

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_51 ~ C1320YKFSXT-200LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_51\_M-200L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Xtra 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] 54.5 Degree Beam Angle, 88.1 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	15859
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.86
Spacing Criterion (90-270)	0.86
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\_51 ~ C1320YKFSXT-200LXXK-XWEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12319	20298	12624
55	909	606	837
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>
0	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080
5	18568.490	18779.721	18558.789	18767.939	18441.471	18672.020	18298.590	18797.510	18616.789	18956.430
10	17396.840	17640.859	17292.891	17511.811	17516.900	17561.971	17622.330	17471.920	17358.199	17420.000
15	15846.540	16164.790	16194.850	15864.320	15769.890	16093.030	15982.800	16029.900	15896.010	15784.810
20	12984.120	13186.600	13237.300	13071.700	13229.940	13020.290	13164.940	13391.020	13221.420	13182.880
25	10938.360	11060.040	11047.960	10896.720	10913.730	11153.880	10949.720	11089.260	10872.910	10958.400
30	7748.720	7676.910	7866.910	7803.870	7941.760	8142.840	8269.360	8403.280	8551.720	8545.080
35	5836.790	5773.360	5771.940	5896.050	5755.650	5477.130	5071.840	4848.040	4588.440	4504.670
40	3948.860	3812.120	3493.140	3232.960	2944.290	2881.910	2919.680	2952.770	2926.740	2919.550
45	994.030	1128.230	1349.390	1534.090	1598.790	1578.450	1578.320	1608.500	1594.300	1637.860
50	275.830	332.330	334.100	306.620	385.530	476.980	602.560	636.360	662.330	698.310
55	59.470	49.470	48.420	52.180	49.590	47.710	42.800	38.540	29.490	39.640
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	0.000	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	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	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080	18465.080
5	18641.619	18477.740	18446.801	18445.020	18973.230	18833.520	18768.449	18912.689	18489.650
10	17507.391	17471.090	17440.311	17506.930	17521.100	17612.730	17314.301	17769.949	17479.730
15	16051.760	15989.230	15858.170	15752.140	16035.140	15921.610	16080.840	16158.510	15740.580
20	13226.300	13307.060	13311.290	13231.260	13174.510	13103.130	13397.660	13170.890	13271.520
25	11010.940	10947.700	10916.640	10818.220	10964.930	10783.780	10729.150	10892.750	10828.550
30	8494.130	8618.960	8288.690	8160.290	7941.870	7807.600	7876.760	7723.860	7747.570
35	4739.180	4818.630	5020.130	5486.080	5717.790	5739.710	5832.790	5758.980	5763.600
40	2914.600	2945.690	2928.720	2937.300	2992.600	3078.690	3480.800	3819.020	3990.700
45	1635.310	1573.650	1649.660	1647.740	1631.770	1489.690	1333.560	1167.860	1018.620
50	649.780	623.430	581.320	474.860	386.450	342.900	330.990	318.470	331.380
55	34.730	41.430	50.830	45.400	52.960	50.760	57.650	52.070	54.810
60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
65	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
70	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
75	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
80	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
85	0.000	0.000	0.000	0.000	0.000	0.000	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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_51 ~ C1320YKFSXT-200LXXK-XWEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	6127.21	N.A.	38.60
0-30	11069.54	N.A.	69.80
0-40	14478.23	N.A.	91.30
0-60	15859.24	N.A.	100.00
0-80	15859.24	N.A.	100.00
0-90	15859.24	N.A.	100.00
10-90	14121.81	N.A.	89.00
20-40	8351.03	N.A.	52.70
20-50	9609.04	N.A.	60.60
40-70	1381.01	N.A.	8.70
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	15859.24	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	1737.43
10-20	4389.78
20-30	4942.33
30-40	3408.69
40-50	1258.02
50-60	122.99
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

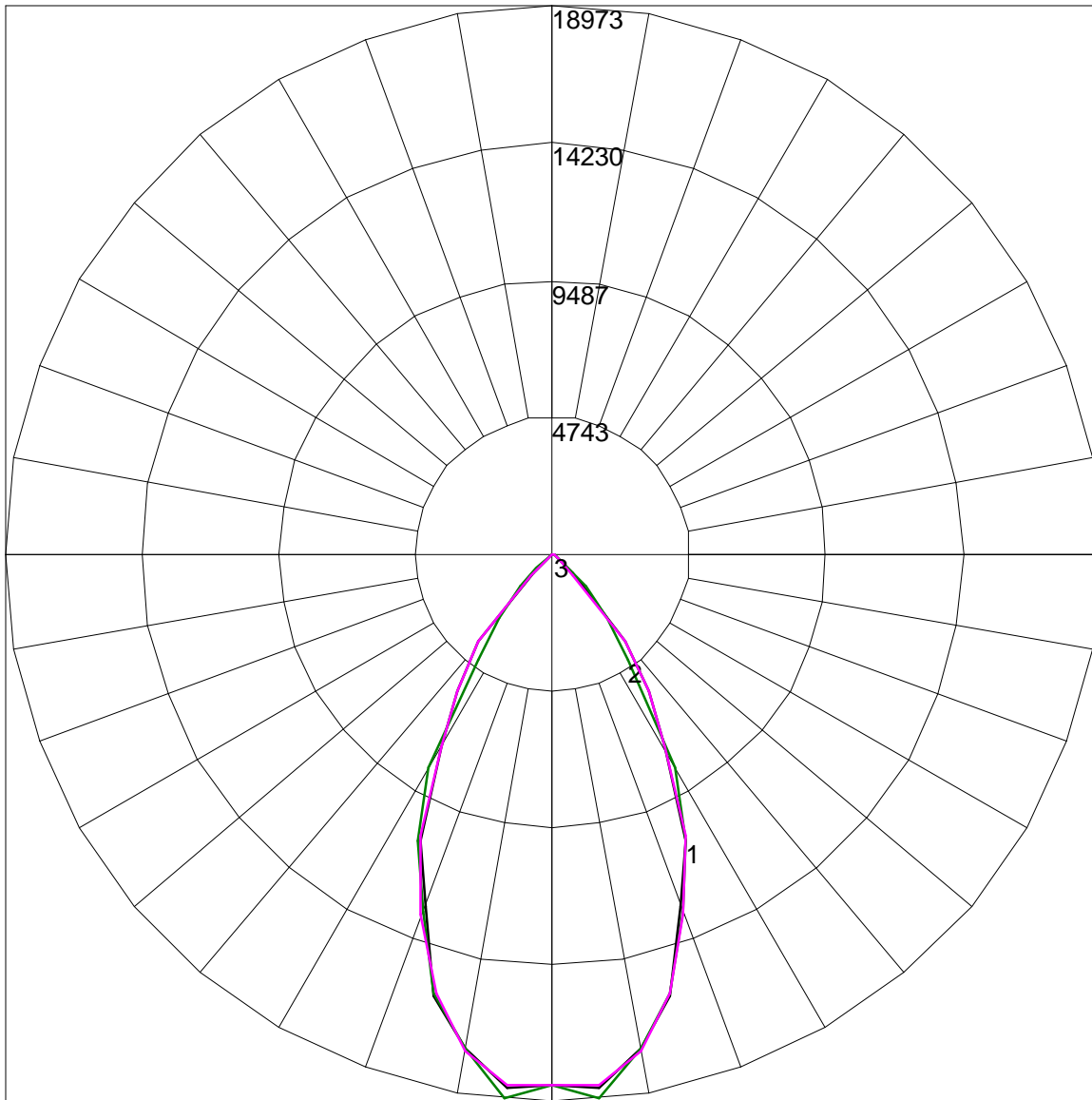
Effective Floor Cavity Reflectance 0.20

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	104	105	103	101	101	99	98	97	96	95	94
2	108	103	99	96	106	101	98	95	98	95	93	95	93	91	92	90	89	87
3	103	96	91	87	101	95	90	87	92	88	85	90	87	84	87	85	83	81
4	97	90	84	80	96	89	84	80	87	82	79	85	81	78	83	79	77	75
5	92	84	78	74	91	83	78	74	81	77	73	80	76	72	78	75	72	70
6	88	79	73	69	86	78	72	68	77	72	68	75	71	67	74	70	67	65
7	83	74	68	64	82	73	68	64	72	67	63	71	66	63	70	66	63	61
8	79	70	64	60	78	69	63	60	68	63	59	67	62	59	66	62	59	57
9	75	66	60	56	74	65	60	56	64	59	56	63	59	55	63	58	55	54
10	72	62	56	53	71	62	56	53	61	56	52	60	56	52	59	55	52	51

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## POLAR GRAPH



Maximum Candela = 18973.23 Located At Horizontal Angle = 70, Vertical Angle = 5

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

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

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