

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_36 ~ C1320YKFSXT-200LXXK-MDEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_36\_M-200L

[TESTLAB] Photopia 2017.2.0 see: www.ltiopics.com/ies

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/1/2017

[UPDATE] 11/03/2017

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

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Medium 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] 36.9 Degree Beam Angle, 84.1 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	15373
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	74
Total Luminaire Watts	207
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.58
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.72
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\_36 ~ C1320YKFSXT-200LXXK-MDEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	14945	25370	12963
55	931	569	921
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>	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680
<b>5</b>	24585.900	23389.410	23503.850	23049.189	23596.199	23751.551	23909.770	23676.449	23668.881	23568.660
<b>10</b>	20208.660	20442.170	20339.100	20413.199	20533.391	20258.301	20649.730	20411.770	20217.680	20412.230
<b>15</b>	15292.160	14926.100	15134.290	15236.660	14976.540	15105.340	15276.590	15077.800	15255.270	15204.740
<b>20</b>	11821.310	12373.670	12008.350	11854.640	11721.710	12079.050	12195.520	11982.680	12096.740	11980.460
<b>25</b>	9585.984	9772.204	9984.063	10032.090	9955.108	9962.009	10098.800	10077.450	10194.570	10219.790
<b>30</b>	6597.619	6529.122	6726.995	6777.705	6955.891	6941.738	7052.994	7250.633	7502.367	7419.867
<b>35</b>	4515.036	4761.719	4788.124	4791.342	4640.128	4352.387	3873.925	3716.327	3551.077	3528.572
<b>40</b>	3650.563	3617.273	3289.558	3033.923	2838.801	2726.762	2691.755	2578.732	2693.539	2738.764
<b>45</b>	1205.925	1397.646	1585.300	1791.392	1973.245	2028.489	2020.287	2020.387	2028.656	2047.176
<b>50</b>	375.608	421.851	423.701	443.855	492.749	612.589	730.729	805.694	873.491	860.505
<b>55</b>	60.946	47.726	56.628	54.978	63.646	47.693	46.959	48.076	46.793	37.241
<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>	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680	25797.680
<b>5</b>	23808.980	23323.680	23659.180	23363.939	23805.990	23583.199	23116.811	23845.699	24154.061
<b>10</b>	20282.311	20472.811	20246.619	20143.580	20488.359	20385.779	20214.859	20433.850	20676.570
<b>15</b>	15120.220	15497.480	15315.280	14795.740	15135.180	15333.480	15161.900	14919.300	14911.850
<b>20</b>	11975.540	12026.720	11975.530	12065.830	12000.220	12092.470	12055.360	12094.800	11999.370
<b>25</b>	10139.510	10112.110	10008.430	9918.284	9926.802	10036.560	9855.221	9797.193	9694.589
<b>30</b>	7512.202	7260.835	7089.201	7062.229	6845.386	6716.360	6627.025	6595.569	6575.848
<b>35</b>	3624.942	3790.308	3917.984	4241.515	4530.039	4822.498	4739.248	4748.800	4639.745
<b>40</b>	2665.116	2681.286	2715.576	2733.047	2906.631	3021.938	3421.551	3690.005	3773.855
<b>45</b>	2115.390	2128.959	1979.046	2095.369	1985.530	1893.645	1552.494	1307.311	1046.009
<b>50</b>	886.794	804.011	758.618	593.685	480.513	420.034	406.181	406.615	431.053
<b>55</b>	37.274	37.608	53.411	53.477	55.328	55.744	58.578	57.245	60.279
<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

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Zone	Lumens	%Lamp	%Fixt
0-20	6510.48	N.A.	42.40
0-30	10964.78	N.A.	71.30
0-40	13832.95	N.A.	90.00
0-60	15372.66	N.A.	100.00
0-80	15372.66	N.A.	100.00
0-90	15372.66	N.A.	100.00
10-90	13208.42	N.A.	85.90
20-40	7322.48	N.A.	47.60
20-50	8708.51	N.A.	56.60
40-70	1539.7	N.A.	10.00
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	15372.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	2164.24
10-20	4346.24
20-30	4454.3
30-40	2868.18
40-50	1386.04
50-60	153.66
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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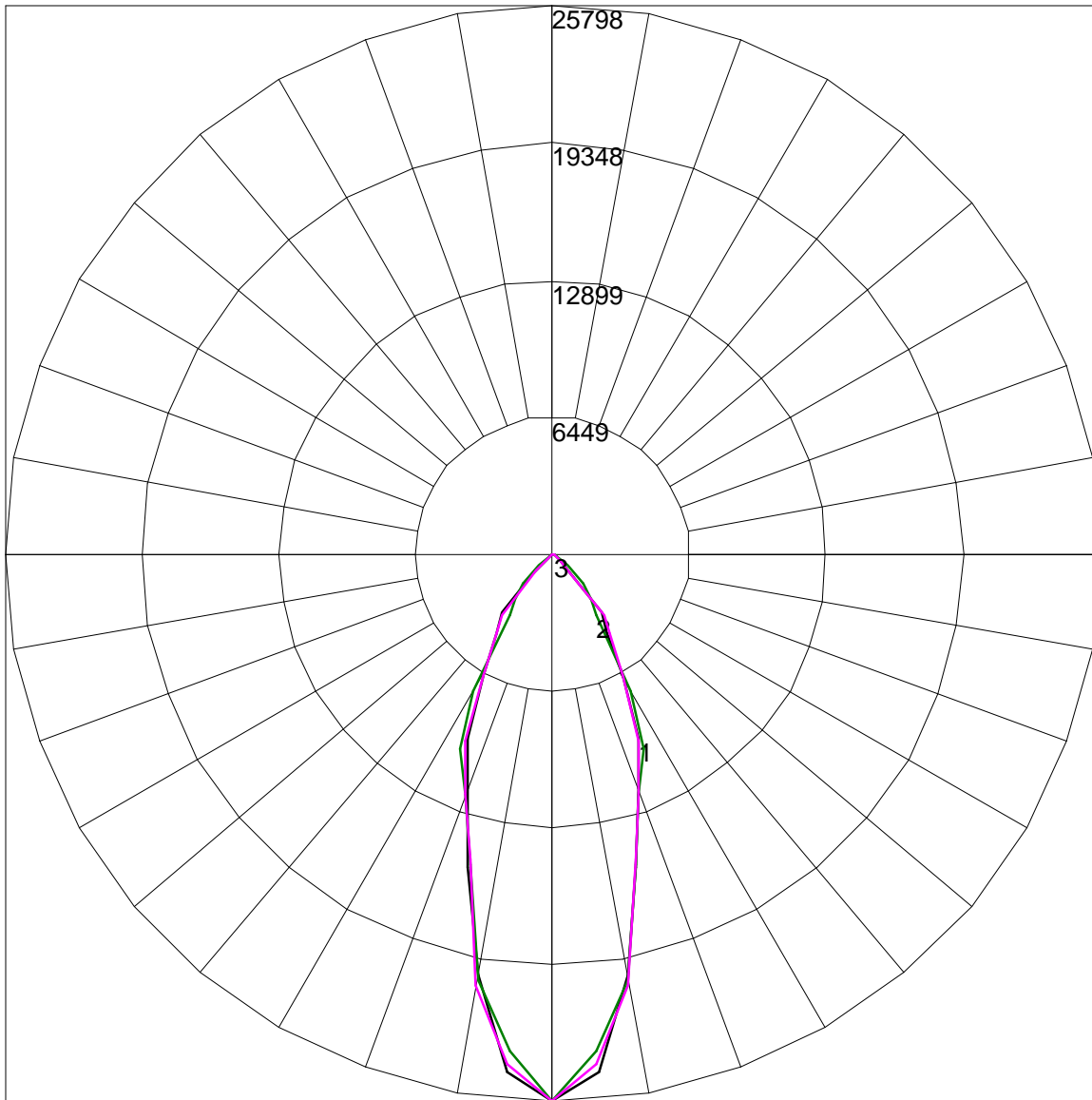
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	82
4	98	90	85	81	96	89	84	80	87	83	80	85	82	79	83	80	78	76
5	93	85	79	75	91	84	79	75	82	78	74	81	76	73	79	75	73	71
6	89	80	74	70	87	79	74	70	78	73	69	76	72	69	75	71	68	67
7	84	75	69	65	83	75	69	65	73	68	65	72	68	64	71	67	64	63
8	80	71	65	61	79	71	65	61	69	64	61	68	64	61	67	63	60	59
9	77	67	62	58	76	67	61	58	66	61	57	65	60	57	64	60	57	56
10	73	64	58	54	72	63	58	54	63	58	54	62	57	54	61	57	54	53

POLAR GRAPH



Maximum Candela = 25797.68 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)