

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_18 ~ C1320XT-160LXXK-MDEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_18

[TESTLAB] Photopia 2015.1.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/29/2017

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-160L-xxK-MD-EX-1310XT-SG

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Medium Beam

[OTHER] Nom. 12" Diam. Spun Alum. Bezel, Semi-Diffuse Clear anodized finish

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] Photometric data applicable to C1320XT (pendant), C1320XT (wall mounted)

[OTHER] and CYK1320XT (yoke mounted) luminaires

[OTHER] 38 Degree Beam Angle, 98 Degree Field Angle

[LAMP] N/A, 19mm

[LAMPCAT] N/A, Min.83 CRI

[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	14072
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.60
Spacing Criterion (Diagonal)	0.74
Basic Luminous Shape	Circular
Luminous Length (0-180)	1.00 ft (Diameter)
Luminous Width (90-270)	1.00 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_18 ~ C1320XT-160LXXK-MDEX-1310XT-SGXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	59635	62706	61408
55	3898	5719	4234
65	0	17	6
75	24	24	58
85	0	25	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>
<b>0</b>	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510
<b>5</b>	17627.600	17615.100	17544.211	17813.570	17374.570	17572.430	17678.180	17492.500	17413.119	17645.301
<b>10</b>	15317.050	15472.360	15223.790	15448.100	15281.590	15357.080	15310.790	15389.850	15228.450	15351.960
<b>15</b>	11408.890	11471.480	11392.560	11374.220	11300.410	111517.460	11304.860	11408.180	11365.010	11397.800
<b>20</b>	8979.390	9135.440	9128.710	9103.750	9113.010	9096.960	9055.360	9089.470	9178.530	9070.780
<b>25</b>	7583.070	7520.000	7615.920	7642.570	7595.440	7490.650	7635.260	7582.410	7645.880	7559.050
<b>30</b>	5948.910	5948.620	5834.640	5954.910	5860.690	5890.540	5862.560	5943.280	5844.180	5973.590
<b>35</b>	4653.300	4755.400	4688.930	4765.190	4803.460	4740.060	4753.010	4693.220	4714.800	4722.630
<b>40</b>	4197.420	4151.870	4100.850	4136.240	4155.100	4170.580	4162.840	4174.880	4177.270	4147.350
<b>45</b>	3079.710	3235.740	3161.870	3218.260	3188.650	3215.820	3198.320	3181.630	3172.570	3238.310
<b>50</b>	1308.260	1274.150	1348.930	1353.290	1392.400	1400.740	1478.180	1473.660	1521.270	1480.550
<b>55</b>	163.300	172.020	171.570	176.830	177.260	184.040	205.900	212.750	235.490	239.570
<b>60</b>	0.610	0.750	1.270	2.040	2.230	0.690	1.650	1.120	1.090	1.370
<b>65</b>	0.000	0.450	0.260	0.750	0.360	1.060	0.850	0.810	0.340	0.520
<b>70</b>	0.300	0.190	0.630	0.410	0.090	0.470	0.820	0.320	0.780	0.610
<b>75</b>	0.450	0.110	0.410	0.620	0.420	0.560	0.760	0.180	0.120	0.450
<b>80</b>	0.000	0.490	0.260	0.320	0.160	0.480	0.440	0.320	0.320	0.420
<b>85</b>	0.000	0.320	0.160	0.000	0.160	0.160	0.160	0.160	0.270	0.160
<b>90</b>	0.000	0.590	0.000	0.000	0.570	0.000	0.000	0.310	0.000	0.000

**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>
<b>0</b>	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510	19276.510
<b>5</b>	17543.939	17771.881	17918.650	17385.020	17630.250	17391.109	17687.221	17488.439	17801.180
<b>10</b>	15314.310	15343.550	15157.760	15273.470	15338.800	15293.690	15348.720	15084.350	15016.790
<b>15</b>	11335.400	11252.890	11376.710	11466.040	11351.450	11474.840	11428.260	11327.010	11482.720
<b>20</b>	9055.270	9095.920	9132.860	9129.430	9080.450	8994.730	9140.520	9081.210	9223.780
<b>25</b>	7562.090	7513.700	7583.600	7593.740	7582.800	7480.630	7549.020	7575.020	7417.250
<b>30</b>	5898.320	5882.570	5923.760	5886.000	5813.610	5895.930	5846.620	5912.510	5962.790
<b>35</b>	4713.220	4719.040	4746.310	4693.640	4659.520	4776.430	4807.150	4777.700	4695.600
<b>40</b>	4094.770	4153.130	4147.360	4142.890	4170.600	4177.920	4125.130	4148.180	4114.510
<b>45</b>	3222.970	3201.790	3186.370	3194.880	3184.870	3194.770	3196.080	3212.400	3171.310
<b>50</b>	1493.380	1489.080	1430.470	1472.830	1391.580	1339.180	1326.980	1314.140	1313.400
<b>55</b>	223.610	221.670	207.320	184.020	169.190	178.380	165.290	163.940	177.360
<b>60</b>	2.180	1.930	1.420	1.540	0.760	1.780	1.210	1.650	1.230
<b>65</b>	1.050	0.400	0.510	0.810	0.590	0.860	0.790	0.470	0.200
<b>70</b>	0.470	0.260	0.170	0.430	0.130	0.300	0.180	0.260	0.300
<b>75</b>	0.690	0.290	0.160	0.200	0.210	0.280	0.600	0.250	1.100
<b>80</b>	0.000	0.140	0.000	0.000	0.160	0.290	0.230	0.150	0.320
<b>85</b>	0.470	0.160	0.410	0.000	0.000	0.000	0.450	0.000	0.000
<b>90</b>	0.310	0.000	0.000	0.310	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	4888.98	N.A.	34.70
0-30	8340.98	N.A.	59.30
0-40	11388.35	N.A.	80.90
0-60	14070.28	N.A.	100.00
0-80	14071.39	N.A.	100.00
0-90	14071.58	N.A.	100.00
10-90	12454.14	N.A.	88.50
20-40	6499.38	N.A.	46.20
20-50	8789.25	N.A.	62.50
40-70	2682.67	N.A.	19.10
60-80	1.12	N.A.	0.00
70-80	0.37	N.A.	0.00
80-90	0.19	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	14071.58	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1617.44
10-20	3271.54
20-30	3452.00
30-40	3047.37
40-50	2289.88
50-60	392.05
60-70	0.74
70-80	0.37
80-90	0.19
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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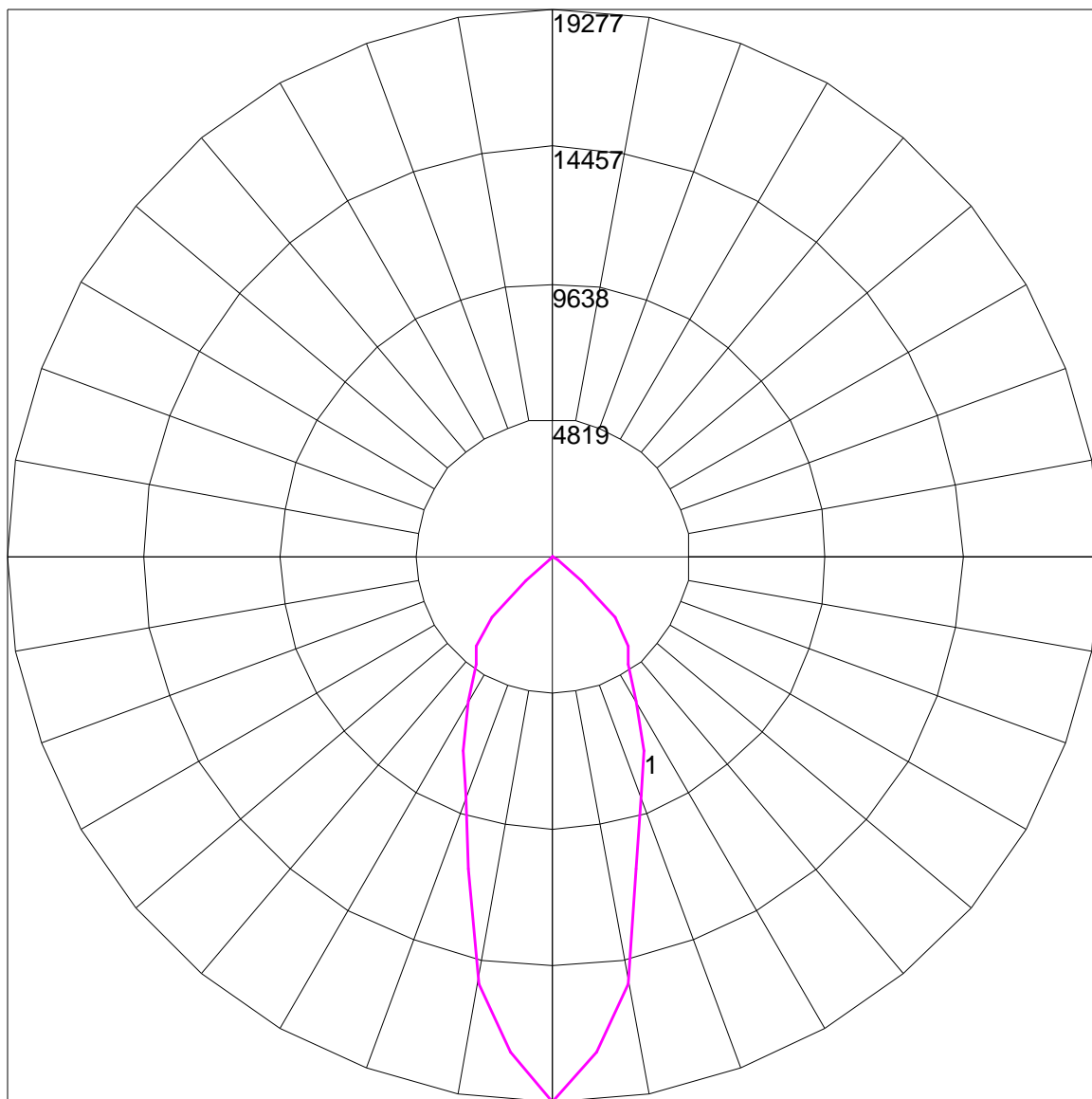
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	105	111	108	106	104	104	102	100	100	99	97	97	96	95	93
2	107	102	98	94	105	100	96	93	97	94	91	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	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	81	75	70	88	80	74	70	78	73	69	77	72	69	75	71	68	67
6	85	76	69	65	84	75	69	64	73	68	64	72	67	64	71	66	63	62
7	81	71	64	60	79	70	64	60	69	63	59	67	63	59	66	62	59	57
8	76	66	60	56	75	66	60	55	65	59	55	63	59	55	62	58	55	53
9	72	62	56	52	71	62	56	52	61	55	51	60	55	51	59	54	51	50
10	69	59	53	48	68	58	52	48	57	52	48	57	52	48	56	51	48	47

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POLAR GRAPH



Maximum Candela = 19276.51 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)