

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P253597

Luminaire Tested: **J3-UL-60L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253597  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-60L83050-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6353.0 lumens  
Efficiency: N/A  
Efficacy: 140.9 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.36 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

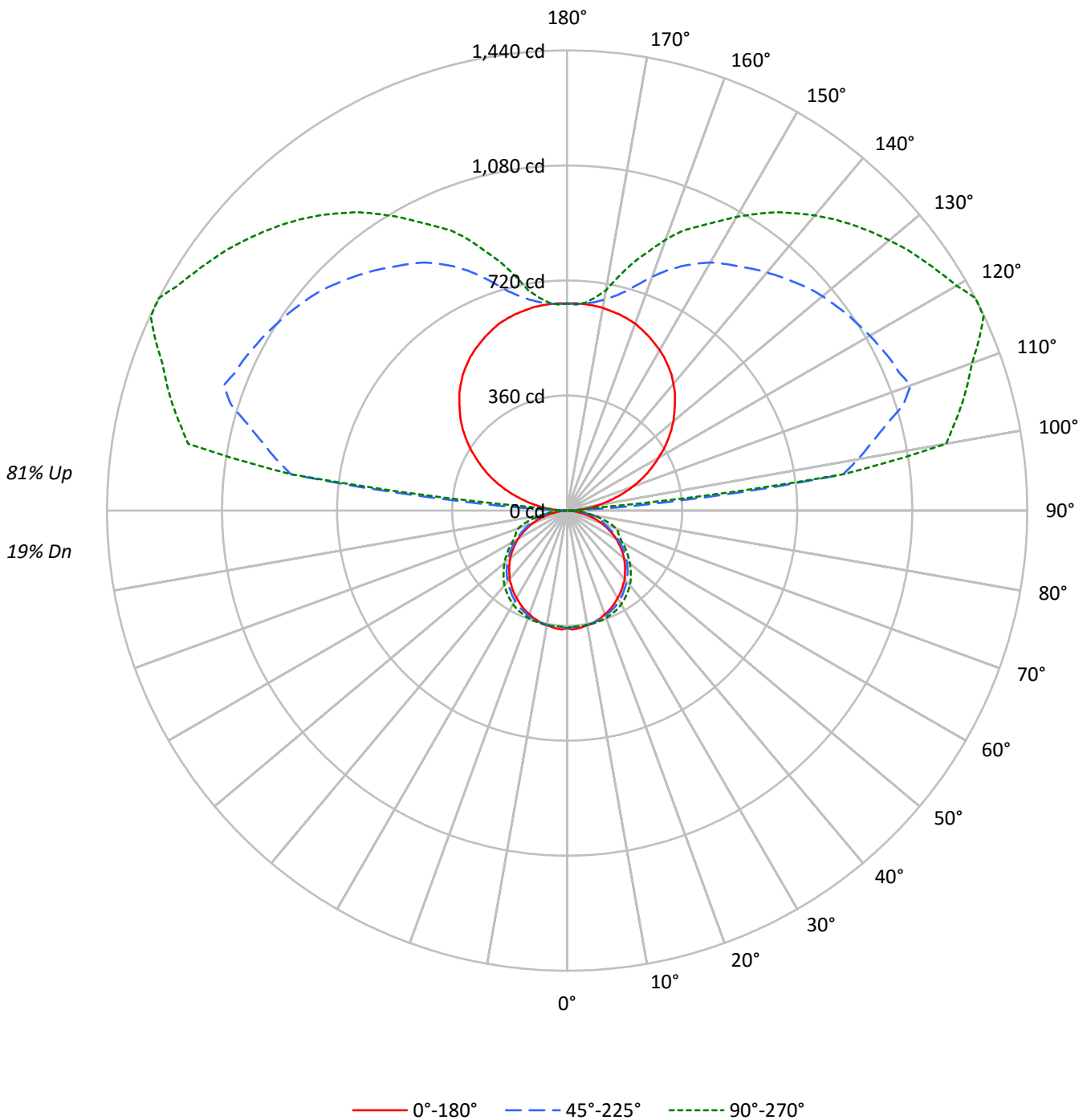
Input Watts (W): 45.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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
RCR																		
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	27	27	27	19
1	91	86	82	79	80	76	73	70	57	55	53	40	39	37	24	23	23	15
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5
9	45	34	26	22	40	30	24	19	23	18	15	16	13	11	10	8	7	5
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2968	2968	2968
5°	3000	2960	2949
10°	2983	2972	2983
15°	2978	2989	3020
20°	2963	3017	3072
25°	2959	3027	3117
30°	2943	3038	3155
35°	2949	3036	3186
40°	2953	3047	3221
45°	2924	3054	3214
50°	2914	3042	3216
55°	2891	3033	3212
60°	2866	2989	3194
65°	2760	2955	3391
70°	2662	2962	3831
75°	2452	3400	3877
80°	2120	3477	3770
85°	1649	3872	4344



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.9	0.5
10°-20°	101.6	1.6
20°-30°	157.3	2.5
30°-40°	194.2	3.1
40°-50°	206.8	3.3
50°-60°	193.0	3.0
60°-70°	157.3	2.5
70°-80°	108.7	1.7
80°-90°	42.4	0.7
90°-100°	379.6	6.0
100°-110°	958.9	15.1
110°-120°	992.3	15.6
120°-130°	883.7	13.9
130°-140°	736.2	11.6
140°-150°	561.0	8.8
150°-160°	377.6	5.9
160°-170°	204.7	3.2
170°-180°	62.8	1.0
0°-30°	293.7	4.6
0°-40°	487.9	7.7
0°-60°	887.7	14.0
0°-90°	1196.2	18.8
90°-120°	2330.8	36.7
90°-150°	4511.7	71.0
90°-180°	5157.0	81.2
0°-180°	6353.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	370	368	365	366	364	35
15°	356	358	358	361	361	101
25°	332	336	340	347	350	153
35°	299	302	308	320	323	187
45°	256	260	268	276	282	198
55°	205	209	216	222	228	184
65°	144	148	155	169	178	144
75°	79	84	109	123	124	83
85°	18	33	42	47	47	21
90°	2	4	4	2	2	6
95°	53	416	326	52	51	53
105°	157	662	1032	1220	1278	167
115°	276	683	1117	1388	1438	272
125°	384	700	1070	1297	1363	343
135°	477	720	1009	1203	1264	368
145°	552	708	933	1084	1140	345
155°	602	672	843	950	983	278
165°	635	653	710	780	804	179
175°	648	649	650	657	653	62
180°	648	648	648	648	648	



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CATALOG NUMBER: J3-UL-60L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	367.7	367.7	367.7	367.7	367.7
2.5°	372.8	367.7	365.2	366.4	363.9
5°	370.2	367.7	365.2	366.4	363.9
7.5°	367.7	366.4	363.9	366.4	363.9
10°	363.9	363.9	362.6	365.2	363.9
12.5°	362.6	361.4	361.4	363.9	362.6
15°	356.3	357.6	357.6	361.4	361.4
17.5°	352.5	353.7	355.0	360.1	360.1
20°	344.9	348.7	351.2	357.6	357.6
22.5°	339.8	342.3	344.9	352.5	353.7
25°	332.2	336.0	339.8	347.4	349.9
27.5°	324.6	328.4	333.5	342.3	344.9
30°	315.7	320.8	325.9	334.7	338.5
32.5°	308.1	311.9	318.2	328.4	330.9
35°	299.2	301.8	308.1	319.5	323.3
37.5°	289.1	291.6	299.2	309.4	314.4
40°	280.2	282.7	289.1	299.2	305.6
42.5°	267.5	271.3	278.9	287.8	294.2
45°	256.1	259.9	267.5	276.4	281.5
47.5°	244.7	248.5	254.9	263.7	268.8
50°	232.0	235.8	242.2	251.0	256.1
52.5°	219.3	223.2	229.5	237.1	242.2
55°	205.4	209.2	215.5	221.9	228.2
57.5°	191.5	195.3	200.3	207.9	214.3
60°	177.5	180.0	185.1	194.0	197.8
62.5°	162.3	164.8	169.9	178.8	187.7
65°	144.5	148.3	154.7	168.6	177.5
67.5°	129.3	131.9	138.2	158.5	172.4
70°	112.8	116.6	125.5	154.7	162.3
72.5°	96.4	100.2	116.6	142.0	145.8
75°	78.6	83.7	109.0	123.0	124.3
77.5°	62.1	68.5	93.8	101.4	102.7
80°	45.6	57.1	74.8	79.9	81.1
82.5°	30.4	48.2	55.8	62.1	62.1
85°	17.8	33.0	41.8	46.9	46.9
87.5°	10.1	21.6	31.7	36.8	35.5
90°	2.5	3.8	3.8	2.5	2.5
92.5°	29.2	92.6	25.4	24.1	24.1
95°	53.3	415.9	325.9	52.0	50.7
97.5°	76.1	504.6	871.1	1053.6	869.8
100°	101.4	609.9	924.3	1142.4	1204.5
102.5°	129.3	646.6	975.0	1174.1	1240.0
105°	157.2	661.9	1032.1	1219.7	1278.1
107.5°	187.7	672.0	1103.1	1256.5	1313.6
110°	218.1	677.1	1143.7	1302.1	1347.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	247.2	680.9	1125.9	1354.1	1394.7
115°	276.4	683.4	1117.0	1388.4	1437.8
117.5°	303.0	687.2	1105.6	1356.7	1440.4
120°	329.7	691.0	1094.2	1335.1	1407.4
122.5°	358.8	696.1	1081.5	1317.4	1384.6
125°	384.2	699.9	1070.1	1297.1	1363.0
127.5°	409.5	703.7	1056.2	1275.5	1341.5
130°	433.6	712.6	1043.5	1254.0	1316.1
132.5°	455.2	717.6	1028.3	1229.9	1290.7
135°	476.7	720.2	1009.3	1203.3	1264.1
137.5°	499.6	718.9	991.5	1177.9	1236.2
140°	517.3	717.6	972.5	1147.5	1205.8
142.5°	536.3	713.8	953.5	1117.0	1172.8
145°	551.5	707.5	933.2	1084.1	1139.9
147.5°	566.8	699.9	915.4	1049.8	1100.5
150°	579.4	688.5	896.4	1013.1	1061.2
152.5°	590.8	679.6	871.1	980.1	1019.4
155°	602.3	672.0	843.2	949.7	982.6
157.5°	612.4	666.9	812.7	912.9	948.4
160°	622.5	660.6	778.5	873.6	902.8
162.5°	628.9	656.8	743.0	826.7	850.8
165°	635.2	653.0	710.0	779.8	803.9
167.5°	639.0	650.4	687.2	730.3	751.9
170°	644.1	649.2	669.5	694.8	699.9
172.5°	646.6	649.2	658.0	670.7	672.0
175°	647.9	649.2	650.4	656.8	653.0
177.5°	649.2	650.4	646.6	650.4	645.4
180°	647.9	647.9	647.9	647.9	647.9

(END OF REPORT)