

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_14 ~ C1320XT-200LXXK-MDEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_14

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2017

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-200L-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	18270
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	88
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.60
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	80818	80419	80372
55	5527	7019	5400
65	24	17	41
75	31	11	71
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	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270
5	22881.070	22940.590	22744.480	23024.170	22783.820	22829.670	22583.869	23060.070	22829.510	23077.750
10	19847.090	19824.619	19838.580	19820.070	19865.461	19938.410	19952.490	19932.520	20033.949	19837.939
15	14790.160	14849.730	14818.600	14807.800	14942.760	14783.420	14784.740	14858.990	14819.790	14892.620
20	11892.270	11783.350	11787.920	12050.240	11663.470	11831.710	11852.920	11751.770	11648.910	11737.600
25	9887.350	9772.460	9751.480	9863.880	9806.750	9939.240	9791.930	9923.180	9881.580	9827.160
30	7718.450	7707.060	7613.990	7683.690	7580.320	7742.330	7689.750	7549.260	7599.210	7693.080
35	6124.880	6178.880	6122.620	6188.160	6185.430	6167.050	6129.530	6096.040	6051.770	6157.370
40	5465.740	5393.410	5431.790	5356.630	5324.540	5380.060	5432.850	5414.490	5433.870	5373.400
45	4173.680	4131.820	4150.050	4171.310	4128.280	4153.960	4157.200	4087.290	4139.820	4153.070
50	1622.790	1674.080	1741.430	1745.670	1803.420	1825.660	1859.900	1936.190	1861.480	1919.690
55	231.550	211.310	221.330	232.550	228.990	236.380	263.920	278.920	304.050	294.020
60	1.610	1.920	2.000	1.590	1.780	1.400	2.530	1.100	3.220	2.220
65	0.750	0.290	0.680	1.040	0.880	0.500	0.910	0.720	0.900	0.510
70	0.440	0.300	0.310	1.050	0.360	0.600	0.880	0.350	0.650	0.340
75	0.580	0.370	0.430	0.360	0.190	0.800	0.120	0.400	0.190	0.210
80	0.000	0.180	0.350	0.000	0.350	0.030	0.340	0.360	0.180	0.990
85	0.000	0.000	0.410	0.590	0.000	0.200	0.290	0.200	0.410	0.000
90	0.000	0.000	0.000	0.000	0.000	0.000	0.410	0.000	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>
0	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270	24758.270
5	22908.590	22950.520	22984.811	23035.990	22623.551	22822.500	22984.270	23076.090	23128.400
10	19763.100	19745.029	19885.230	19890.430	19899.881	19763.340	19972.301	19924.670	20030.590
15	14610.070	14851.780	14751.280	15017.920	14828.870	14975.260	14912.250	14910.310	14769.680
20	11637.780	11860.730	11825.670	11867.930	11809.910	11895.570	11933.270	11762.970	11746.640
25	9763.380	9926.140	9804.730	9785.610	9806.630	9894.750	9805.110	9997.780	9669.540
30	7785.160	7721.440	7697.170	7649.050	7619.150	7592.420	7460.800	7637.480	7616.480
35	6139.650	6060.740	6060.060	6166.050	6170.370	6093.320	6157.680	6162.720	6114.650
40	5401.220	5382.440	5331.580	5371.650	5332.270	5343.400	5394.800	5383.010	5455.850
45	4137.890	4142.620	4188.450	4153.560	4220.100	4205.800	4159.450	4171.480	4150.640
50	1887.570	1944.960	1942.210	1848.410	1759.920	1718.920	1740.430	1713.770	1666.590
55	290.870	278.580	263.700	247.690	229.760	214.400	217.030	211.490	226.230
60	1.690	3.040	1.570	1.370	1.010	1.680	1.590	1.240	3.410
65	0.260	0.810	0.950	0.260	0.860	0.900	0.450	0.410	1.260
70	0.290	0.650	0.360	0.860	0.850	0.550	0.630	0.550	1.130
75	0.330	0.210	0.000	0.620	0.000	0.000	0.420	0.080	1.350
80	0.550	0.230	0.590	0.210	0.410	0.120	0.210	0.380	0.410
85	0.180	0.350	0.370	0.200	0.150	0.000	0.000	0.000	0.000
90	0.360	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	6356.45	N.A.	34.80
0-30	10840.09	N.A.	59.30
0-40	14791.68	N.A.	81.00
0-60	18268.76	N.A.	100.00
0-80	18270.1	N.A.	100.00
0-90	18270.3	N.A.	100.00
10-90	16170.04	N.A.	88.50
20-40	8435.23	N.A.	46.20
20-50	11407.47	N.A.	62.40
40-70	3478.02	N.A.	19.00
60-80	1.34	N.A.	0.00
70-80	0.40	N.A.	0.00
80-90	0.20	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	18270.3	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	2100.26
10-20	4256.19
20-30	4483.64
30-40	3951.59
40-50	2972.24
50-60	504.84
60-70	0.94
70-80	0.40
80-90	0.20
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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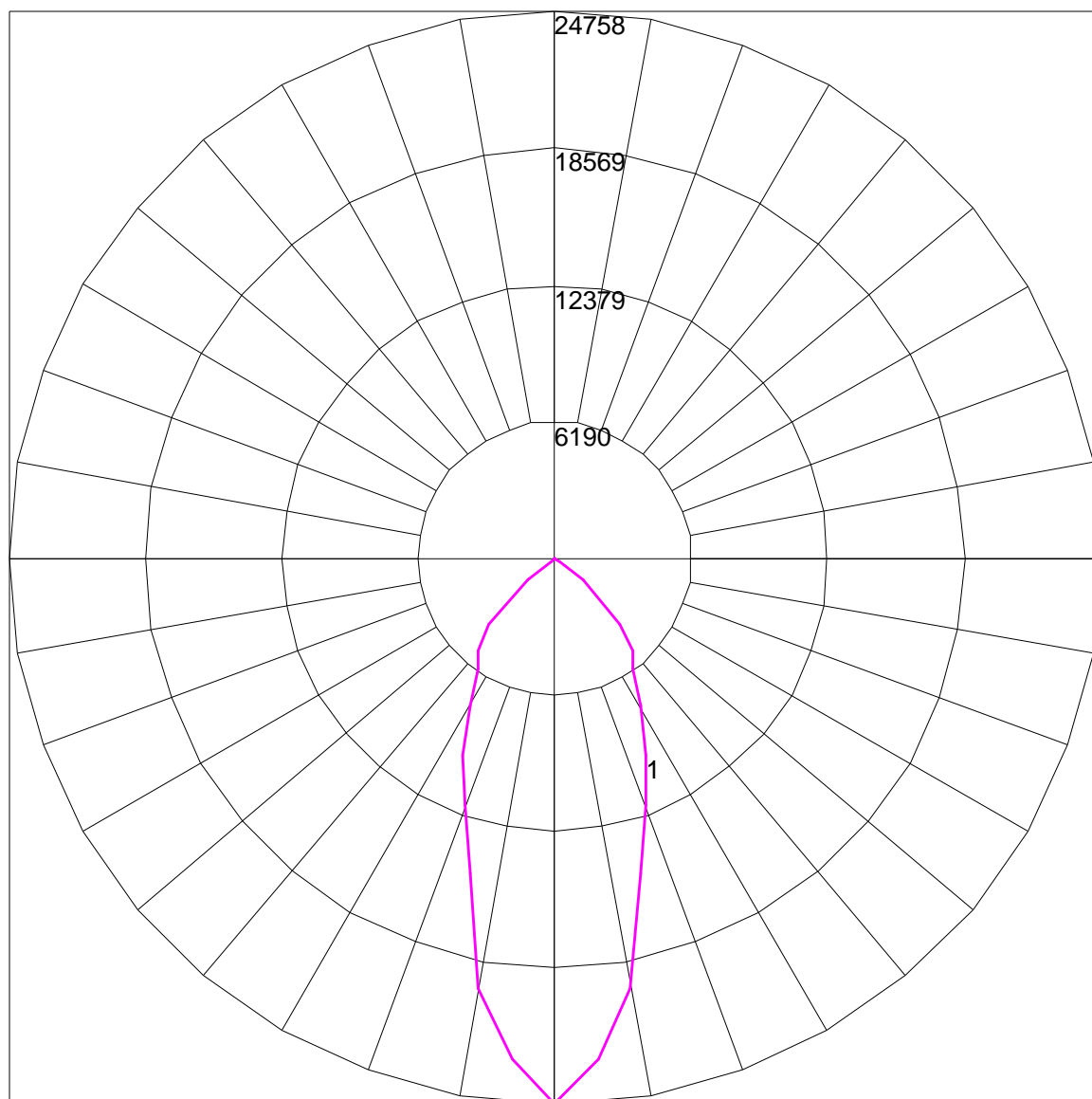
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	73	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 = 24758.27 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)