

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_13 ~ C1320XT-200LXXK-NDEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_13

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 4/29/2016

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-200L-xxK-ND-EX-1310XT-SG

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Narrow 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] 25 Degree Beam Angle, 56 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	18337
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	89
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.42
Spacing Criterion (90-270)	0.42
Spacing Criterion (Diagonal)	0.42
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	5676	5374	4922
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	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289
5	59285.879	59700.898	59340.031	58910.219	58239.828	58633.102	58422.109	58374.488	58457.109	59606.859
10	43495.230	43805.590	43599.398	43735.059	43584.070	44003.148	43490.180	43921.090	43548.578	44083.602
15	22772.410	23123.891	23298.211	23288.650	22972.311	23408.131	23119.869	23134.590	23149.789	23069.449
20	10382.880	10618.780	10438.220	10463.530	10517.460	10541.030	10506.220	10315.930	10469.590	10551.600
25	7175.290	7266.560	7244.280	7217.650	7149.890	7291.270	7209.160	7353.420	7139.320	7152.420
30	6062.510	6011.240	5940.350	5922.310	5979.720	5965.820	5900.800	5951.190	5933.380	5930.340
35	4114.840	4074.520	4141.760	4090.090	4064.250	4058.370	4093.660	4057.740	4048.120	4115.600
40	1729.370	1705.490	1732.160	1697.170	1704.130	1753.200	1697.810	1723.660	1713.820	1727.720
45	293.130	283.730	309.580	280.510	276.170	277.710	287.880	280.190	266.020	277.550
50	2.370	4.740	4.740	6.220	5.030	6.220	5.030	6.220	5.330	5.330
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	0.140
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. 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	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289	69112.289
5	58938.141	59280.699	58539.969	59328.012	59371.422	58427.121	58989.281	59367.738	58540.191
10	44042.078	43988.711	43705.719	43694.711	43770.469	43812.461	43657.551	43636.238	43979.531
15	23111.730	23049.369	22986.109	23038.539	23054.100	22930.141	23052.039	23134.301	22960.971
20	10476.740	10465.310	10519.820	10568.970	10549.140	10489.340	10535.450	10513.030	10537.710
25	7233.070	7328.840	7235.840	7137.650	7274.920	7198.670	7191.970	7135.780	7383.530
30	5972.030	5968.610	5918.230	6003.690	5885.850	5964.290	5867.730	5908.270	5910.300
35	3997.000	4050.780	4055.750	4072.010	4097.450	4048.270	4053.940	4048.090	4143.670
40	1742.370	1758.580	1702.470	1714.810	1728.660	1752.670	1673.620	1727.680	1677.390
45	305.200	283.600	281.960	267.220	275.990	294.050	262.890	289.570	254.210
50	5.030	4.140	4.740	4.440	4.740	2.960	6.510	4.440	5.330
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	11940.34	N.A.	65.10
0-30	15465.92	N.A.	84.30
0-40	17907.36	N.A.	97.70
0-60	18337.06	N.A.	100.00
0-80	18337.07	N.A.	100.00
0-90	18337.06	N.A.	100.00
10-90	13132.28	N.A.	71.60
20-40	5967.01	N.A.	32.50
20-50	6395.63	N.A.	34.90
40-70	429.70	N.A.	2.30
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	18337.06	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	5204.79
10-20	6735.56
20-30	3525.58
30-40	2441.43
40-50	428.62
50-60	1.09
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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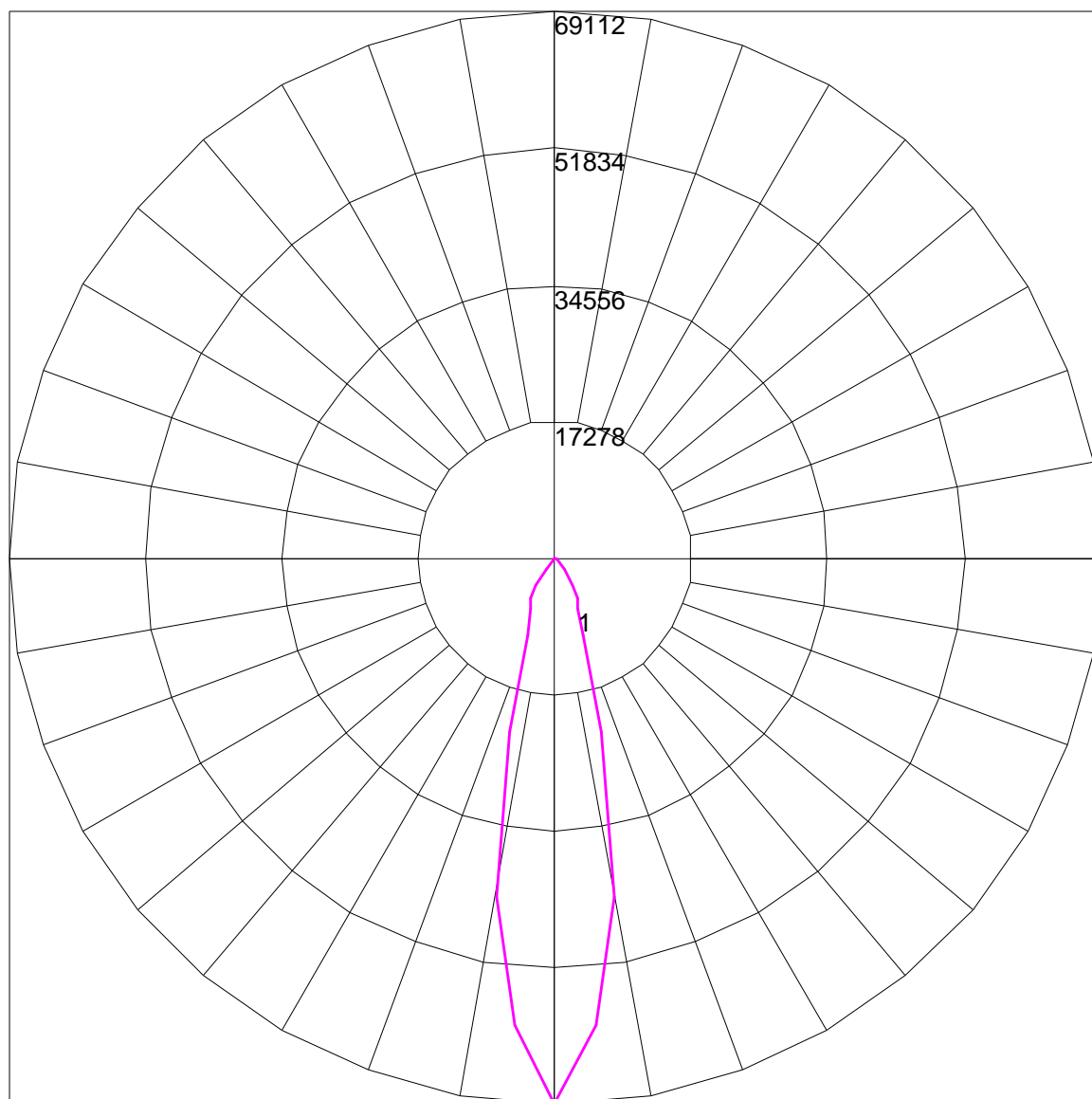
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	115	112	110	108	112	110	108	107	106	105	103	102	101	100	99	98	97	96
2	110	106	103	100	108	105	102	99	101	99	97	98	97	95	96	94	93	91
3	106	101	97	94	104	99	96	93	97	94	91	95	92	90	92	90	89	87
4	102	96	92	88	100	95	91	88	93	89	87	91	88	86	89	87	85	83
5	98	92	87	84	97	91	86	83	89	85	82	88	84	82	86	83	81	80
6	95	88	83	80	94	87	83	79	86	82	79	84	81	78	83	80	78	77
7	92	84	79	76	90	84	79	76	82	78	75	81	78	75	80	77	75	74
8	88	81	76	73	87	80	76	73	79	75	72	78	75	72	78	74	72	71
9	86	78	73	70	85	77	73	70	77	73	70	76	72	70	75	72	69	68
10	83	75	71	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

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POLAR GRAPH



Maximum Candela = 69112.289 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180)