

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : SP-00424\_51 ~ C1320YKFSXT-52LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424\_51\_M-52L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-52L-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 1300lm

[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, scaled from 200L

**CHARACTERISTICS**

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4123
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	69
Total Luminaire Watts	60
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-52LXXK-XWEX-MBI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3203	5277	3282
55	236	157	218
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	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921
5	4827.807	4882.727	4825.285	4879.664	4794.782	4854.725	4757.633	4887.352	4840.365	4928.672
10	4523.178	4586.623	4496.151	4553.071	4554.394	4566.112	4581.806	4542.699	4513.132	4529.200
15	4120.100	4202.845	4210.661	4124.723	4100.171	4184.188	4155.528	4167.774	4132.962	4104.050
20	3375.871	3428.516	3441.698	3398.642	3439.784	3385.275	3422.884	3481.665	3437.569	3427.549
25	2843.973	2875.610	2872.469	2833.147	2837.570	2900.009	2846.927	2883.207	2826.956	2849.184
30	2014.667	1995.997	2045.397	2029.006	2064.858	2117.138	2150.034	2184.853	2223.447	2221.721
35	1517.565	1501.074	1500.704	1532.973	1496.469	1424.054	1318.678	1260.490	1192.994	1171.214
40	1026.704	991.151	908.216	840.570	765.515	749.297	759.117	767.720	760.952	759.083
45	258.448	293.340	350.841	398.863	415.685	410.397	410.363	418.210	414.518	425.844
50	71.716	86.406	86.866	79.721	100.238	124.015	156.666	165.454	172.206	181.561
55	15.462	12.862	12.589	13.567	12.893	12.405	11.128	10.020	7.667	10.306
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	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921	4800.921
5	4846.821	4804.212	4796.168	4795.705	4933.040	4896.715	4879.797	4917.299	4807.309
10	4551.921	4542.483	4534.481	4551.802	4555.486	4579.310	4501.718	4620.187	4544.730
15	4173.457	4157.200	4123.124	4095.556	4169.136	4139.618	4181.018	4201.212	4092.551
20	3438.838	3459.835	3460.935	3440.127	3425.372	3406.814	3483.391	3424.431	3450.595
25	2862.844	2846.402	2838.326	2812.737	2850.882	2803.783	2789.579	2832.115	2815.423
30	2208.474	2240.930	2155.059	2121.675	2064.886	2029.976	2047.958	2008.204	2014.368
35	1232.187	1252.844	1305.234	1426.381	1486.625	1492.325	1516.525	1497.335	1498.536
40	757.796	765.879	761.467	763.698	778.076	800.459	905.008	992.945	1037.582
45	425.181	409.149	428.912	428.412	424.260	387.319	346.726	303.644	264.841
50	168.943	162.092	151.143	123.464	100.477	89.154	86.057	82.802	86.159
55	9.030	10.772	13.216	11.804	13.770	13.198	14.989	13.538	14.251
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-52LXXK-XWEX-MBI.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1593.07	N.A.	38.60
0-30	2878.08	N.A.	69.80
0-40	3764.34	N.A.	91.30
0-60	4123.4	N.A.	100.00
0-80	4123.4	N.A.	100.00
0-90	4123.4	N.A.	100.00
10-90	3671.67	N.A.	89.00
20-40	2171.27	N.A.	52.70
20-50	2498.35	N.A.	60.60
40-70	359.06	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	4123.4	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	451.73
10-20	1141.34
20-30	1285.01
30-40	886.26
40-50	327.09
50-60	31.98
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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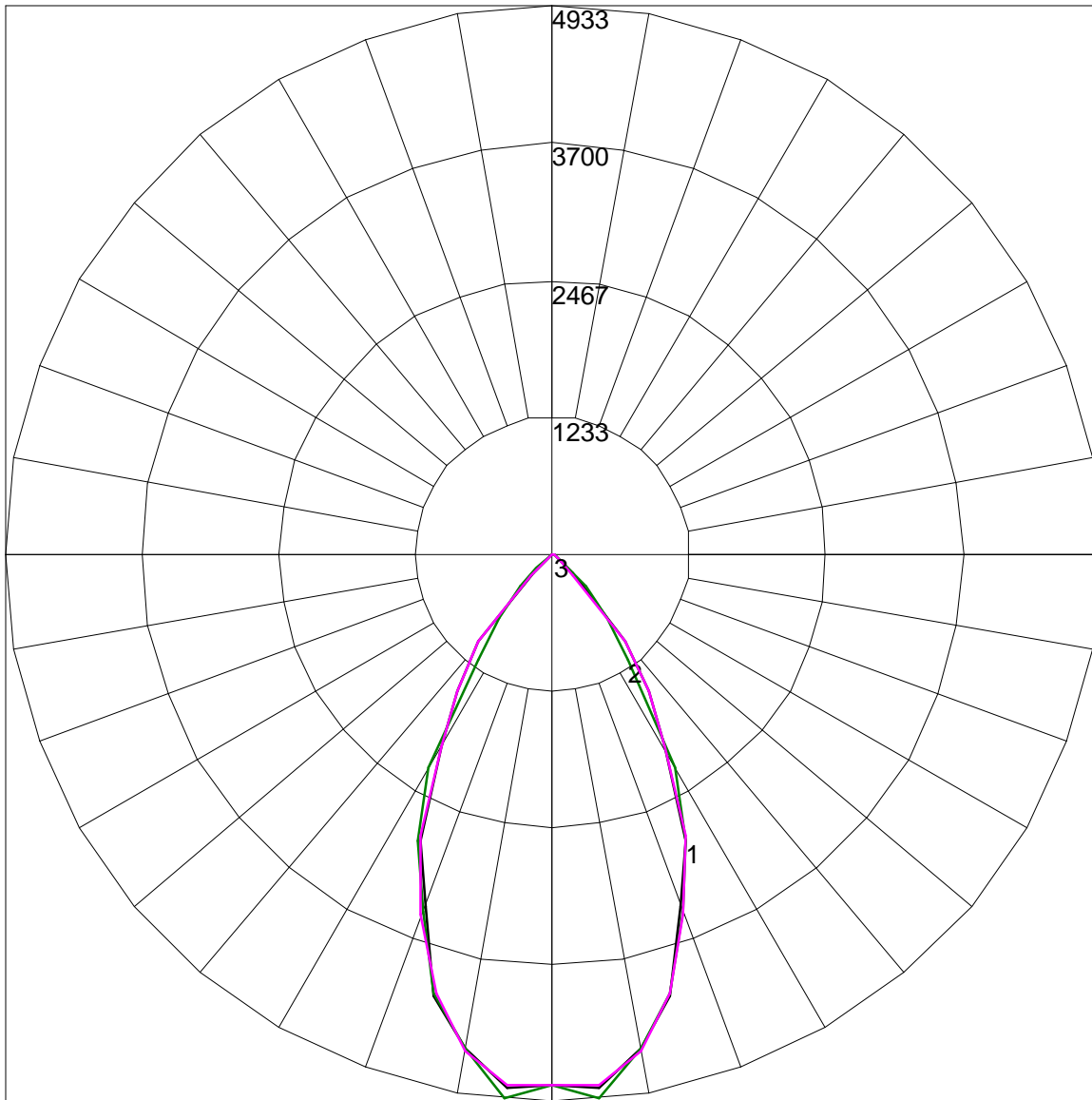
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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	106	111	109	106	104	105	103	101	101	100	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

POLAR GRAPH



Maximum Candela = 4933.04 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)