

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_51 ~ C1320YKFSXT-160LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_51_M-160L

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

[ISSUE DATE] 8/16/2017

[UPDATE] 11/06/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKFSXT-160L-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 4000lm

[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	12212
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	77
Total Luminaire Watts	159.6
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9485	15629	9720
55	700	466	645
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	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111
5	14297.737	14460.385	14290.267	14451.313	14199.932	14377.455	14089.914	14474.082	14334.927	14596.451
10	13395.566	13583.461	13315.526	13484.094	13488.013	13522.717	13569.194	13453.378	13365.813	13413.400
15	12201.835	12446.888	12470.034	12215.526	12142.815	12391.633	12306.756	12343.023	12239.927	12154.303
20	9997.772	10153.682	10192.721	10065.209	10187.054	10025.623	10137.004	10311.085	10180.493	10150.817
25	8422.537	8516.231	8506.929	8390.474	8403.572	8588.487	8431.284	8538.730	8372.140	8437.968
30	5966.514	5911.221	6057.521	6008.980	6115.155	6269.987	6367.407	6470.525	6584.824	6579.711
35	4494.328	4445.487	4444.394	4539.958	4431.850	4217.390	3905.317	3732.991	3533.099	3468.596
40	3040.622	2935.332	2689.718	2489.379	2267.103	2219.071	2248.154	2273.633	2253.590	2248.053
45	765.403	868.737	1039.030	1181.249	1231.068	1215.406	1215.306	1238.545	1227.611	1261.152
50	212.389	255.894	257.257	236.097	296.858	367.275	463.971	489.997	509.994	537.699
55	45.792	38.092	37.283	40.179	38.184	36.737	32.956	29.676	22.707	30.523
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	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111	14218.111
5	14354.046	14227.859	14204.036	14202.665	14609.387	14501.810	14451.705	14562.770	14237.030
10	13480.691	13452.739	13429.039	13480.336	13491.247	13561.802	13332.011	13682.860	13459.392
15	12359.855	12311.707	12210.791	12129.147	12347.057	12259.639	12382.246	12442.052	12120.246
20	10184.251	10246.436	10249.693	10188.070	10144.372	10089.410	10316.198	10141.585	10219.070
25	8478.424	8429.729	8405.813	8330.029	8442.996	8303.510	8261.445	8387.417	8337.983
30	6540.480	6636.599	6382.291	6283.423	6115.240	6011.852	6065.105	5947.372	5965.629
35	3649.169	3710.345	3865.500	4224.281	4402.698	4419.577	4491.248	4434.414	4437.972
40	2244.242	2268.181	2255.114	2261.721	2304.302	2370.591	2680.216	2940.645	3072.839
45	1259.189	1211.710	1270.238	1268.760	1256.463	1147.061	1026.841	899.252	784.337
50	500.331	480.041	447.616	365.642	297.566	264.033	254.862	245.222	255.163
55	26.742	31.901	39.139	34.958	40.779	39.085	44.390	40.094	42.204
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

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Zone	Lumens	%Lamp	%Fixt
0-20	4717.95	N.A.	38.60
0-30	8523.55	N.A.	69.80
0-40	11148.24	N.A.	91.30
0-60	12211.62	N.A.	100.00
0-80	12211.61	N.A.	100.00
0-90	12211.62	N.A.	100.00
10-90	10873.79	N.A.	89.00
20-40	6430.29	N.A.	52.70
20-50	7398.96	N.A.	60.60
40-70	1063.38	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	12211.62	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1337.82
10-20	3380.13
20-30	3805.59
30-40	2624.7
40-50	968.68
50-60	94.70
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

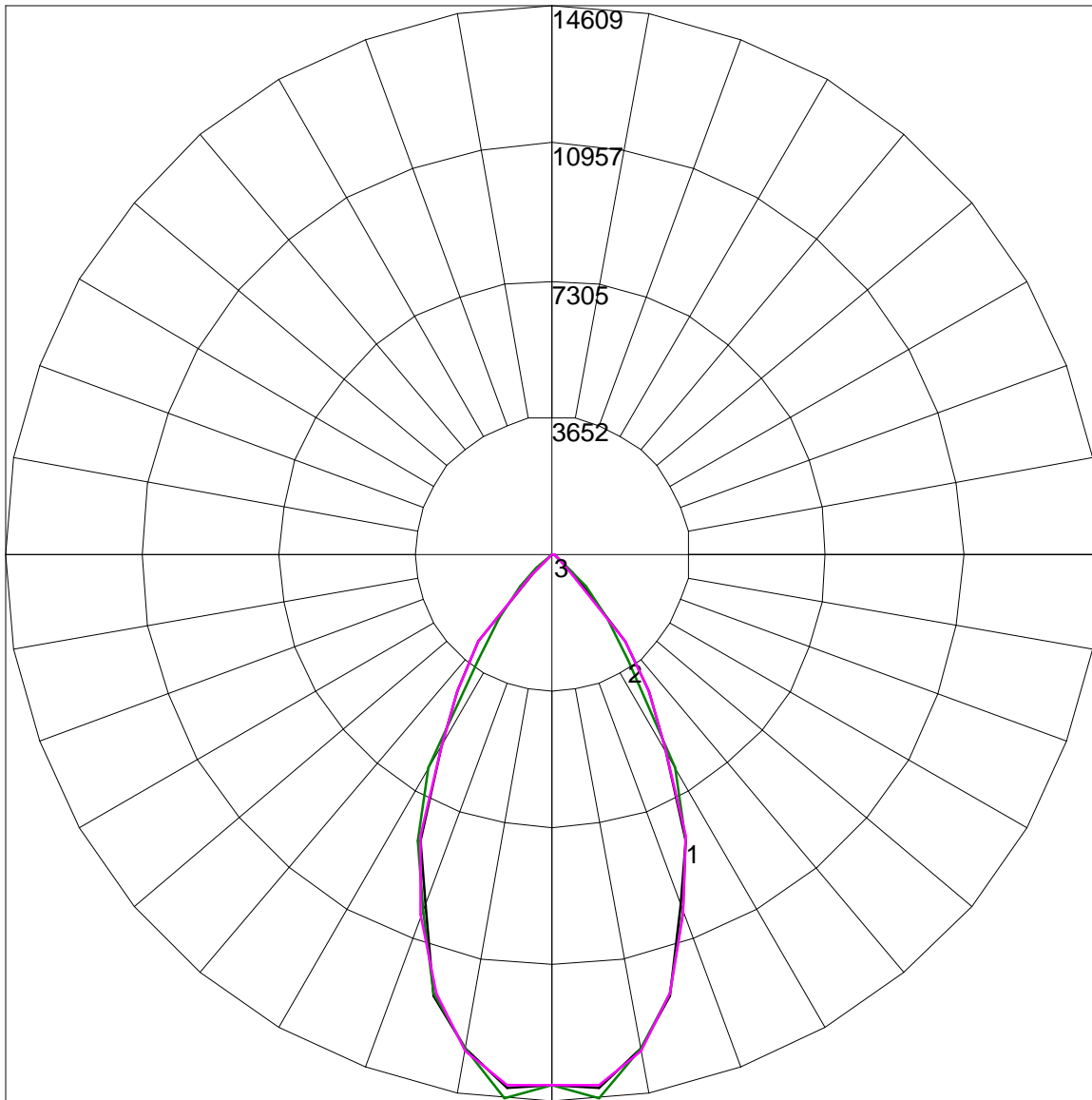
Effective Floor Cavity Reflectance 0.20

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	86	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 = 14609.387 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)