

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: P253571

Luminaire Tested: **J3-UL-30L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-30L83050-1D-UNV-W2A-W-4 (4500K)  
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 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3198.3 lumens  
Efficiency: N/A  
Efficacy: 147.4 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

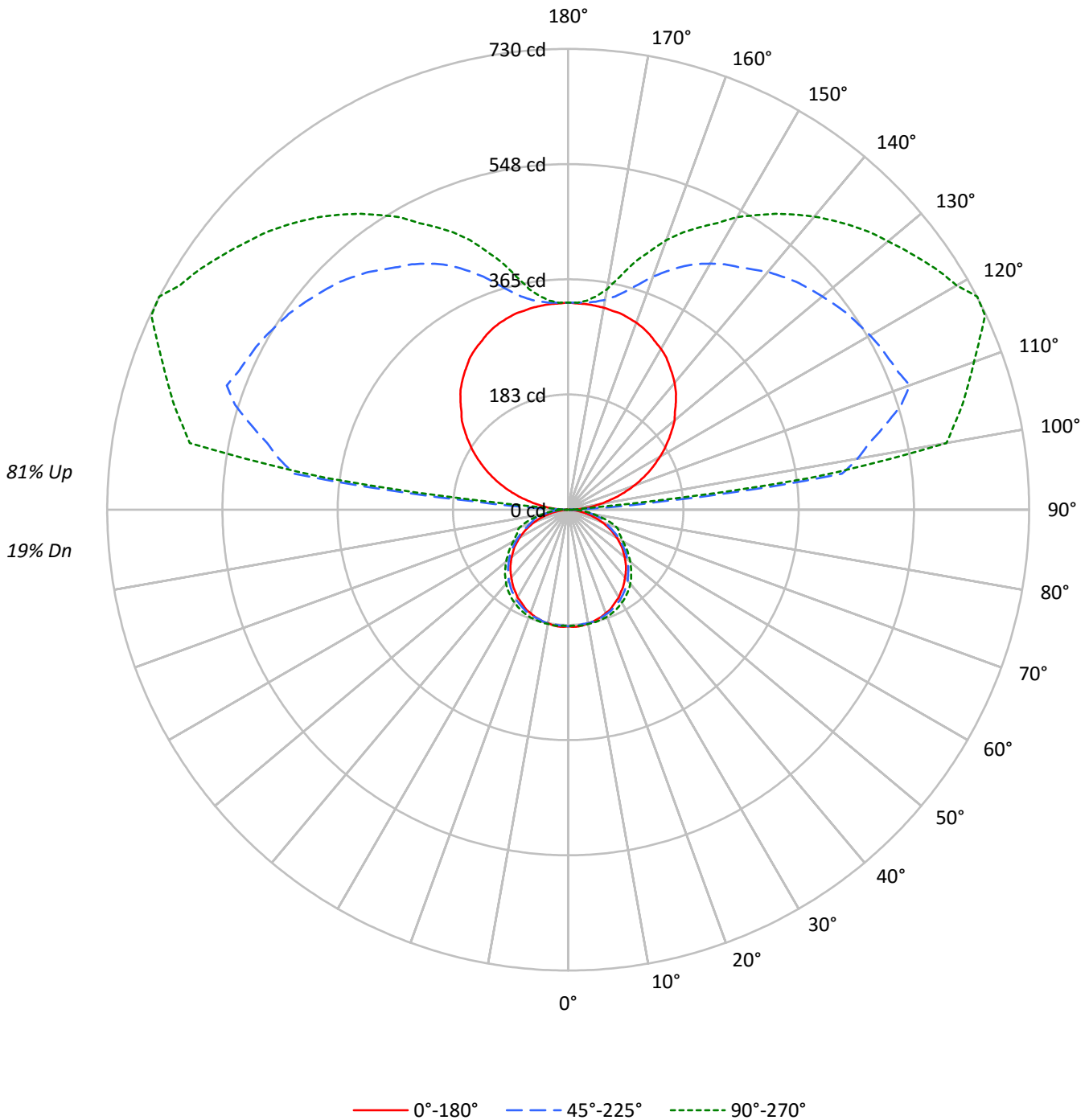
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	83	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°	1491	1491	1491
5°	1506	1489	1497
10°	1497	1497	1506
15°	1499	1499	1526
20°	1496	1514	1551
25°	1494	1522	1570
30°	1494	1534	1584
35°	1486	1538	1600
40°	1476	1544	1611
45°	1478	1539	1612
50°	1467	1533	1614
55°	1464	1524	1614
60°	1440	1508	1611
65°	1400	1480	1704
70°	1329	1504	1931
75°	1226	1722	1953
80°	1088	1729	1874
85°	889	1964	2167



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.6	0.5
10°-20°	51.0	1.6
20°-30°	79.2	2.5
30°-40°	97.9	3.1
40°-50°	104.3	3.3
50°-60°	97.2	3.0
60°-70°	79.3	2.5
70°-80°	54.4	1.7
80°-90°	21.3	0.7
90°-100°	186.9	5.8
100°-110°	483.2	15.1
110°-120°	501.0	15.7
120°-130°	445.3	13.9
130°-140°	371.1	11.6
140°-150°	282.9	8.8
150°-160°	190.7	6.0
160°-170°	103.3	3.2
170°-180°	31.8	1.0
0°-30°	147.7	4.6
0°-40°	245.7	7.7
0°-60°	447.2	14.0
0°-90°	602.2	18.8
90°-120°	1171.0	36.6
90°-150°	2270.3	71.0
90°-180°	2596.0	81.2
0°-180°	3198.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	185	185	185	185	185	
5°	186	185	184	184	185	18
15°	179	179	179	182	183	51
25°	168	169	171	175	176	77
35°	151	152	156	161	162	94
45°	130	132	135	140	141	100
55°	104	105	108	112	115	93
65°	73	75	78	85	89	72
75°	39	42	55	62	63	42
85°	10	17	21	23	23	11
90°	1	2	2	1	1	3
95°	26	209	148	26	26	27
105°	81	334	520	614	647	85
115°	140	345	562	701	728	138
125°	194	352	540	652	687	174
135°	241	363	511	606	636	186
145°	279	357	469	548	572	175
155°	306	341	425	480	494	141
165°	322	330	359	394	406	91
175°	327	328	329	331	332	31
180°	328	328	328	328	328	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	184.7	184.7	184.7	184.7	184.7
2.5°	185.8	185.8	183.7	183.7	183.7
5°	185.8	184.7	183.7	183.7	184.7
7.5°	184.7	184.7	182.6	183.7	184.7
10°	182.6	182.6	182.6	183.7	183.7
12.5°	181.6	181.6	181.6	182.6	183.7
15°	179.4	179.4	179.4	181.6	182.6
17.5°	177.3	177.3	178.4	180.5	181.6
20°	174.1	175.2	176.2	179.4	180.5
22.5°	172.0	172.0	174.1	177.3	178.4
25°	167.7	168.8	170.9	175.2	176.2
27.5°	163.5	164.6	167.7	172.0	173.1
30°	160.3	161.4	164.6	168.8	169.9
32.5°	155.0	157.1	160.3	165.6	166.7
35°	150.8	151.8	156.1	161.4	162.4
37.5°	145.5	147.6	150.8	156.1	158.2
40°	140.1	142.3	146.5	151.8	152.9
42.5°	134.8	137.0	140.1	145.5	147.6
45°	129.5	131.7	134.8	140.1	141.2
47.5°	123.2	125.3	128.5	133.8	134.8
50°	116.8	118.9	122.1	126.3	128.5
52.5°	110.4	112.5	115.7	120.0	121.0
55°	104.0	105.1	108.3	112.5	114.7
57.5°	96.6	98.7	100.9	105.1	107.2
60°	89.2	90.2	93.4	97.7	99.8
62.5°	80.7	82.8	86.0	90.2	94.5
65°	73.3	75.4	77.5	84.9	89.2
67.5°	64.8	66.9	70.1	79.6	87.1
70°	56.3	58.4	63.7	77.5	81.8
72.5°	47.8	49.9	58.4	71.1	73.3
75°	39.3	42.5	55.2	61.6	62.6
77.5°	30.8	34.0	46.7	49.9	51.0
80°	23.4	28.7	37.2	40.3	40.3
82.5°	15.9	24.4	28.7	30.8	31.9
85°	9.6	17.0	21.2	23.4	23.4
87.5°	5.3	10.6	14.9	18.0	17.0
90°	1.1	2.1	2.1	1.1	1.1
92.5°	14.9	43.5	12.7	11.7	11.7
95°	26.5	209.2	147.6	25.5	25.5
97.5°	38.2	255.9	437.4	514.9	387.5
100°	51.0	303.6	465.0	575.4	608.4
102.5°	64.8	325.9	488.4	591.4	626.4
105°	80.7	334.4	520.2	613.7	646.6
107.5°	95.6	339.7	553.1	633.8	664.6
110°	110.4	341.9	575.4	657.2	683.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	125.3	344.0	566.9	684.8	705.0
115°	140.1	345.1	561.6	700.7	728.3
117.5°	153.9	347.2	557.4	684.8	730.4
120°	167.7	349.3	552.1	672.1	710.3
122.5°	181.6	351.4	545.7	662.5	699.7
125°	194.3	352.5	540.4	651.9	686.9
127.5°	207.0	354.6	533.0	641.3	674.2
130°	219.8	358.9	525.5	629.6	661.4
132.5°	229.3	362.0	518.1	619.0	649.8
135°	241.0	363.1	510.7	606.2	636.0
137.5°	252.7	363.1	501.1	593.5	621.1
140°	262.2	362.0	491.6	578.6	606.2
142.5°	270.7	359.9	479.9	563.8	589.2
145°	279.2	356.7	469.3	547.8	572.3
147.5°	287.7	353.5	460.8	530.8	553.1
150°	294.1	349.3	450.2	512.8	535.1
152.5°	299.4	344.0	438.5	495.8	511.7
155°	305.8	340.8	424.7	479.9	493.7
157.5°	311.1	336.6	408.8	462.9	475.6
160°	315.3	334.4	392.8	440.6	454.4
162.5°	318.5	331.2	374.8	418.3	428.9
165°	321.7	330.2	358.9	393.9	405.6
167.5°	322.8	328.1	346.1	368.4	378.0
170°	324.9	328.1	337.6	350.4	354.6
172.5°	325.9	328.1	332.3	338.7	340.8
175°	327.0	328.1	329.1	331.2	332.3
177.5°	327.0	328.1	328.1	328.1	328.1
180°	328.1	328.1	328.1	328.1	328.1

(END OF REPORT)