

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: P253513

Luminaire Tested: **J3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253513  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-FL-30L83050-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED 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: 3038.9 lumens  
Efficiency: N/A  
Efficacy: 143.3 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.48  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

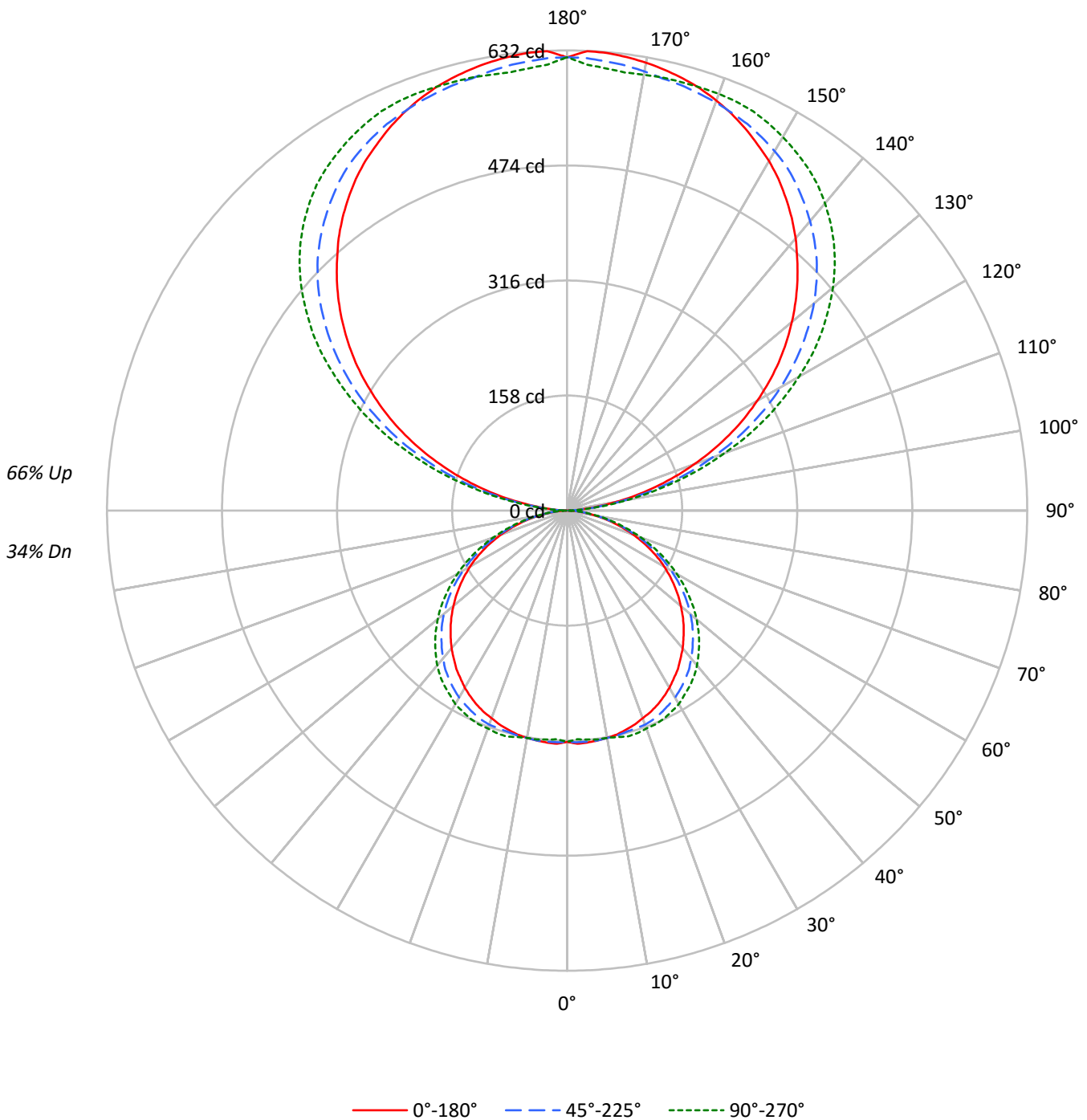
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	103	93	93	93	93	74	74	74	57	57	57	41	41	41	34
1	94	90	86	82	85	81	78	75	65	62	60	50	48	47	36	35	34	28
2	85	78	72	67	77	71	65	61	56	53	50	43	41	39	31	30	29	23
3	78	68	61	55	70	62	56	51	50	45	41	38	35	33	28	26	24	19
4	71	60	52	47	64	55	48	43	44	39	35	34	30	28	25	22	21	16
5	65	53	45	40	58	48	42	36	39	34	30	30	27	24	22	20	18	14
6	60	48	40	34	53	43	36	31	35	30	26	27	23	21	20	17	15	12
7	55	43	35	30	49	39	32	27	32	26	23	25	21	18	18	16	14	11
8	51	39	31	26	46	35	29	24	29	24	20	22	19	16	16	14	12	10
9	47	35	28	23	43	32	26	21	26	21	18	20	17	14	15	13	11	9
10	44	32	25	20	40	29	23	19	24	19	16	19	15	13	14	12	10	8

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

	0°	45°	90°
0°	2565	2565	2565
5°	2592	2581	2558
10°	2599	2599	2599
15°	2604	2628	2685
20°	2607	2689	2736
25°	2619	2727	2807
30°	2619	2765	2862
35°	2614	2788	2897
40°	2602	2795	2924
45°	2585	2787	2927
50°	2561	2776	2912
55°	2533	2736	2870
60°	2486	2666	2808
65°	2409	2565	2711
70°	2271	2417	2542
75°	2084	2211	2318
80°	1808	1934	2004
85°	1445	1510	1584



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.3	1.0
10°-20°	89.2	2.9
20°-30°	140.4	4.6
30°-40°	175.4	5.8
40°-50°	187.0	6.2
50°-60°	172.5	5.7
60°-70°	132.4	4.4
70°-80°	75.0	2.5
80°-90°	19.8	0.7
90°-100°	31.9	1.0
100°-110°	149.9	4.9
110°-120°	271.8	8.9
120°-130°	349.1	11.5
130°-140°	371.3	12.2
140°-150°	341.7	11.2
150°-160°	270.6	8.9
160°-170°	171.8	5.7
170°-180°	58.9	1.9
0°-30°	259.9	8.6
0°-40°	435.3	14.3
0°-60°	794.8	26.2
0°-90°	1022.1	33.6
90°-120°	453.5	14.9
90°-150°	1515.6	49.9
90°-180°	2017.0	66.4
0°-180°	3038.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	318	318	318	318	318	
5°	320	317	318	318	316	30
15°	312	310	314	320	321	88
25°	294	295	306	312	315	135
35°	265	270	283	290	294	166
45°	226	232	244	252	256	175
55°	180	185	194	201	204	161
65°	126	129	134	139	142	124
75°	67	68	71	74	74	71
85°	16	16	16	17	17	18
90°	1	1	1	0	0	2
95°	21	22	24	25	27	27
105°	126	131	143	152	156	133
115°	246	256	278	295	303	242
125°	355	366	394	415	427	316
135°	447	454	485	506	518	345
145°	524	522	548	565	576	328
155°	579	571	586	598	605	267
165°	614	605	605	607	609	174
175°	631	623	619	614	610	60
180°	623	623	623	623	623	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	317.7	317.7	317.7	317.7	317.7
2.5°	320.5	317.7	318.5	318.5	314.4
5°	319.8	317.0	318.5	317.7	315.7
7.5°	318.5	316.4	318.5	318.5	317.0
10°	317.0	315.1	317.0	317.7	317.0
12.5°	315.1	313.0	316.4	317.7	318.5
15°	311.6	310.2	314.4	319.8	321.3
17.5°	308.3	307.6	313.7	319.8	320.5
20°	303.4	303.4	313.0	317.7	318.5
22.5°	299.4	299.4	310.2	315.1	317.7
25°	294.0	294.6	306.2	312.4	315.1
27.5°	287.8	289.9	301.4	308.3	311.0
30°	281.0	284.4	296.6	303.4	307.0
32.5°	272.9	277.5	289.9	296.6	300.0
35°	265.2	270.1	282.9	289.9	294.0
37.5°	255.8	261.8	274.8	281.6	286.5
40°	246.9	253.1	265.2	272.9	277.5
42.5°	236.6	243.4	255.0	262.6	267.3
45°	226.4	232.5	244.1	251.7	256.4
47.5°	215.5	221.7	233.3	240.1	244.7
50°	203.9	210.7	221.0	227.8	231.9
52.5°	192.2	198.4	208.0	214.9	218.9
55°	180.0	185.4	194.4	200.6	203.9
57.5°	167.0	172.5	180.0	186.2	189.6
60°	154.0	158.1	165.1	171.1	173.9
62.5°	140.4	144.0	150.0	154.9	158.1
65°	126.1	128.9	134.3	139.1	141.9
67.5°	111.2	113.9	118.6	122.7	124.8
70°	96.2	98.8	102.4	105.6	107.7
72.5°	81.7	83.2	86.6	89.4	90.7
75°	66.8	68.2	70.9	73.6	74.3
77.5°	53.2	53.8	56.0	57.4	58.0
80°	38.9	40.3	41.6	42.2	43.1
82.5°	26.6	27.3	27.9	28.6	29.2
85°	15.6	16.3	16.3	17.1	17.1
87.5°	6.8	7.5	7.5	7.5	7.5
90°	0.7	0.7	0.7	0.0	0.0
92.5°	6.8	6.8	7.5	8.1	8.9
95°	21.1	21.8	23.9	25.2	26.6
97.5°	42.2	43.7	47.7	51.2	52.5
100°	68.2	70.9	77.1	81.7	83.9
102.5°	96.2	100.2	109.2	115.9	119.3
105°	125.5	131.0	143.2	152.1	156.2
107.5°	155.5	162.4	178.0	188.2	193.7
110°	185.4	194.4	211.4	225.0	229.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	215.5	225.0	245.5	260.5	268.0
115°	245.5	255.8	277.5	294.6	302.8
117.5°	274.2	285.0	308.9	328.1	335.5
120°	301.4	313.0	339.0	358.7	367.6
122.5°	328.7	339.7	366.9	388.0	399.0
125°	354.6	365.5	393.5	415.3	426.9
127.5°	379.2	389.3	418.8	441.2	452.1
130°	403.0	412.6	442.5	464.5	476.7
132.5°	425.6	434.4	464.5	485.6	498.6
135°	447.4	454.2	484.9	506.0	518.3
137.5°	467.8	472.6	502.7	523.8	535.4
140°	488.3	489.7	519.0	538.7	551.0
142.5°	506.7	506.0	534.0	553.0	564.7
145°	523.8	521.7	548.3	565.3	575.6
147.5°	540.1	535.4	560.5	575.0	584.4
150°	554.4	548.3	570.1	584.4	592.6
152.5°	566.6	559.8	578.3	591.2	599.4
155°	579.0	570.9	585.8	598.0	604.9
157.5°	589.9	579.6	591.2	602.1	607.7
160°	599.4	589.3	596.7	604.9	609.1
162.5°	607.7	597.4	600.8	605.5	609.1
165°	614.5	604.9	604.9	606.9	609.1
167.5°	619.9	611.7	607.7	608.3	609.1
170°	624.7	616.5	612.3	608.3	607.7
172.5°	628.1	619.9	616.5	611.0	606.9
175°	630.8	623.4	619.1	614.5	609.7
177.5°	631.5	625.3	621.9	617.2	613.1
180°	622.6	622.6	622.6	622.6	622.6

(END OF REPORT)