

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_12 ~ C1320XT-120LXXK-NDEX-1310XT-SGXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_12

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

[MANUFAC] Spectrum Lighting

[ISSUE DATE] 4/20/2016

[UPDATE] 9/29/2017

[LUMCAT] C1320XT-120L-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	11343
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	82
Total Luminaire Watts	138.4
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_12 ~ C1320XT-120LXXK-NDEX-1310XT-SGXXMW.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3289	3422	3682
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

**IES INDOOR REPORT**  
**PHOTOMETRIC FILENAME : SP-00424\_12 ~ C1320XT-120LXXK-NDEX-1310XT-SGXXMW.IES**

**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>	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121
<b>5</b>	36022.621	36501.750	36360.891	36200.922	36596.719	36304.281	36713.051	36708.180	36613.191	36623.422
<b>10</b>	27558.400	27023.090	27157.070	26985.420	26900.000	27051.830	26961.051	27136.850	27006.801	27045.029
<b>15</b>	14482.060	14161.780	14335.710	14415.730	14278.030	14441.010	14224.710	14342.940	14349.220	14305.560
<b>20</b>	6480.200	6468.520	6452.830	6415.610	6502.720	6464.410	6527.310	6456.950	6548.110	6401.450
<b>25</b>	4453.540	4486.650	4485.750	4411.930	4486.980	4490.510	4455.350	4412.480	4433.930	4442.290
<b>30</b>	3782.890	3673.810	3716.040	3724.050	3693.760	3651.950	3710.590	3697.110	3691.110	3726.840
<b>35</b>	2510.440	2524.300	2512.380	2478.220	2479.880	2525.980	2538.520	2552.490	2520.600	2513.680
<b>40</b>	1079.090	1051.710	1049.630	1045.390	1063.790	1074.640	1080.990	1049.710	1069.720	1080.960
<b>45</b>	169.870	180.810	174.410	165.320	180.370	174.630	181.570	173.370	176.660	176.720
<b>50</b>	4.030	1.830	2.930	3.660	2.010	3.110	2.380	2.010	1.650	2.380
<b>55</b>	0.000	0.000	0.000	0.000	0.090	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	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>
<b>0</b>	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121	42544.121
<b>5</b>	36272.961	36544.031	36677.680	36550.988	36609.879	36544.070	36484.738	36189.949	36034.301
<b>10</b>	27041.779	26914.131	26873.010	27155.980	26776.750	26948.609	26711.641	27087.170	26699.529
<b>15</b>	14263.950	14310.160	14319.190	14318.230	14260.570	14441.350	14384.620	14382.900	14172.080
<b>20</b>	6501.270	6537.480	6503.420	6478.150	6454.010	6495.950	6585.440	6545.810	6589.650
<b>25</b>	4503.530	4488.560	4445.660	4436.200	4526.220	4477.900	4480.780	4466.230	4473.480
<b>30</b>	3676.650	3724.280	3728.890	3632.330	3687.740	3693.480	3694.350	3678.060	3679.900
<b>35</b>	2457.480	2552.910	2499.750	2538.730	2528.620	2520.340	2523.760	2551.080	2472.810
<b>40</b>	1076.070	1045.800	1070.950	1046.270	1051.910	1104.650	1070.780	1051.400	1052.540
<b>45</b>	172.160	178.200	178.650	177.700	174.560	170.340	178.070	171.310	190.150
<b>50</b>	3.110	3.660	2.380	3.660	2.560	2.010	2.380	1.830	2.200
<b>55</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>60</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>65</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>70</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>75</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>80</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>85</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<b>90</b>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_12 ~ C1320XT-120LXXK-NDEX-1310XT-SGXXMW.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	7381.95	N.A.	65.10
0-30	9564.37	N.A.	84.30
0-40	11076.84	N.A.	97.70
0-60	11343.00	N.A.	100.00
0-80	11343.00	N.A.	100.00
0-90	11343.00	N.A.	100.00
10-90	8127.91	N.A.	71.70
20-40	3694.89	N.A.	32.60
20-50	3960.48	N.A.	34.90
40-70	266.16	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	11343.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	3215.1
10-20	4166.86
20-30	2182.42
30-40	1512.47
40-50	265.60
50-60	0.57
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

# IES INDOOR REPORT

PHOTOMETRIC FILENAME : SP-00424\_12 ~ C1320XT-120LXXK-NDEX-1310XT-SGXXMW.IES

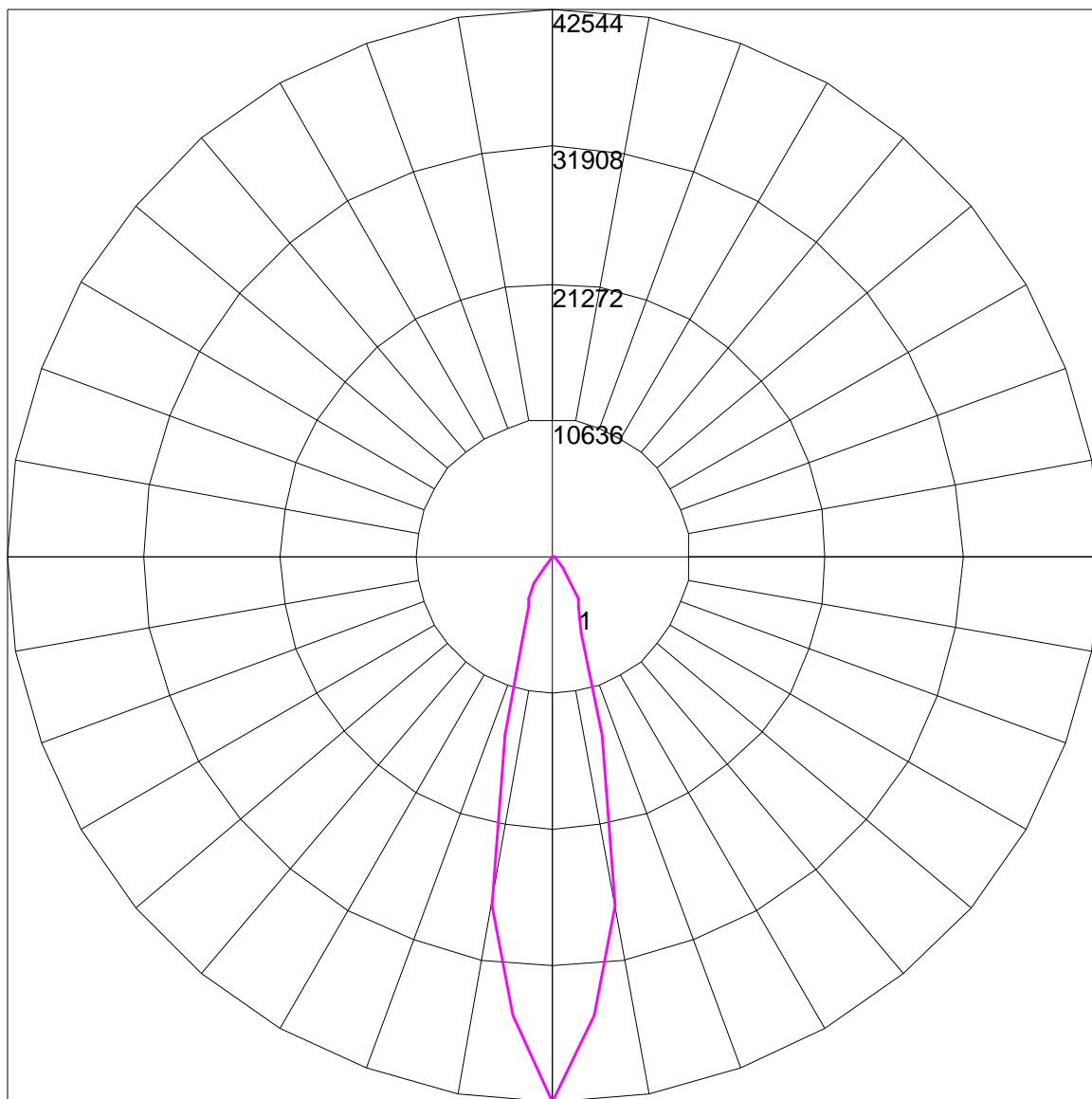
## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	85	78	73	70	85	77	73	70	77	73	70	76	72	69	75	72	69	68
10	83	75	71	67	82	75	70	67	74	70	67	73	70	67	73	69	67	66

IES INDOOR REPORT  
PHOTOMETRIC FILENAME : SP-00424\_12 ~ C1320XT-120LXXK-NDEX-1310XT-SGXXMW.IES

POLAR GRAPH



Maximum Candela = 42544.121 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180)