

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: P253466

Luminaire Tested: **J3-CL-40L83050-1D-UNV-W2A-W-4 (5000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253466  
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-40L83050-1D-UNV-W2A-W-4 (5000K)  
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 5000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4080.6 lumens  
Efficiency: N/A  
Efficacy: 139.3 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

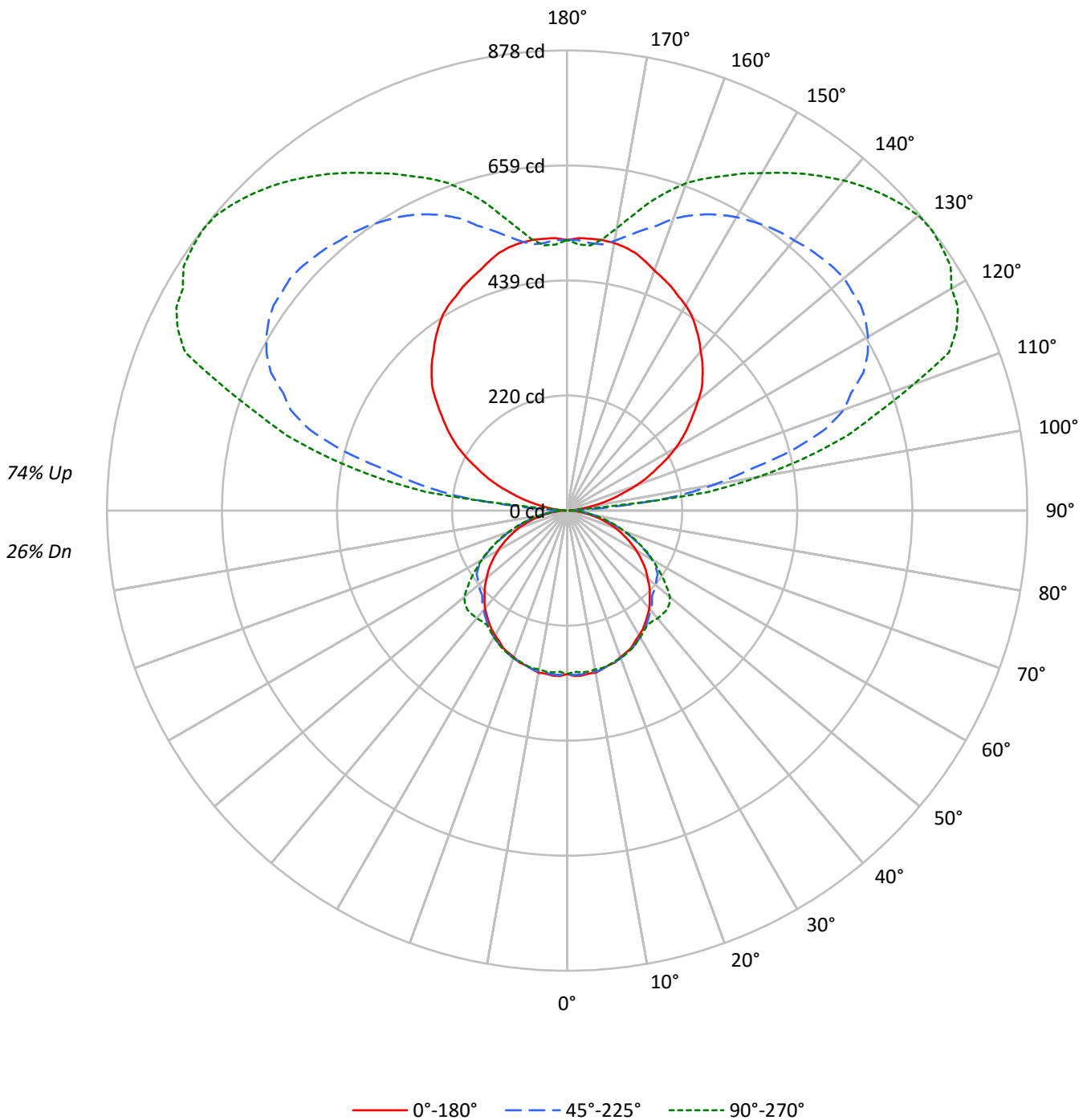
Input Watts (W): 29.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2517	2517	2517
5°	2561	2544	2511
10°	2573	2556	2522
15°	2555	2555	2555
20°	2555	2573	2573
25°	2575	2594	2594
30°	2561	2599	2599
35°	2564	2605	2625
40°	2568	2611	2830
45°	2546	2617	3065
50°	2516	2776	3216
55°	2500	2966	3139
60°	2467	3034	3034
65°	2407	2881	2919
70°	2339	2731	2778
75°	2190	2576	2642
80°	2018	2497	2399
85°	1917	2677	2297



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	0.7
10°-20°	86.3	2.1
20°-30°	133.4	3.3
30°-40°	165.5	4.1
40°-50°	185.1	4.5
50°-60°	180.9	4.4
60°-70°	142.7	3.5
70°-80°	86.4	2.1
80°-90°	30.7	0.8
90°-100°	106.0	2.6
100°-110°	409.9	10.0
110°-120°	563.3	13.8
120°-130°	569.9	14.0
130°-140°	505.1	12.4
140°-150°	399.5	9.8
150°-160°	278.9	6.8
160°-170°	157.8	3.9
170°-180°	49.5	1.2
0°-30°	249.4	6.1
0°-40°	414.9	10.2
0°-60°	780.9	19.1
0°-90°	1040.8	25.5
90°-120°	1079.2	26.4
90°-150°	2553.6	62.6
90°-180°	3040.0	74.5
0°-180°	4080.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	312	312	312	312	312	
5°	316	312	314	312	310	30
15°	306	304	306	306	306	87
25°	289	285	291	291	291	133
35°	260	260	264	266	266	163
45°	223	225	229	258	268	172
55°	178	180	211	223	223	159
65°	126	132	151	153	153	124
75°	70	83	83	85	85	74
85°	21	33	29	27	25	22
90°	4	12	10	2	2	4
95°	16	83	99	21	21	20
105°	91	293	444	512	554	97
115°	188	396	624	772	820	187
125°	283	458	684	832	874	253
135°	366	504	684	818	853	282
145°	428	516	663	760	785	267
155°	471	504	624	692	704	217
165°	508	506	554	601	609	143
175°	520	514	512	512	508	50
180°	516	516	516	516	516	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	311.8	311.8	311.8	311.8	311.8
2.5°	316.0	311.8	313.9	311.8	307.7
5°	316.0	311.8	313.9	311.8	309.8
7.5°	313.9	311.8	311.8	309.8	309.8
10°	313.9	309.8	311.8	309.8	307.7
12.5°	309.8	307.7	309.8	307.7	307.7
15°	305.7	303.6	305.7	305.7	305.7
17.5°	303.6	299.5	303.6	303.6	301.5
20°	297.4	295.3	299.5	299.5	299.5
22.5°	293.3	291.2	295.3	295.3	295.3
25°	289.1	285.0	291.2	291.2	291.2
27.5°	280.9	280.9	285.0	287.1	285.0
30°	274.7	272.6	278.8	280.9	278.8
32.5°	268.5	266.4	272.6	274.7	272.6
35°	260.2	260.2	264.3	266.4	266.4
37.5°	252.0	252.0	256.1	258.2	266.4
40°	243.7	243.7	247.8	260.2	268.5
42.5°	233.4	233.4	239.6	258.2	268.5
45°	223.0	225.1	229.2	258.2	268.5
47.5°	212.7	214.8	225.1	256.1	264.3
50°	200.3	204.5	221.0	249.9	256.1
52.5°	190.0	192.1	214.8	239.6	239.6
55°	177.6	179.7	210.7	223.0	223.0
57.5°	165.2	167.3	200.3	204.5	204.5
60°	152.8	154.9	187.9	187.9	187.9
62.5°	138.4	142.5	169.3	171.4	171.4
65°	126.0	132.2	150.8	152.8	152.8
67.5°	111.5	121.8	134.2	136.3	136.3
70°	99.1	111.5	115.7	117.7	117.7
72.5°	84.7	97.1	99.1	101.2	101.2
75°	70.2	82.6	82.6	84.7	84.7
77.5°	55.8	66.1	68.2	68.2	68.2
80°	43.4	49.6	53.7	51.6	51.6
82.5°	31.0	39.2	39.2	39.2	37.2
85°	20.7	33.0	28.9	26.8	24.8
87.5°	12.4	28.9	16.5	14.5	14.5
90°	4.1	12.4	10.3	2.1	2.1
92.5°	8.3	20.7	10.3	8.3	6.2
95°	16.5	82.6	99.1	20.7	20.7
97.5°	31.0	138.4	212.7	252.0	270.5
100°	47.5	206.5	285.0	349.0	371.7
102.5°	68.2	249.9	351.1	431.6	464.7
105°	90.9	293.3	444.0	512.2	553.5
107.5°	113.6	326.3	516.3	592.7	621.6
110°	140.4	353.2	561.7	693.9	702.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	165.2	373.8	586.5	743.5	788.9
115°	187.9	396.5	623.7	772.4	819.9
117.5°	214.8	413.0	646.4	788.9	840.5
120°	239.6	427.5	662.9	809.6	846.7
122.5°	262.3	444.0	675.3	826.1	867.4
125°	282.9	458.5	683.6	832.3	873.6
127.5°	303.6	470.9	685.6	834.3	877.7
130°	326.3	483.3	689.8	832.3	875.6
132.5°	349.0	495.6	687.7	826.1	865.3
135°	365.5	503.9	683.6	817.8	852.9
137.5°	382.1	510.1	679.5	805.4	838.5
140°	396.5	514.2	673.3	791.0	822.0
142.5°	413.0	516.3	669.1	776.5	803.4
145°	427.5	516.3	662.9	760.0	784.8
147.5°	442.0	514.2	654.7	743.5	764.1
150°	452.3	510.1	646.4	727.0	743.5
152.5°	460.5	506.0	636.1	708.4	724.9
155°	470.9	503.9	623.7	691.8	704.2
157.5°	479.1	503.9	609.2	673.3	685.6
160°	487.4	503.9	592.7	654.7	665.0
162.5°	497.7	503.9	570.0	627.8	638.1
165°	508.0	506.0	553.5	601.0	609.2
167.5°	514.2	506.0	537.0	567.9	576.2
170°	518.4	510.1	522.5	545.2	547.3
172.5°	520.4	514.2	512.2	522.5	522.5
175°	520.4	514.2	512.2	512.2	508.0
177.5°	520.4	516.3	516.3	514.2	508.0
180°	516.3	516.3	516.3	516.3	516.3

(END OF REPORT)