

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_53 ~ C1320YKSSXT-160LXXK-XWEX-MBI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_53_M-160L

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

[ISSUE DATE]

[TEST DATE] 8/16/2017

[UPDATE] 11/08/2017

[MANUFAC] Spectrum Lighting

[LUMCAT] C1320YKSSXT-160L-xxK-XW-EX-MBI

[LUMINAIRE] Nom. 13" Diam. x 26.5" H Cylinder Downlight, Yoke Mounted, Xtra Wide Beam

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

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

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

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

[OTHER] 46.8 Degree Beam Angle, 77.4 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	9668
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	61
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.78
Spacing Criterion (90-270)	0.76
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

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7570	4839	7642
55	0	0	0
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	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019
5	14357.166	14116.886	14191.793	14405.715	14279.042	14363.772	14001.342	14448.057	14052.885	14308.547
10	13698.800	13513.354	13357.267	13433.989	13486.349	13324.679	13200.726	13502.934	13415.117	13406.870
15	12095.876	12248.420	12252.055	12116.866	12059.031	12027.585	12280.722	12122.487	12369.642	12312.184
20	9122.521	8979.717	8899.760	8964.463	9154.383	9130.598	9293.007	9342.210	9319.833	9392.491
25	6835.290	6747.702	6720.668	6768.931	6613.591	6255.495	5977.772	5684.717	5640.504	5545.055
30	4786.412	4673.284	4311.846	4120.362	3937.010	3710.006	3786.791	3793.505	3754.928	3781.824
35	2076.705	2108.337	2408.391	2599.212	2763.276	2774.033	2857.932	2799.589	2772.216	2694.322
40	1055.770	1165.988	1064.055	1106.621	1189.380	1436.343	1648.039	1845.875	2026.340	2054.198
45	610.833	589.820	597.728	576.715	615.384	575.005	529.429	436.705	419.003	390.436
50	63.171	77.924	59.082	40.063	13.883	2.356	0.239	0.000	0.000	0.000
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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. 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	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019	14164.019
5	14030.362	14097.529	14380.443	14370.278	14535.089	14373.506	14426.065	14416.779	14127.728
10	13430.224	13453.763	13502.742	13433.350	13624.464	13445.315	13227.484	13503.250	13333.342
15	12201.081	12256.336	12077.465	12110.614	12143.084	12143.308	12235.153	12038.303	12308.819
20	9315.067	9308.691	9240.185	8984.760	9084.290	8976.845	8773.873	8911.402	8878.385
25	5547.542	5680.652	5835.414	6295.936	6493.471	6893.802	6768.808	6821.260	6771.534
30	3720.594	3793.929	3782.525	3763.498	3901.690	4092.889	4289.177	4677.473	4657.684
35	2720.133	2688.001	2867.580	2852.149	2746.143	2635.795	2396.733	2056.524	2107.867
40	2010.100	1827.564	1670.800	1362.908	1247.685	1184.560	1098.289	1120.743	1133.910
45	397.597	433.687	506.491	582.543	605.420	620.350	606.483	602.194	616.616
50	0.000	0.000	0.000	1.679	17.517	38.731	53.846	69.154	79.995
55	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
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	4605.36	N.A.	47.60
0-30	7525.98	N.A.	77.80
0-40	9179.68	N.A.	95.00
0-60	9667.76	N.A.	100.00
0-80	9667.76	N.A.	100.00
0-90	9667.76	N.A.	100.00
10-90	8336.37	N.A.	86.20
20-40	4574.32	N.A.	47.30
20-50	5057.01	N.A.	52.30
40-70	488.08	N.A.	5.00
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	9667.76	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1331.39
10-20	3273.97
20-30	2920.62
30-40	1653.7
40-50	482.69
50-60	5.39
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

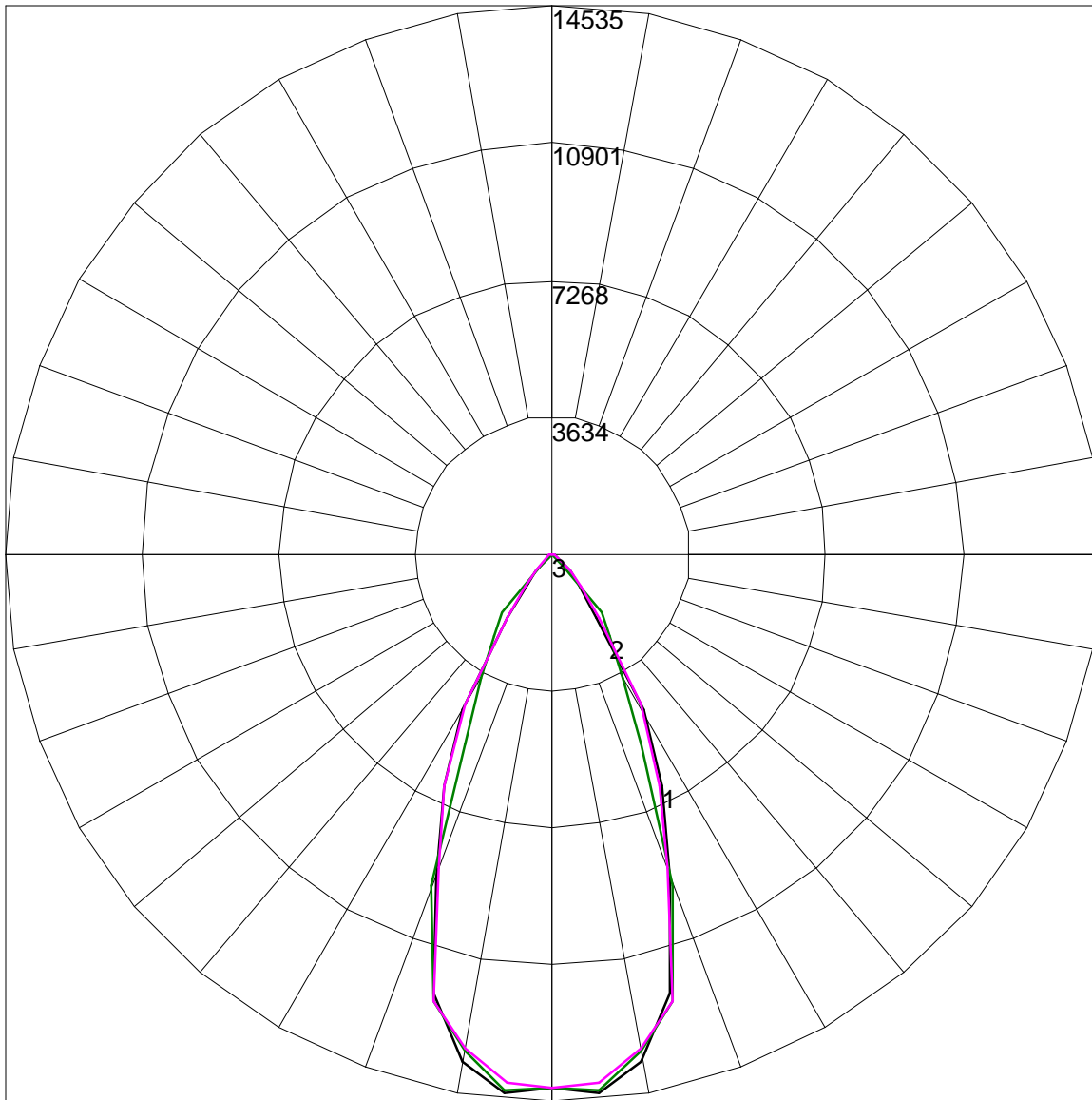
Effective Floor Cavity Reflectance 0.20

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	109	107	111	109	107	105	105	103	102	101	100	99	98	97	96	94
2	109	104	100	97	107	103	99	96	99	97	94	96	94	92	94	92	90	89
3	104	98	93	90	102	96	92	89	94	90	87	91	89	86	89	87	85	83
4	99	92	87	83	97	91	86	82	89	85	82	87	83	81	85	82	80	78
5	94	87	81	77	93	86	81	77	84	80	76	82	79	76	81	78	75	74
6	90	82	76	72	89	81	76	72	80	75	72	78	74	71	77	74	71	69
7	86	78	72	68	85	77	72	68	76	71	68	74	70	67	73	70	67	66
8	82	74	68	64	81	73	68	64	72	67	64	71	67	63	70	66	63	62
9	79	70	64	61	78	69	64	61	68	64	60	68	63	60	67	63	60	59
10	75	66	61	57	75	66	61	57	65	61	57	65	60	57	64	60	57	56

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POLAR GRAPH



Maximum Candela = 14535.089 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)