

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_16 ~ C1320XT-200LXXK-XWEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_16

[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-XW-EX-1310XT-SG

[LUMINAIRE] Nom. 13" Diam. x 20" H Cylinder Downlight Pendant, Xtra 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] 58 Degree Beam Angle, 99 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	18293
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)	0.88
Spacing Criterion (90-270)	0.88
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	64739	65400	64084
55	5127	6731	4549
65	18	0	3
75	11	13	0
85	0	31	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	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500
5	18144.830	17816.439	17888.279	17919.689	17863.270	18086.801	17516.279	18072.721	18067.070	18049.320
10	16969.551	16786.039	16827.711	17155.439	17053.820	17109.350	16894.689	16876.160	17031.641	16954.100
15	15311.420	15612.750	15600.820	15554.960	15562.120	15500.140	15510.110	15411.160	15499.330	15538.450
20	12955.470	12837.690	12993.880	12919.360	12889.480	13017.780	12913.100	12841.470	12938.170	12841.600
25	10734.090	10575.390	10716.990	10639.010	10766.050	10763.060	10671.410	10797.110	10660.030	10643.670
30	8640.130	8624.280	8636.560	8678.890	8679.290	8595.090	8614.990	8615.080	8533.400	8673.570
35	7174.600	7156.220	7179.030	7110.780	7144.800	7120.690	7074.180	7198.960	7086.860	7133.320
40	5443.410	5404.700	5326.140	5410.740	5454.120	5367.450	5399.470	5441.800	5444.380	5368.520
45	3343.300	3338.700	3363.710	3307.500	3350.820	3380.190	3341.990	3352.460	3385.820	3377.440
50	1374.980	1335.620	1385.690	1396.000	1434.130	1455.430	1452.200	1457.450	1494.980	1501.420
55	214.780	200.760	207.310	206.880	203.840	216.950	253.910	260.450	261.470	281.950
60	0.900	0.740	0.800	1.480	1.710	1.050	1.740	1.780	1.350	0.490
65	0.560	0.470	0.040	0.000	0.560	0.180	0.390	0.340	0.530	0.000
70	0.090	0.000	0.100	0.410	0.460	0.290	0.330	0.190	0.190	0.000
75	0.210	0.000	0.290	0.210	0.370	0.360	0.440	0.190	0.520	0.240
80	0.210	0.000	0.350	0.170	0.010	0.320	0.210	0.000	0.180	0.360
85	0.000	0.000	0.000	0.000	0.200	0.000	0.000	0.000	0.180	0.200
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	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500	17666.500
5	17844.869	18143.320	17952.609	17977.850	17925.689	18107.490	17936.721	177710.570	18102.619
10	16930.670	17055.930	17212.449	16943.381	16908.080	16970.801	17071.680	16944.520	17071.420
15	15654.890	15616.410	15634.150	15626.970	15496.370	15818.080	15435.850	15499.210	15540.690
20	12913.930	12769.850	12879.290	12827.430	13001.250	12966.230	12860.040	12987.040	13099.960
25	10636.530	10651.290	10689.360	10556.060	10637.170	10734.530	10747.300	10693.040	10722.710
30	8723.100	8665.100	8725.610	8632.390	8680.310	8721.360	8528.030	8610.920	8711.500
35	7132.460	7211.890	7102.290	7100.050	7183.830	7183.430	7081.530	7137.150	7112.260
40	5437.840	5437.070	5478.790	5374.650	5420.460	5458.700	5497.650	5371.740	5355.220
45	3460.820	3350.700	3332.090	3344.110	3336.840	3329.410	3358.430	3359.560	3309.480
50	1415.280	1483.390	1485.930	1396.150	1437.120	1394.850	1362.240	1349.030	1372.670
55	282.140	252.410	226.530	212.440	209.710	195.390	201.770	201.160	190.540
60	0.750	1.210	2.160	0.910	0.910	1.880	0.910	1.250	1.480
65	0.410	1.020	0.180	0.020	0.000	0.210	0.020	0.140	0.090
70	0.000	0.410	0.000	0.570	0.200	0.410	0.040	0.000	0.000
75	0.000	0.400	0.140	0.000	0.230	0.380	0.310	0.490	0.000
80	0.500	0.150	0.160	0.000	0.000	0.000	0.310	0.000	0.000
85	0.200	0.590	0.000	0.000	0.000	0.200	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	5951.79	N.A.	32.50
0-30	10872.68	N.A.	59.40
0-40	15291.41	N.A.	83.60
0-60	18292.34	N.A.	100.00
0-80	18293.06	N.A.	100.00
0-90	18293.15	N.A.	100.00
10-90	16617.86	N.A.	90.80
20-40	9339.62	N.A.	51.10
20-50	11929.28	N.A.	65.20
40-70	3001.42	N.A.	16.40
60-80	0.72	N.A.	0.00
70-80	0.23	N.A.	0.00
80-90	0.09	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	18293.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1675.3
10-20	4276.49
20-30	4920.9
30-40	4418.73
40-50	2589.66
50-60	411.28
60-70	0.49
70-80	0.23
80-90	0.09
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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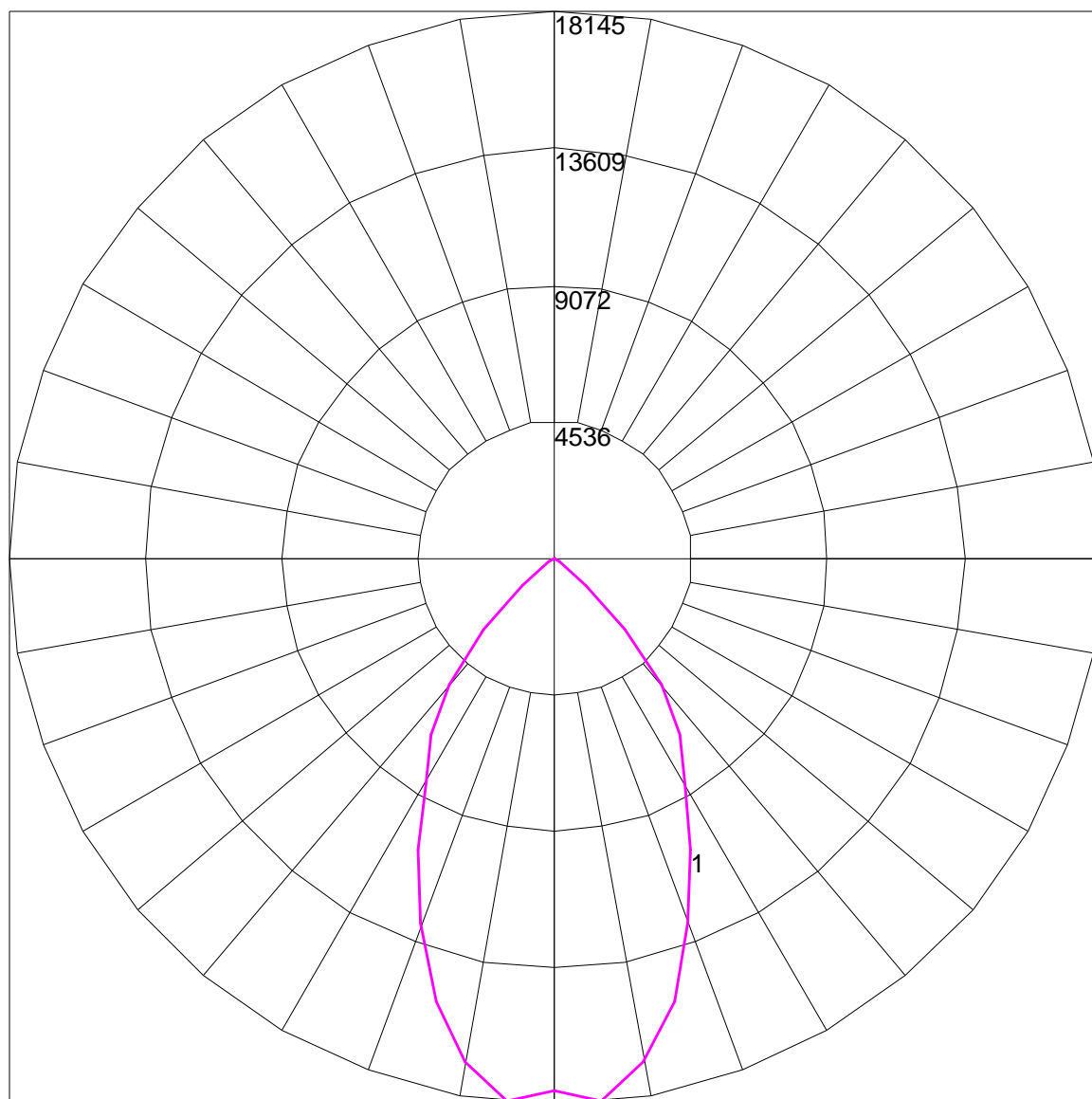
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	74	80	76	74	72
5	90	81	75	70	88	80	74	70	78	73	69	76	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	58	66	62	58	57
8	76	66	59	55	75	65	59	55	64	59	55	63	58	54	62	57	54	53
9	72	62	55	51	71	61	55	51	60	55	51	59	54	51	58	54	50	49
10	68	58	52	48	67	58	52	48	57	51	47	56	51	47	55	50	47	46

POLAR GRAPH



Maximum Candela = 18144.83 Located At Horizontal Angle = 0, Vertical Angle = 5
1 - Vertical Plane Through Horizontal Angles (0 - 180)