

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00424_46 ~ C1320YKFSXT-160LXXK-WDEX-MWI.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002

[TEST] SP-00424_46_M-160L

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

[MANUFAC] Spectrum Lighting

[ISSUEDATE] 8/16/2017

[UPDATE] 11/06/2017

[LUMCAT] C1320YKFSXT-160L-xxK-WD-EX-MWI

[LUMINAIRE] Nom. 15" Diam. x 25" H Cylinder Downlight, Yoke Mounted, Wide Beam

[OTHER] Integral Flared 3" Matte White (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] 52.4 Degree Beam Angle, 89.6 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	13699
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	159.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.90
Spacing Criterion (90-270)	0.90
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_46 ~ C1320YKFSXT-160LXXK-WDEX-MWI.IES****LUMINANCE DATA (cd/sq.m)**

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	13641	20732	13310
55	5202	5087	5215
65	5249	5621	5394
75	5716	5352	5678
85	2479	3424	3423

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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	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369
5	13620.399	13479.828	13817.911	13629.493	14022.447	13879.773	14026.073	13516.671	13767.508	13598.116
10	14960.214	14711.397	14919.165	15099.884	14846.007	14885.578	14969.685	15203.218	14797.321	14981.874
15	13454.864	13647.557	13745.924	13611.536	13821.192	13823.787	13693.334	13706.516	13722.200	13781.183
20	11282.656	11350.254	11317.244	11367.156	11251.086	11339.412	11313.756	11348.691	11299.188	11190.356
25	8421.313	8627.688	8593.646	8556.571	8660.975	8499.329	8647.285	8655.708	8411.803	8520.342
30	5730.810	5827.652	5955.873	5911.128	5945.586	6003.952	6222.424	6223.509	6436.445	6359.368
35	4421.124	4339.951	4376.125	4416.058	4144.540	4009.020	3843.224	3522.650	3392.805	3415.928
40	3340.568	3174.802	2937.604	2726.878	2509.130	2437.504	2441.809	2434.848	2477.991	2431.868
45	1100.707	1163.508	1363.631	1485.168	1680.456	1702.970	1644.936	1628.442	1632.115	1672.894
50	556.109	575.021	568.914	586.286	597.497	695.225	765.603	842.657	838.368	864.941
55	340.494	322.268	334.988	328.975	329.021	336.736	331.708	327.042	336.759	332.940
60	264.018	280.203	273.080	280.719	283.398	296.542	285.939	283.699	283.237	290.405
65	253.161	252.629	252.968	261.346	265.496	263.810	273.227	260.445	265.180	271.078
70	228.482	230.931	221.845	231.439	222.707	217.409	221.329	227.751	216.147	223.916
75	168.822	160.984	164.472	168.045	160.198	173.458	153.222	171.733	152.106	158.066
80	84.792	87.002	95.226	93.047	97.821	98.290	93.909	95.988	93.131	91.961
85	24.655	32.232	32.964	34.265	36.074	38.130	36.136	34.665	33.942	34.057
90	1.879	1.840	1.063	1.409	0.654	0.862	0.346	0.701	0.470	0.978

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	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369	13805.369
5	13603.597	13810.073	13823.595	13772.920	13600.855	13768.609	13824.641	13919.013	13844.245
10	15285.863	14890.575	14914.754	14860.829	14828.529	14964.773	15012.613	14831.402	15124.108
15	13557.175	13645.594	13880.743	13486.974	13926.057	13695.682	13529.815	13851.290	13664.704
20	11249.253	11142.747	11346.797	11278.713	11222.457	11382.201	11447.597	11266.178	11249.669
25	8646.014	8500.315	8589.465	8663.062	8556.348	8489.573	8461.845	8669.445	8538.668
30	6354.587	6275.715	6128.938	5995.081	5856.628	5920.961	5845.878	5781.645	5750.052
35	3466.779	3635.432	3806.980	4068.772	4227.939	4351.316	4379.929	4448.174	4306.279
40	2409.584	2428.973	2385.622	2433.708	2532.869	2651.764	2965.516	3213.025	3331.058
45	1639.661	1660.497	1662.923	1643.580	1622.629	1545.544	1369.191	1179.101	1074.050
50	840.232	874.905	827.904	709.170	583.352	579.502	556.641	576.199	601.586
55	343.697	346.100	329.768	339.524	337.337	330.453	331.508	328.690	341.364
60	287.210	288.311	280.218	290.151	285.139	281.635	269.669	275.183	262.662
65	270.185	266.489	263.017	260.614	253.176	265.311	259.536	254.362	260.137
70	205.320	217.810	220.951	216.593	226.911	226.904	227.627	233.194	212.905
75	152.036	165.334	166.189	152.876	151.582	164.264	176.445	169.492	167.706
80	93.193	92.061	94.864	94.071	97.282	88.227	88.003	86.001	94.956
85	31.555	36.321	30.400	35.682	34.111	34.173	31.839	36.991	34.042
90	2.071	1.871	0.262	0.354	0.832	0.354	0.708	0.654	0.701

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Zone	Lumens	%Lamp	%Fixt
0-20	5116.5	N.A.	37.30
0-30	9049.35	N.A.	66.10
0-40	11643.63	N.A.	85.00
0-60	13231.13	N.A.	96.60
0-80	13655.25	N.A.	99.70
0-90	13699.29	N.A.	100.00
10-90	12343.05	N.A.	90.10
20-40	6527.13	N.A.	47.60
20-50	7749.16	N.A.	56.60
40-70	1842.5	N.A.	13.40
60-80	424.12	N.A.	3.10
70-80	169.11	N.A.	1.20
80-90	44.04	N.A.	0.30
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	13699.29	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	1356.25
10-20	3760.26
20-30	3932.85
30-40	2594.28
40-50	1222.02
50-60	365.47
60-70	255.00
70-80	169.11
80-90	44.04
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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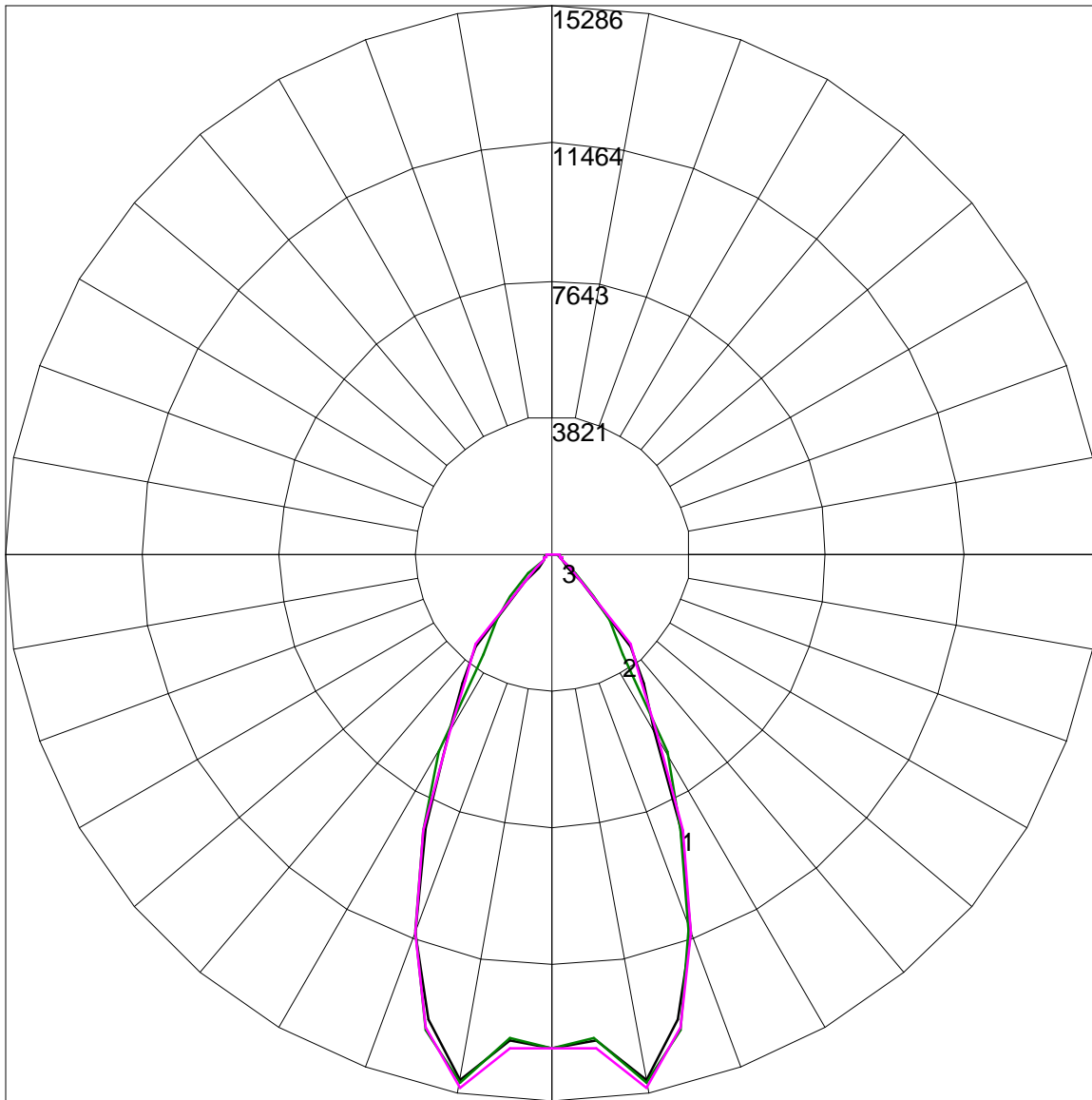
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	107	101	97	93	104	100	96	92	96	93	90	93	91	88	91	88	86	85
3	101	94	89	84	99	93	88	84	90	86	82	87	84	81	85	82	80	78
4	95	87	81	77	94	86	81	76	84	79	76	82	78	75	80	77	74	72
5	90	81	75	71	89	81	75	70	79	74	70	77	73	69	75	72	68	67
6	86	76	70	65	84	75	69	65	74	69	65	72	68	64	71	67	64	62
7	81	71	65	61	80	71	65	61	69	64	60	68	63	60	67	63	60	58
8	77	67	61	57	76	67	61	57	65	60	56	64	60	56	63	59	56	54
9	73	63	57	53	72	63	57	53	62	57	53	61	56	53	60	56	52	51
10	70	60	54	50	69	59	54	50	59	53	50	58	53	49	57	53	49	48

POLAR GRAPH



Maximum Candela = 15285.863 Located At Horizontal Angle = 50, Vertical Angle = 10

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

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

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