

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_47 ~ C1320YKFSXT-200LXXK-WDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_47\_M-200L

[TESTLAB] Photopia 2017.2.1 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-200L-xxK-WD-EX-MBI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Wide Beam

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

[OTHER] Nom. 13" Diam. Cylinder / Nom. 15" Diam Snoot Opening

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

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

[OTHER] 53.1 Degree Beam Angle, 87.9 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	15584
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	75
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)	0.88
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\_47 ~ C1320YKFSXT-200LXXK-WDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12047	21459	12676
55	720	419	847
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>	17091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.221									
<b>5</b>	16679.75016752.02016576.66017112.59016496.80116371.21017240.77016954.42016813.77016658.500									
<b>10</b>	18252.03918300.97118329.15018604.10918213.80118345.77918322.02018504.08018574.40018228.449									
<b>15</b>	17208.94916749.71116732.74016877.09017018.13116966.25017054.86916665.99016781.52916982.260									
<b>20</b>	14065.17013968.57014016.98013889.74014092.74013854.85013914.28013740.73014232.95013865.530									
<b>25</b>	10424.68010621.66010488.17010490.61010371.71010634.11010649.44010593.81010546.79010480.190									
<b>30</b>	6916.980 6973.680 7003.260 7118.440 7136.560 7297.530 7572.600 7727.480 7877.400 7837.400									
<b>35</b>	5202.410 5105.050 5185.310 5245.480 4983.200 4907.750 4478.320 4155.680 4003.860 4053.970									
<b>40</b>	3825.090 3720.030 3342.660 3111.890 2791.120 2781.170 2775.310 2688.220 2650.830 2790.020									
<b>45</b>	972.110 1101.160 1340.080 1602.250 1725.790 1742.880 1772.280 1693.590 1774.560 1731.550									
<b>50</b>	385.540 362.770 361.390 369.770 406.590 514.700 614.390 687.090 711.700 742.700									
<b>55</b>	47.130 57.550 53.150 52.550 49.230 48.140 41.680 36.820 37.570 27.420									
<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>	17091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.22117091.221								
<b>5</b>	16885.48016439.76016764.28916785.55116585.93016854.68916493.61916934.16016860.090								
<b>10</b>	18152.72118139.13118088.27018403.19918267.16018453.57018309.27918097.15018354.369								
<b>15</b>	16652.61916836.82016657.15016914.35916827.27016981.58017019.01016839.78917242.869								
<b>20</b>	13727.84013959.81014016.42014018.50013896.63014101.42013939.05013819.77013719.260								
<b>25</b>	10549.29010638.97010767.42010616.13010482.54010335.10010520.71010728.99010681.370								
<b>30</b>	7958.900 7719.740 7558.080 7225.510 7054.760 6801.310 6967.430 6879.540 6810.870								
<b>35</b>	4086.260 4192.130 4397.740 4739.080 5093.950 5208.770 5149.070 5111.430 5175.180								
<b>40</b>	2741.330 2712.300 2706.310 2760.510 2859.780 3108.880 3381.980 3604.720 3828.490								
<b>45</b>	1733.600 1720.690 1700.730 1727.460 1742.720 1541.460 1356.820 1085.420 1022.830								
<b>50</b>	703.930 704.300 627.690 530.360 421.840 368.680 327.520 342.770 337.060								
<b>55</b>	41.210 36.860 43.460 53.340 57.560 50.680 65.930 59.250 55.440								
<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\_47 ~ C1320YKFSXT-200LXXK-WDEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6286.17	N.A.	40.30
0-30	11117.2	N.A.	71.30
0-40	14185.64	N.A.	91.00
0-60	15584.04	N.A.	100.00
0-80	15584.04	N.A.	100.00
0-90	15584.04	N.A.	100.00
10-90	13925.19	N.A.	89.40
20-40	7899.47	N.A.	50.70
20-50	9165.7	N.A.	58.80
40-70	1398.4	N.A.	9.00
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	15584.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1658.85
10-20	4627.31
20-30	4831.03
30-40	3068.44
40-50	1266.23
50-60	132.17
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

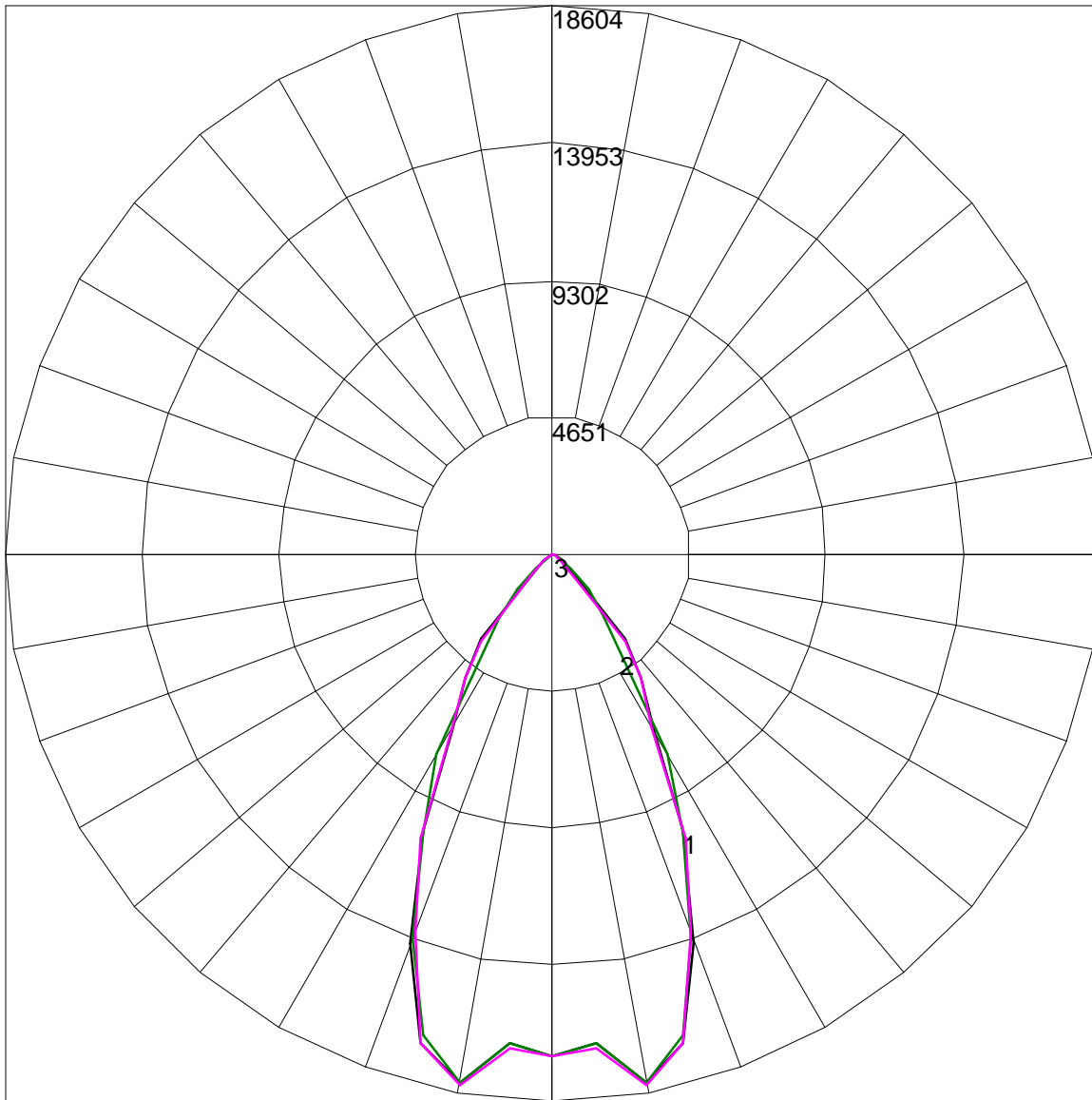
Effective Floor Cavity Reflectance 0.20

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	114	111	108	106	111	109	106	105	105	103	101	101	100	98	98	96	95	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	88	85	83	81
4	97	90	85	80	96	89	84	80	87	82	79	85	81	78	83	80	77	76
5	93	84	79	74	91	83	78	74	82	77	73	80	76	73	78	75	72	71
6	88	79	73	69	86	78	73	69	77	72	68	75	71	68	74	70	67	66
7	84	74	68	64	82	74	68	64	72	67	64	71	67	63	70	66	63	62
8	80	70	64	60	78	70	64	60	68	63	60	67	63	59	66	62	59	58
9	76	66	60	56	75	66	60	56	65	60	56	64	59	56	63	59	56	54
10	72	63	57	53	71	62	57	53	61	56	53	61	56	53	60	56	53	51

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## POLAR GRAPH



Maximum Candela = 18604.109 Located At Horizontal Angle = 15, Vertical Angle = 10

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

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

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