	81	79
5	95	88	83	79	94	87	82	78	85	81	78	84	80	77	82	79	76	75
6	91	83	78	74	90	83	78	74	81	77	73	80	76	73	79	75	72	71
7	87	79	74	70	86	78	73	70	77	73	69	76	72	69	75	71	69	67
8	84	75	70	66	83	75	70	66	74	69	66	73	69	66	72	68	65	64
9	80	72	67	63	79	71	66	63	70	66	63	70	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	62	60	66	62	59	58

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POLAR GRAPH



Maximum Candela = 19843.881 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)