

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: P253561

Luminaire Tested: **J3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-20L83050-1D-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: 2465.6 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

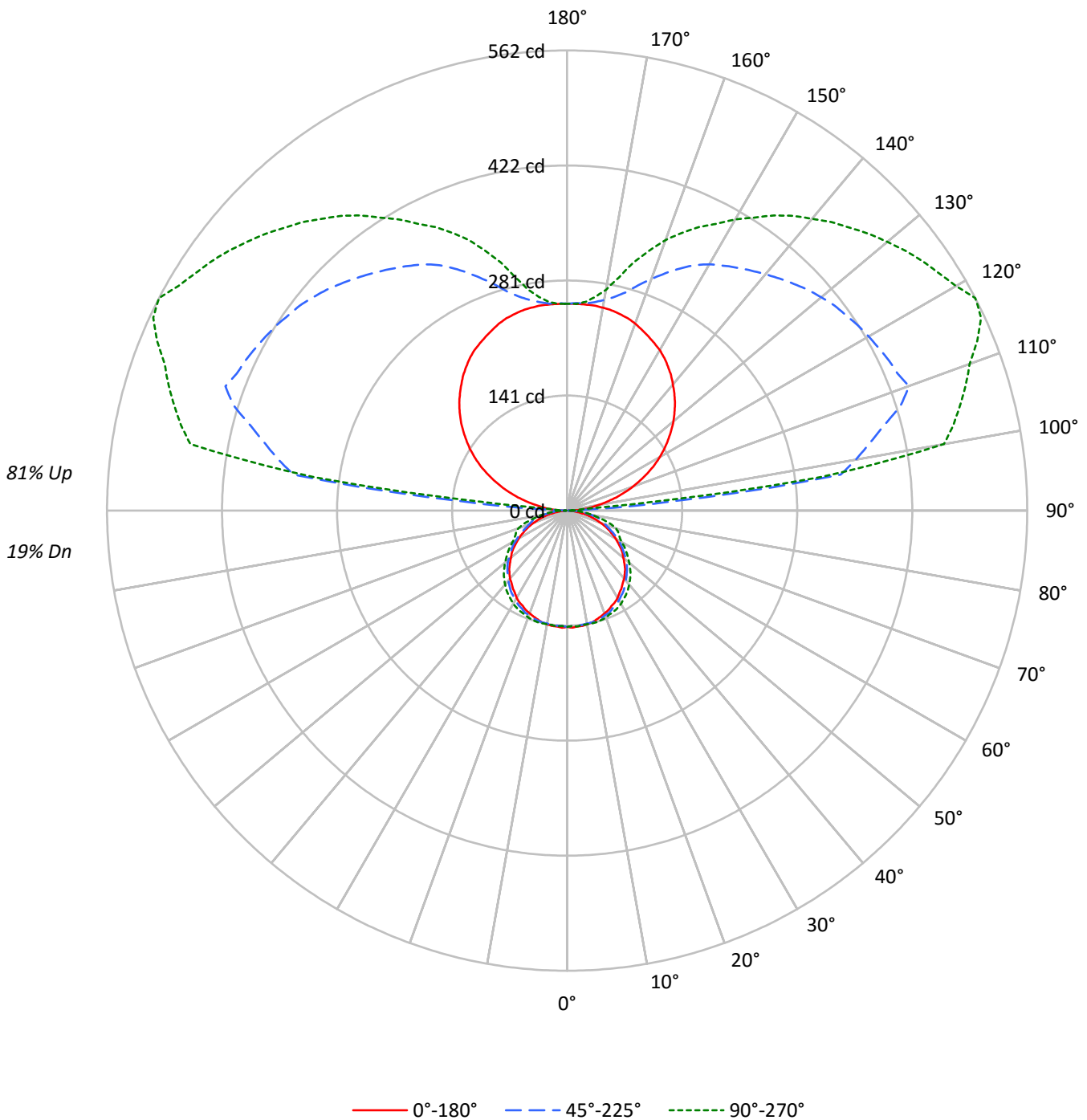
Input Watts (W): 16.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P253561

CATALOG NUMBER: J3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P253561

CATALOG NUMBER: J3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

**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	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	19	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°	1147	1147	1147
5°	1152	1143	1152
10°	1156	1148	1156
15°	1153	1161	1178
20°	1149	1167	1193
25°	1144	1172	1210
30°	1148	1177	1227
35°	1141	1183	1235
40°	1142	1176	1242
45°	1142	1177	1250
50°	1124	1177	1242
55°	1126	1170	1244
60°	1104	1156	1240
65°	1066	1146	1328
70°	1020	1168	1492
75°	951	1347	1510
80°	781	1320	1469
85°	685	1464	1658



TEST NUMBER: P253561

CATALOG NUMBER: J3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.5	0.5
10°-20°	39.3	1.6
20°-30°	61.0	2.5
30°-40°	75.2	3.1
40°-50°	80.2	3.3
50°-60°	74.8	3.0
60°-70°	61.3	2.5
70°-80°	42.2	1.7
80°-90°	16.4	0.7
90°-100°	146.8	6.0
100°-110°	371.8	15.1
110°-120°	385.4	15.6
120°-130°	343.6	13.9
130°-140°	285.9	11.6
140°-150°	217.6	8.8
150°-160°	146.5	5.9
160°-170°	79.7	3.2
170°-180°	24.5	1.0
0°-30°	113.8	4.6
0°-40°	189.1	7.7
0°-60°	344.1	14.0
0°-90°	463.9	18.8
90°-120°	904.0	36.7
90°-150°	1751.0	71.0
90°-180°	2002.0	81.2
0°-180°	2465.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	142	142	142	142	142	
5°	142	142	141	142	142	14
15°	138	139	139	140	141	39
25°	128	130	132	135	136	59
35°	116	117	120	124	125	72
45°	100	101	103	107	110	77
55°	80	81	83	86	88	71
65°	56	58	60	66	70	55
75°	30	33	43	47	48	32
85°	7	13	16	18	18	8
90°	1	1	1	1	1	2
95°	21	162	128	20	20	21
105°	62	257	400	473	497	65
115°	108	265	434	539	558	107
125°	150	272	416	504	530	135
135°	186	280	392	468	488	144
145°	215	275	362	421	440	134
155°	235	261	326	368	382	108
165°	248	255	276	303	314	70
175°	253	253	254	256	256	24
180°	253	253	253	253	253	



TEST NUMBER: P253561

CATALOG NUMBER: J3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	142.1	142.1	142.1	142.1	142.1
2.5°	143.1	143.1	141.0	142.1	141.0
5°	142.1	142.1	141.0	142.1	142.1
7.5°	142.1	142.1	141.0	142.1	141.0
10°	141.0	141.0	140.0	141.0	141.0
12.5°	140.0	140.0	140.0	141.0	141.0
15°	137.9	138.9	138.9	140.0	141.0
17.5°	135.8	136.8	137.9	138.9	140.0
20°	133.7	134.7	135.8	137.9	138.9
22.5°	131.6	132.6	134.7	136.8	136.8
25°	128.4	129.5	131.6	134.7	135.8
27.5°	126.3	127.4	129.5	132.6	133.7
30°	123.1	124.2	126.3	130.5	131.6
32.5°	118.9	121.0	123.1	127.4	128.4
35°	115.8	116.8	120.0	124.2	125.3
37.5°	111.6	112.6	115.8	120.0	122.1
40°	108.4	109.5	111.6	115.8	117.9
42.5°	104.2	105.3	107.4	111.6	113.7
45°	100.0	101.0	103.1	107.4	109.5
47.5°	94.7	96.8	98.9	102.1	104.2
50°	89.5	91.6	93.7	97.9	98.9
52.5°	85.3	86.3	88.4	91.6	93.7
55°	80.0	81.0	83.1	86.3	88.4
57.5°	73.7	75.8	77.9	81.0	83.1
60°	68.4	70.5	71.6	75.8	76.8
62.5°	62.1	64.2	66.3	69.5	72.6
65°	55.8	57.9	60.0	66.3	69.5
67.5°	50.5	51.6	53.7	62.1	67.4
70°	43.2	45.3	49.5	60.0	63.2
72.5°	36.8	38.9	45.3	54.7	56.8
75°	30.5	32.6	43.2	47.4	48.4
77.5°	24.2	26.3	36.8	38.9	38.9
80°	16.8	22.1	28.4	31.6	31.6
82.5°	11.6	18.9	22.1	24.2	24.2
85°	7.4	12.6	15.8	17.9	17.9
87.5°	4.2	8.4	12.6	13.7	13.7
90°	1.1	1.1	1.1	1.1	1.1
92.5°	11.6	33.7	9.5	9.5	9.5
95°	21.1	162.1	128.4	20.0	20.0
97.5°	29.5	196.8	336.8	416.8	311.5
100°	38.9	233.7	357.9	442.1	467.3
102.5°	49.5	250.5	377.9	455.7	483.1
105°	62.1	256.8	400.0	472.6	496.8
107.5°	73.7	260.0	427.3	487.3	510.5
110°	85.3	262.1	444.2	504.2	523.1



TEST NUMBER: P253561

CATALOG NUMBER: J3-UL-20L83050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	96.8	263.1	436.8	526.3	542.1
115°	108.4	265.2	433.6	538.9	557.8
117.5°	120.0	266.3	429.4	526.3	562.0
120°	130.5	268.4	425.2	518.9	548.4
122.5°	141.0	269.4	421.0	511.5	538.9
125°	150.5	271.6	415.7	504.2	530.5
127.5°	160.0	273.7	411.5	495.7	521.0
130°	169.5	276.8	405.2	487.3	510.5
132.5°	177.9	278.9	398.9	477.8	500.0
135°	186.3	280.0	391.5	468.4	488.4
137.5°	193.7	280.0	384.2	457.8	477.8
140°	201.0	278.9	376.8	446.3	465.2
142.5°	208.4	277.9	369.4	433.6	453.6
145°	214.7	274.7	362.1	421.0	440.0
147.5°	221.0	271.6	354.7	407.3	424.2
150°	226.3	267.3	347.3	392.6	410.5
152.5°	230.5	264.2	337.9	380.0	394.7
155°	234.7	261.0	326.3	368.4	382.1
157.5°	238.9	258.9	313.7	354.7	367.3
160°	243.1	257.9	301.0	338.9	351.5
162.5°	246.3	255.8	288.4	321.0	332.6
165°	248.4	254.7	275.8	303.1	313.7
167.5°	250.5	253.7	267.3	283.1	291.5
170°	251.6	252.6	261.0	269.4	273.7
172.5°	252.6	252.6	256.8	261.0	263.1
175°	252.6	252.6	253.7	255.8	255.8
177.5°	252.6	253.7	253.7	253.7	252.6
180°	252.6	252.6	252.6	252.6	252.6

(END OF REPORT)