

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_15 ~ C1320XT-200LXXK-WDEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_15

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/29/2016

[UPDATE] 9/28/2017

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

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Wide 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] 55 Degree Beam Angle, 100 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	18205
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)	0.90
Spacing Criterion (90-270)	0.90
Spacing Criterion (Diagonal)	0.94
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	68495	68616	69081
55	5190	7128	4925
65	12	14	19
75	0	10	40
85	64	35	57

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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	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330
5	16055.880	16161.310	16395.730	15879.290	16141.530	16391.279	16440.539	16134.850	16192.030	15812.930
10	17808.631	17876.570	18106.939	18060.520	17834.721	17787.711	17826.910	17876.600	17909.010	17767.270
15	16471.910	16643.471	16580.811	16598.721	16237.670	16520.240	16416.520	16542.020	16384.980	16579.410
20	13718.110	13729.010	13538.180	13711.360	13767.130	13509.330	13565.580	13620.640	13397.880	13676.740
25	10048.160	10372.080	10424.310	10350.180	10228.190	10234.230	10270.580	10228.440	10272.920	10190.520
30	8156.790	8122.290	7945.460	7919.020	8070.130	7982.760	7905.920	7947.070	8094.960	7948.710
35	6657.530	6622.270	6590.220	6586.610	6552.010	6585.600	6526.330	6554.100	6585.080	6579.870
40	5374.430	5384.120	5326.800	5367.150	5362.310	5316.690	5404.880	5290.780	5393.300	5356.920
45	3537.280	3549.060	3538.880	3545.250	3583.400	3533.580	3572.230	3542.360	3545.260	3543.550
50	1438.170	1454.620	1457.240	1514.780	1540.020	1587.690	1606.050	1590.060	1579.960	1589.960
55	217.420	204.880	202.390	223.040	213.270	226.030	249.600	272.050	277.280	298.590
60	3.080	1.520	1.660	1.610	1.860	3.140	2.620	1.240	1.760	1.360
65	0.370	0.430	0.990	0.430	0.230	0.400	0.240	0.630	0.040	0.440
70	0.190	0.430	0.580	0.060	0.060	0.120	0.240	0.220	0.360	0.000
75	0.000	0.210	0.320	0.170	0.390	0.010	0.500	0.180	0.180	0.190
80	0.000	0.300	0.270	0.180	0.440	0.150	0.210	0.460	0.010	0.180
85	0.410	0.000	0.150	0.000	0.200	0.560	0.410	0.000	0.830	0.220
90	0.000	0.000	0.000	0.000	0.410	0.000	0.410	0.540	0.000	0.360

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	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330	16556.330
5	16234.450	16122.730	16381.520	16041.720	16199.450	16589.971	16332.910	16244.660	16157.280
10	17456.740	17966.900	17932.170	18019.230	17759.150	17581.971	17951.939	17711.311	17773.900
15	16464.869	16567.770	16245.250	16304.190	16371.350	16549.949	16509.051	16368.250	16532.561
20	13718.380	13676.960	13548.670	13542.220	13590.550	13714.210	13615.500	13579.410	13713.410
25	10319.450	10245.750	10290.050	10231.140	10271.790	10284.540	10325.490	10267.880	10117.200
30	7947.050	7974.650	8006.110	7977.940	7891.760	8028.940	7998.770	7958.070	8002.780
35	6665.510	6654.970	6629.430	6538.430	6598.170	6562.250	6627.820	6544.400	6705.080
40	5350.130	5351.280	5387.520	5306.320	5373.740	5390.180	5421.170	5362.000	5218.050
45	3526.430	3559.800	3562.520	3511.840	3540.330	3582.450	3542.230	3550.660	3567.530
50	1630.970	1658.440	1594.050	1584.130	1541.790	1487.500	1465.620	1473.760	1453.880
55	281.260	266.180	248.230	226.310	216.350	209.350	204.140	213.570	206.320
60	3.140	1.260	2.750	1.690	1.320	1.300	1.190	1.100	3.370
65	0.600	0.500	0.540	0.930	0.720	0.200	0.650	0.470	0.590
70	0.430	0.290	0.270	0.000	0.810	0.600	0.380	0.250	0.220
75	0.360	0.560	0.000	0.810	0.310	0.520	0.420	0.360	0.760
80	0.000	0.160	0.000	0.280	0.890	0.000	0.310	0.000	0.000
85	0.180	0.000	0.180	0.390	0.410	0.200	0.000	0.000	0.360
90	0.000	0.000	0.000	0.410	0.000	0.410	0.000	0.360	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	6125.13	N.A.	33.60
0-30	10942.15	N.A.	60.10
0-40	15083.52	N.A.	82.90
0-60	18204.00	N.A.	100.00
0-80	18205.08	N.A.	100.00
0-90	18205.31	N.A.	100.00
10-90	16595.27	N.A.	91.20
20-40	8958.39	N.A.	49.20
20-50	11636.81	N.A.	63.90
40-70	3121.25	N.A.	17.10
60-80	1.08	N.A.	0.00
70-80	0.31	N.A.	0.00
80-90	0.23	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	18205.31	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1610.04
10-20	4515.09
20-30	4817.02
30-40	4141.37
40-50	2678.42
50-60	442.05
60-70	0.78
70-80	0.31
80-90	0.23
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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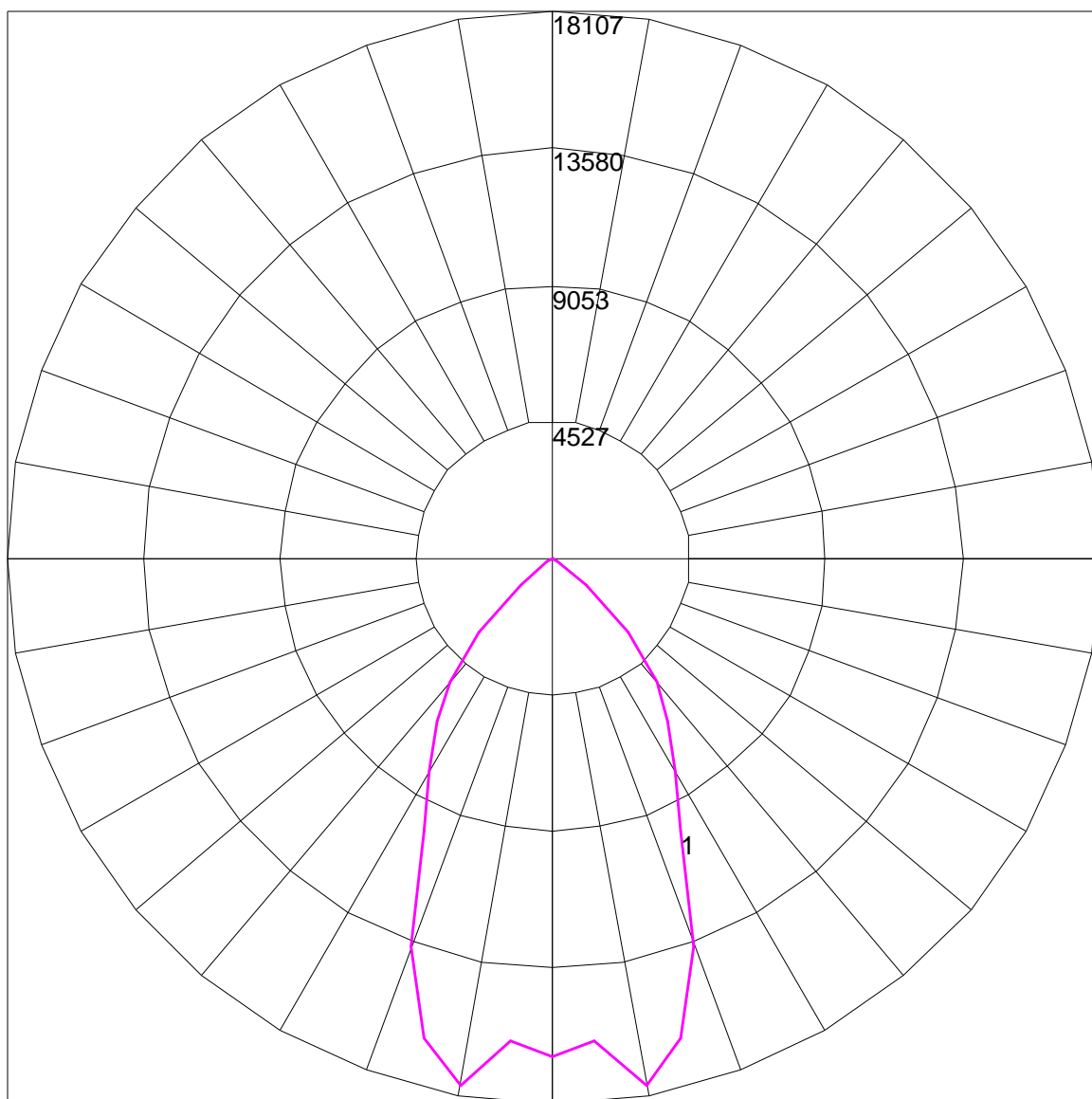
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	82	80	78
4	95	87	81	77	94	86	81	76	84	79	75	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	66
6	85	75	69	64	83	75	69	64	73	68	64	72	67	63	70	66	63	61
7	80	70	64	59	79	70	64	59	68	63	59	67	62	59	66	62	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	58	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	51	49
10	68	58	52	48	67	58	52	48	57	51	48	56	51	47	55	51	47	46

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POLAR GRAPH



Maximum Candela = 18106.939 Located At Horizontal Angle = 10, Vertical Angle = 10
1 - Vertical Plane Through Horizontal Angles (0 - 180)