

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_45 ~ C1320YKSSXT-200LXXK-NDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_45\_M-200L

[TESTLAB] Photopia 2017.2.1 see: www.ltiopics.com/ies

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-200L-xxK-ND-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Narrow Beam

[OTHER] Integral Straight 3" Matte Black (interior) Deep Snoot for Additional Cutoff

[OTHER] Nom. 13" Diam. Cylinder / Nom. 13" Diam Snoot Opening

[OTHER] Matte Black regressed faceplate w/ (4) openings for LEDXT optics

[OTHER] Four (4) LEDXT Reflector modules per Luminaire

[OTHER] 24.5 Degree Beam Angle, 45.7 Degree Field Angle

[LAMPCAT] LED 5000lm

[LAMP] N/A, 19mm

[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	16045
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	78
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)	1.25 ft (Diameter)
Luminous Width (90-270)	1.25 ft (Diameter)
Luminous Height	0.00 ft

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_45 ~ C1320YKSSXT-200LXXK-NDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	698	957	740
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>
<b>0</b>	70965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.969									
<b>5</b>	60763.71161397.57060033.93061061.39160917.28960255.21160345.80960842.30960289.21160759.250									
<b>10</b>	44772.25044535.57845118.53145299.10945189.87945260.10244386.55944532.98844824.30145304.281									
<b>15</b>	24135.52923635.68024088.24024025.53923778.11924002.72123938.49023937.82023908.22123635.949									
<b>20</b>	9209.360 9344.480 9237.350 9387.600 9478.940 9664.920 9850.650 10054.73010219.82010234.020									
<b>25</b>	5476.910 5419.340 5549.120 5475.050 5269.770 4957.700 4561.460 4238.990 4156.120 3950.180									
<b>30</b>	4225.190 3954.350 3642.870 3246.250 3166.010 2912.670 2929.590 2889.980 3052.550 3014.840									
<b>35</b>	1116.750 1249.810 1653.370 1833.730 2013.380 1985.810 2003.200 1952.270 2043.460 1980.590									
<b>40</b>	403.570 364.790 383.140 396.680 494.870 600.010 726.340 770.950 757.310 769.510									
<b>45</b>	56.350 51.560 56.480 50.070 51.560 55.730 46.640 60.320 71.870 77.190									
<b>50</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000									
<b>55</b>	0.000 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 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. 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>	70965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.96970965.969								
<b>5</b>	60283.19160293.69161528.69160928.53960560.80961231.69961358.41061310.94161150.949								
<b>10</b>	45009.10945011.84045189.60245142.39845216.55945261.25045345.09045126.98044639.129								
<b>15</b>	23905.38123849.13123798.96123957.16023875.03923650.57023855.93023984.76023404.189								
<b>20</b>	10151.15010092.2609966.930 9666.180 9740.780 9459.500 9216.770 9225.740 9202.380								
<b>25</b>	3942.600 4222.920 4507.510 5001.380 5293.800 5540.040 5376.890 5374.790 5432.840								
<b>30</b>	2916.370 2904.800 2964.590 2992.870 3097.560 3345.350 3756.520 3864.780 4183.290								
<b>35</b>	1970.420 1974.660 1943.850 1974.300 2062.620 1774.630 1571.790 1269.480 1140.010								
<b>40</b>	805.640 750.640 744.040 633.080 473.170 385.930 378.900 380.850 378.240								
<b>45</b>	73.200 57.920 56.760 58.630 50.200 55.490 61.840 57.590 59.750								
<b>50</b>	0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.000								
<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\_45 ~ C1320YKSSXT-200LXXK-NDEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	12211.96	N.A.	76.10
0-30	14775.97	N.A.	92.10
0-40	15917.21	N.A.	99.20
0-60	16044.81	N.A.	100.00
0-80	16044.81	N.A.	100.00
0-90	16044.81	N.A.	100.00
10-90	10683.99	N.A.	66.60
20-40	3705.25	N.A.	23.10
20-50	3832.85	N.A.	23.90
40-70	127.60	N.A.	0.80
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	16044.81	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	5360.82
10-20	6851.14
20-30	2564.01
30-40	1141.24
40-50	127.60
50-60	0.00
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

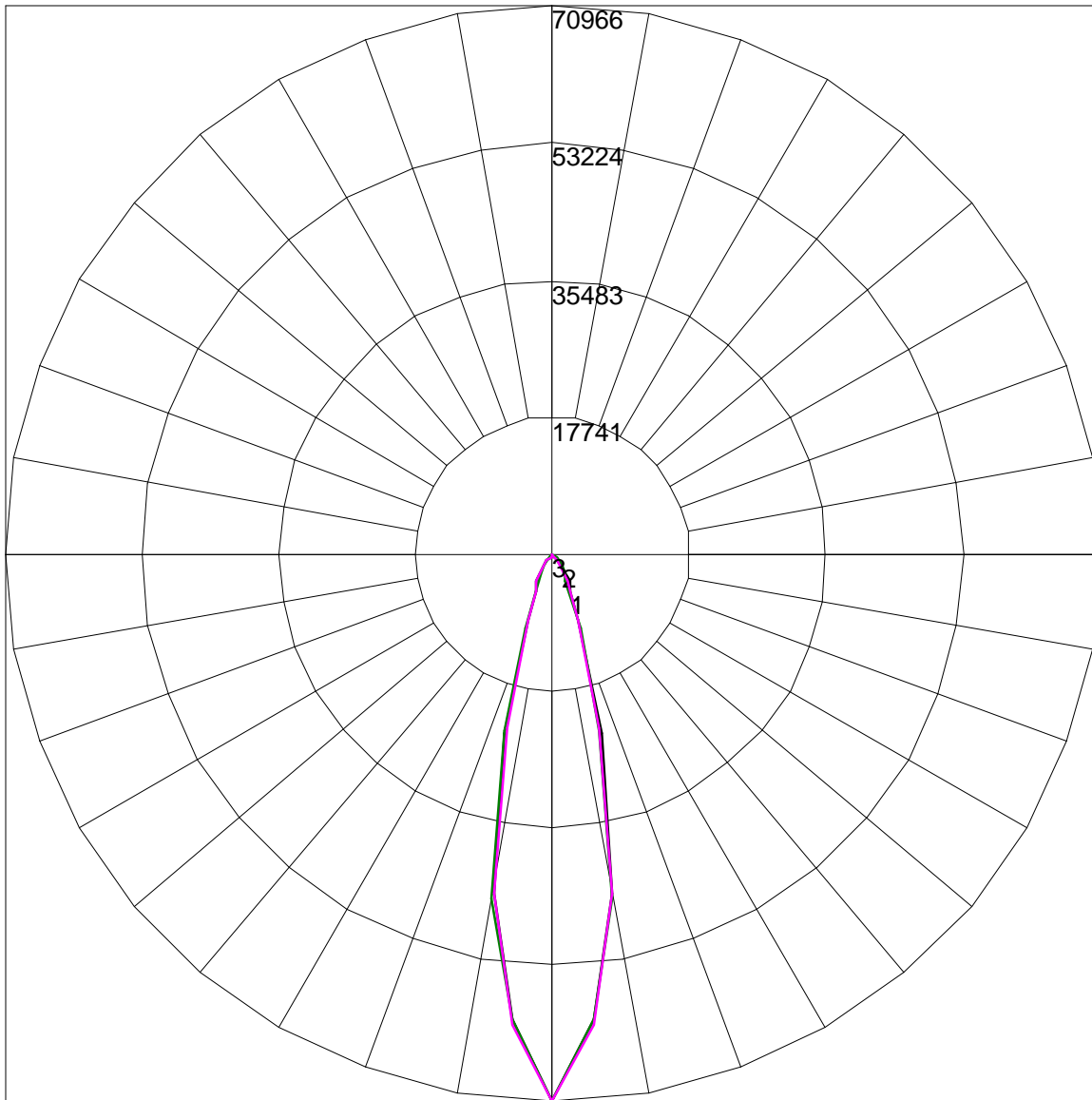
Effective Floor Cavity Reflectance 0.20

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	113	111	109	113	111	109	107	107	105	104	103	102	101	100	99	98	96
2	111	107	104	102	109	106	103	101	103	100	98	100	98	96	97	96	94	93
3	107	103	99	96	106	101	98	95	99	96	94	97	94	92	94	93	91	90
4	104	98	94	91	102	97	94	91	95	92	90	93	91	89	92	90	88	86
5	101	95	90	87	99	94	90	87	92	89	86	91	88	85	89	87	85	84
6	98	91	87	84	96	90	86	83	89	86	83	88	85	82	87	84	82	81
7	95	88	84	81	94	87	83	80	86	83	80	85	82	80	84	81	79	78
8	92	85	81	78	91	85	81	78	84	80	77	83	80	77	82	79	77	76
9	89	82	78	75	88	82	78	75	81	78	75	80	77	75	80	77	75	74
10	87	80	76	73	86	80	76	73	79	75	73	78	75	73	78	75	73	72

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## POLAR GRAPH



Maximum Candela = 70965.969 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (0 - 180)

# 2 - Vertical Plane Through Horizontal Angles (45 - 225)

# 3 - Vertical Plane Through Horizontal Angles (90 - 270)