

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: P253458

Luminaire Tested: **J3-CL-20L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253458  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-20L83050-1D-UNV-W2A-W-4 (4500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR 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: 2382.0 lumens  
Efficiency: N/A  
Efficacy: 140.1 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

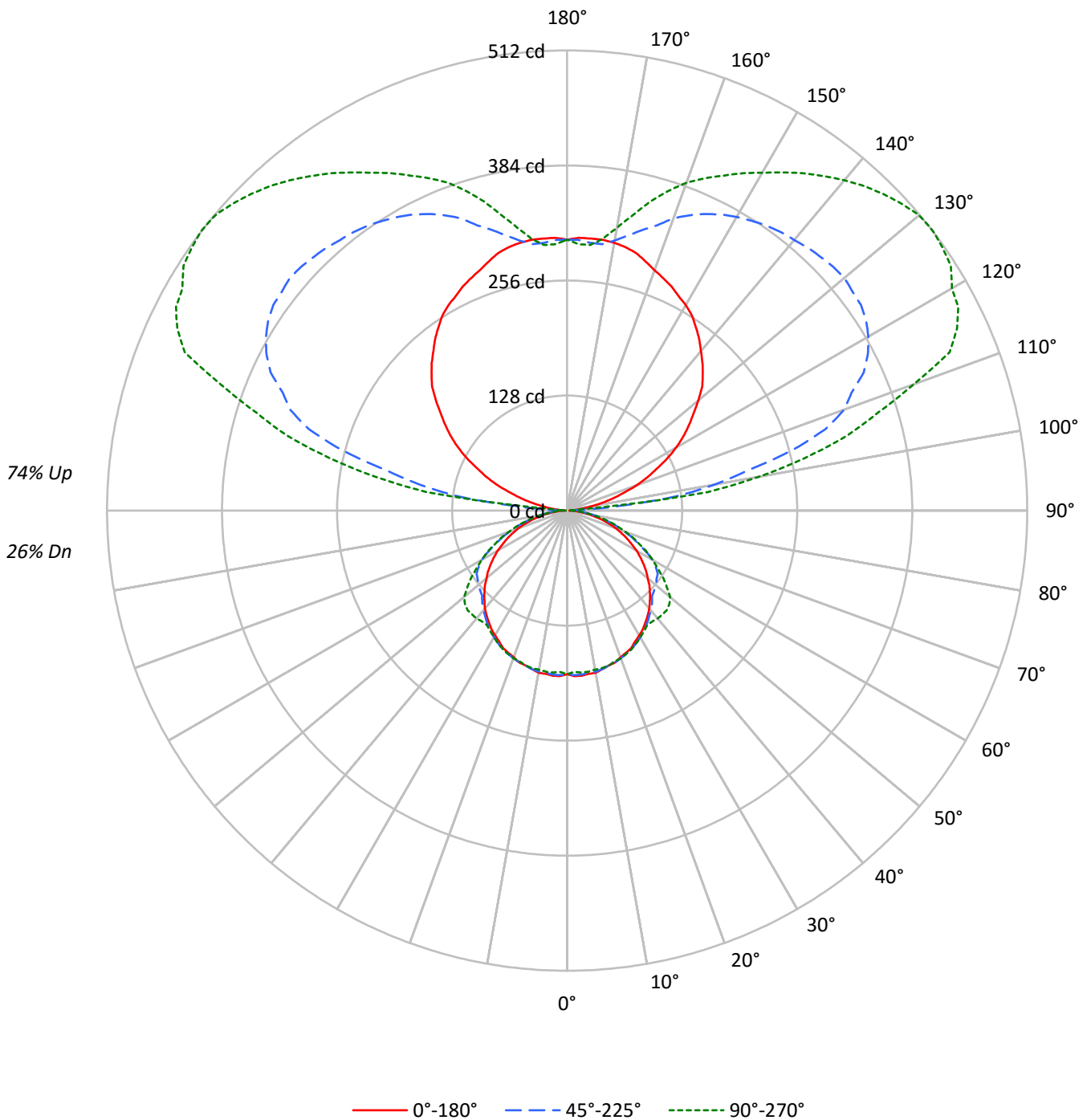
Input Watts (W): 17  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6

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

	0°	45°	90°
0°	1469	1469	1469
5°	1494	1485	1465
10°	1502	1492	1472
15°	1491	1491	1491
20°	1491	1502	1502
25°	1504	1514	1514
30°	1494	1517	1517
35°	1497	1521	1532
40°	1500	1525	1651
45°	1486	1528	1789
50°	1468	1620	1878
55°	1460	1731	1833
60°	1440	1771	1771
65°	1404	1681	1704
70°	1367	1593	1622
75°	1279	1503	1541
80°	1176	1455	1399
85°	1121	1565	1343



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.4	0.7
10°-20°	50.4	2.1
20°-30°	77.9	3.3
30°-40°	96.6	4.1
40°-50°	108.1	4.5
50°-60°	105.6	4.4
60°-70°	83.3	3.5
70°-80°	50.4	2.1
80°-90°	17.9	0.8
90°-100°	61.9	2.6
100°-110°	239.3	10.0
110°-120°	328.8	13.8
120°-130°	332.7	14.0
130°-140°	294.8	12.4
140°-150°	233.2	9.8
150°-160°	162.8	6.8
160°-170°	92.1	3.9
170°-180°	28.9	1.2
0°-30°	145.6	6.1
0°-40°	242.2	10.2
0°-60°	455.8	19.1
0°-90°	607.5	25.5
90°-120°	630.0	26.4
90°-150°	1490.6	62.6
90°-180°	1774.0	74.5
0°-180°	2382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	182	182	182	182	182	
5°	184	182	183	182	181	18
15°	178	177	178	178	178	51
25°	169	166	170	170	170	77
35°	152	152	154	156	156	95
45°	130	131	134	151	157	100
55°	104	105	123	130	130	93
65°	74	77	88	89	89	72
75°	41	48	48	49	49	43
85°	12	19	17	16	14	13
90°	2	7	6	1	1	2
95°	10	48	58	12	12	12
105°	53	171	259	299	323	56
115°	110	232	364	451	479	109
125°	165	268	399	486	510	148
135°	213	294	399	477	498	164
145°	250	301	387	444	458	156
155°	275	294	364	404	411	127
165°	297	295	323	351	356	83
175°	304	300	299	299	297	29
180°	301	301	301	301	301	



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CATALOG NUMBER: J3-CL-20L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	182.0	182.0	182.0	182.0	182.0
2.5°	184.4	182.0	183.2	182.0	179.6
5°	184.4	182.0	183.2	182.0	180.8
7.5°	183.2	182.0	182.0	180.8	180.8
10°	183.2	180.8	182.0	180.8	179.6
12.5°	180.8	179.6	180.8	179.6	179.6
15°	178.4	177.2	178.4	178.4	178.4
17.5°	177.2	174.8	177.2	177.2	176.0
20°	173.6	172.4	174.8	174.8	174.8
22.5°	171.2	170.0	172.4	172.4	172.4
25°	168.8	166.4	170.0	170.0	170.0
27.5°	164.0	164.0	166.4	167.6	166.4
30°	160.3	159.1	162.7	164.0	162.7
32.5°	156.7	155.5	159.1	160.3	159.1
35°	151.9	151.9	154.3	155.5	155.5
37.5°	147.1	147.1	149.5	150.7	155.5
40°	142.3	142.3	144.7	151.9	156.7
42.5°	136.2	136.2	139.8	150.7	156.7
45°	130.2	131.4	133.8	150.7	156.7
47.5°	124.2	125.4	131.4	149.5	154.3
50°	116.9	119.3	129.0	145.9	149.5
52.5°	110.9	112.1	125.4	139.8	139.8
55°	103.7	104.9	123.0	130.2	130.2
57.5°	96.4	97.6	116.9	119.3	119.3
60°	89.2	90.4	109.7	109.7	109.7
62.5°	80.8	83.2	98.9	100.1	100.1
65°	73.5	77.2	88.0	89.2	89.2
67.5°	65.1	71.1	78.4	79.6	79.6
70°	57.9	65.1	67.5	68.7	68.7
72.5°	49.4	56.7	57.9	59.1	59.1
75°	41.0	48.2	48.2	49.4	49.4
77.5°	32.5	38.6	39.8	39.8	39.8
80°	25.3	28.9	31.3	30.1	30.1
82.5°	18.1	22.9	22.9	22.9	21.7
85°	12.1	19.3	16.9	15.7	14.5
87.5°	7.2	16.9	9.6	8.4	8.4
90°	2.4	7.2	6.0	1.2	1.2
92.5°	4.8	12.1	6.0	4.8	3.6
95°	9.6	48.2	57.9	12.1	12.1
97.5°	18.1	80.8	124.2	147.1	157.9
100°	27.7	120.6	166.4	203.7	217.0
102.5°	39.8	145.9	204.9	252.0	271.2
105°	53.0	171.2	259.2	299.0	323.1
107.5°	66.3	190.5	301.4	346.0	362.9
110°	82.0	206.1	327.9	405.1	409.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	96.4	218.2	342.4	434.0	460.5
115°	109.7	231.5	364.1	450.9	478.6
117.5°	125.4	241.1	377.3	460.5	490.7
120°	139.8	249.5	387.0	472.6	494.3
122.5°	153.1	259.2	394.2	482.2	506.3
125°	165.2	267.6	399.0	485.8	509.9
127.5°	177.2	274.9	400.2	487.0	512.4
130°	190.5	282.1	402.7	485.8	511.2
132.5°	203.7	289.3	401.4	482.2	505.1
135°	213.4	294.2	399.0	477.4	497.9
137.5°	223.0	297.8	396.6	470.2	489.5
140°	231.5	300.2	393.0	461.7	479.8
142.5°	241.1	301.4	390.6	453.3	469.0
145°	249.5	301.4	387.0	443.6	458.1
147.5°	258.0	300.2	382.2	434.0	446.1
150°	264.0	297.8	377.3	424.4	434.0
152.5°	268.8	295.4	371.3	413.5	423.1
155°	274.9	294.2	364.1	403.9	411.1
157.5°	279.7	294.2	355.6	393.0	400.2
160°	284.5	294.2	346.0	382.2	388.2
162.5°	290.5	294.2	332.7	366.5	372.5
165°	296.6	295.4	323.1	350.8	355.6
167.5°	300.2	295.4	313.4	331.5	336.3
170°	302.6	297.8	305.0	318.3	319.5
172.5°	303.8	300.2	299.0	305.0	305.0
175°	303.8	300.2	299.0	299.0	296.6
177.5°	303.8	301.4	301.4	300.2	296.6
180°	301.4	301.4	301.4	301.4	301.4

(END OF REPORT)