

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: P253491

Luminaire Tested: **J3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253491  
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-50L93050-1D-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, 90 CRI LEDS, TUNED TO 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4482.1 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

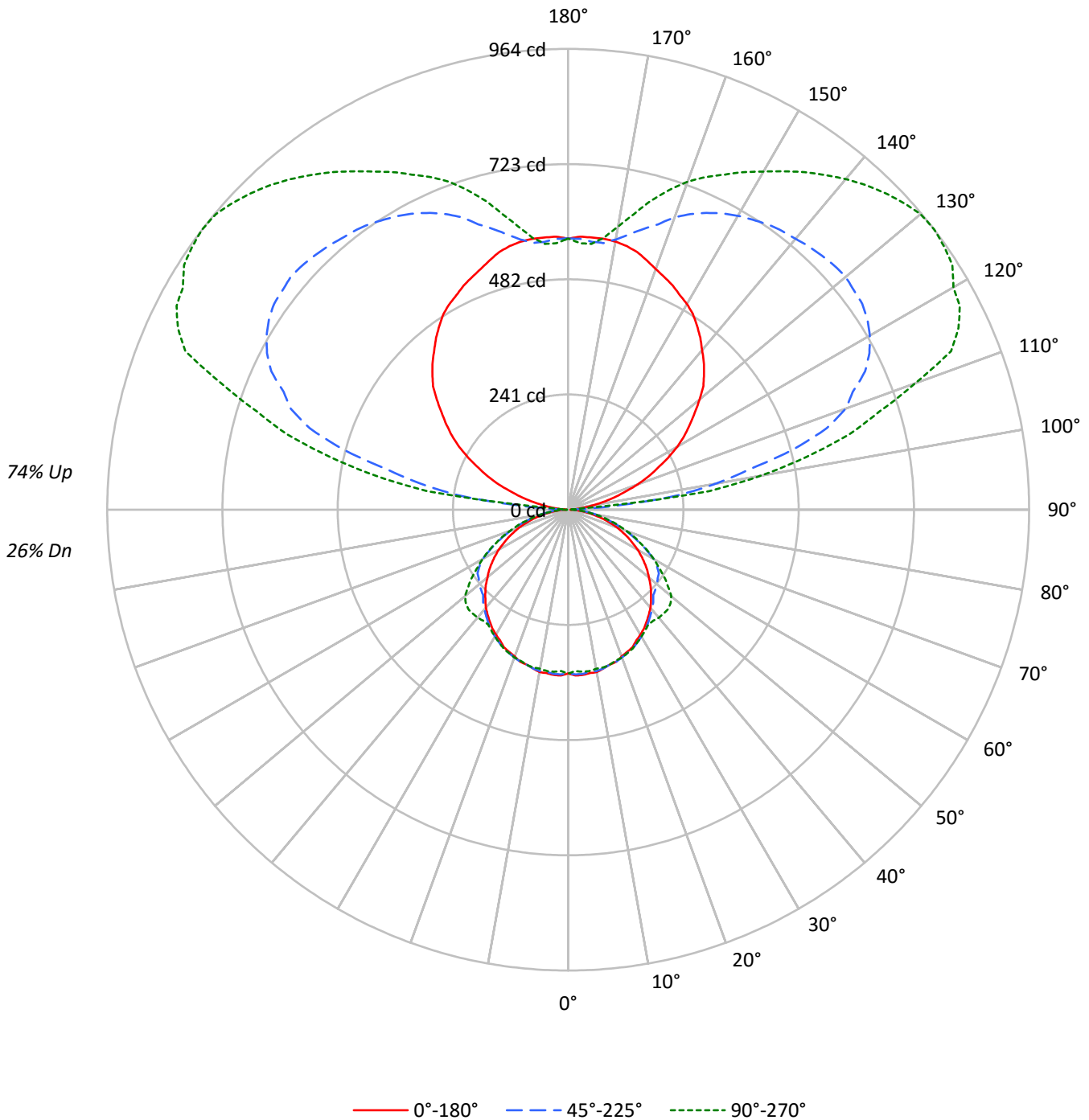
Input Watts (W): 37  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2765	2765	2765
5°	2813	2794	2758
10°	2826	2808	2771
15°	2806	2806	2806
20°	2807	2826	2826
25°	2829	2850	2850
30°	2812	2854	2854
35°	2817	2862	2884
40°	2821	2869	3108
45°	2797	2875	3367
50°	2763	3048	3533
55°	2746	3257	3448
60°	2711	3333	3333
65°	2644	3163	3207
70°	2570	2998	3052
75°	2405	2829	2901
80°	2213	2743	2636
85°	2103	2946	2519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.7	0.7
10°-20°	94.8	2.1
20°-30°	146.5	3.3
30°-40°	181.7	4.1
40°-50°	203.4	4.5
50°-60°	198.7	4.4
60°-70°	156.8	3.5
70°-80°	94.9	2.1
80°-90°	33.8	0.8
90°-100°	116.4	2.6
100°-110°	450.2	10.0
110°-120°	618.7	13.8
120°-130°	626.0	14.0
130°-140°	554.8	12.4
140°-150°	438.8	9.8
150°-160°	306.4	6.8
160°-170°	173.4	3.9
170°-180°	54.3	1.2
0°-30°	274.0	6.1
0°-40°	455.7	10.2
0°-60°	857.8	19.1
0°-90°	1143.2	25.5
90°-120°	1185.4	26.4
90°-150°	2804.9	62.6
90°-180°	3339.0	74.5
0°-180°	4482.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	342	342	342	342	342	
5°	347	342	345	342	340	33
15°	336	334	336	336	336	95
25°	318	313	320	320	320	146
35°	286	286	290	293	293	179
45°	245	247	252	284	295	189
55°	195	197	231	245	245	174
65°	138	145	166	168	168	136
75°	77	91	91	93	93	82
85°	23	36	32	30	27	24
90°	4	14	11	2	2	4
95°	18	91	109	23	23	22
105°	100	322	488	563	608	106
115°	206	436	685	848	901	206
125°	311	504	751	914	960	278
135°	402	554	751	898	937	309
145°	470	567	728	835	862	294
155°	517	554	685	760	774	238
165°	558	556	608	660	669	157
175°	572	565	563	563	558	55
180°	567	567	567	567	567	



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CATALOG NUMBER: J3-CL-50L93050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	342.5	342.5	342.5	342.5	342.5
2.5°	347.1	342.5	344.8	342.5	338.0
5°	347.1	342.5	344.8	342.5	340.3
7.5°	344.8	342.5	342.5	340.3	340.3
10°	344.8	340.3	342.5	340.3	338.0
12.5°	340.3	338.0	340.3	338.0	338.0
15°	335.7	333.5	335.7	335.7	335.7
17.5°	333.5	328.9	333.5	333.5	331.2
20°	326.7	324.4	328.9	328.9	328.9
22.5°	322.1	319.9	324.4	324.4	324.4
25°	317.6	313.0	319.9	319.9	319.9
27.5°	308.5	308.5	313.0	315.3	313.0
30°	301.7	299.4	306.2	308.5	306.2
32.5°	294.9	292.6	299.4	301.7	299.4
35°	285.8	285.8	290.4	292.6	292.6
37.5°	276.8	276.8	281.3	283.6	292.6
40°	267.7	267.7	272.2	285.8	294.9
42.5°	256.3	256.3	263.1	283.6	294.9
45°	245.0	247.3	251.8	283.6	294.9
47.5°	233.6	235.9	247.3	281.3	290.4
50°	220.0	224.6	242.7	274.5	281.3
52.5°	208.7	211.0	235.9	263.1	263.1
55°	195.1	197.4	231.4	245.0	245.0
57.5°	181.5	183.7	220.0	224.6	224.6
60°	167.9	170.1	206.4	206.4	206.4
62.5°	152.0	156.5	186.0	188.3	188.3
65°	138.4	145.2	165.6	167.9	167.9
67.5°	122.5	133.8	147.4	149.7	149.7
70°	108.9	122.5	127.0	129.3	129.3
72.5°	93.0	106.6	108.9	111.2	111.2
75°	77.1	90.7	90.7	93.0	93.0
77.5°	61.2	72.6	74.9	74.9	74.9
80°	47.6	54.4	59.0	56.7	56.7
82.5°	34.0	43.1	43.1	43.1	40.8
85°	22.7	36.3	31.8	29.5	27.2
87.5°	13.6	31.8	18.1	15.9	15.9
90°	4.5	13.6	11.3	2.3	2.3
92.5°	9.1	22.7	11.3	9.1	6.8
95°	18.1	90.7	108.9	22.7	22.7
97.5°	34.0	152.0	233.6	276.8	297.2
100°	52.2	226.8	313.0	383.4	408.3
102.5°	74.9	274.5	385.6	474.1	510.4
105°	99.8	322.1	487.7	562.6	607.9
107.5°	124.8	358.4	567.1	651.0	682.8
110°	154.3	387.9	617.0	762.2	771.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	181.5	410.6	644.2	816.6	866.5
115°	206.4	435.5	685.1	848.4	900.6
117.5°	235.9	453.7	710.0	866.5	923.3
120°	263.1	469.6	728.2	889.2	930.1
122.5°	288.1	487.7	741.8	907.4	952.7
125°	310.8	503.6	750.9	914.2	959.6
127.5°	333.5	517.2	753.1	916.5	964.1
130°	358.4	530.8	757.7	914.2	961.8
132.5°	383.4	544.4	755.4	907.4	950.5
135°	401.5	553.5	750.9	898.3	936.9
137.5°	419.7	560.3	746.3	884.7	921.0
140°	435.5	564.8	739.5	868.8	902.8
142.5°	453.7	567.1	735.0	852.9	882.4
145°	469.6	567.1	728.2	834.8	862.0
147.5°	485.4	564.8	719.1	816.6	839.3
150°	496.8	560.3	710.0	798.5	816.6
152.5°	505.9	555.8	698.7	778.1	796.2
155°	517.2	553.5	685.1	759.9	773.5
157.5°	526.3	553.5	669.2	739.5	753.1
160°	535.4	553.5	651.0	719.1	730.4
162.5°	546.7	553.5	626.1	689.6	700.9
165°	558.0	555.8	607.9	660.1	669.2
167.5°	564.8	555.8	589.8	623.8	632.9
170°	569.4	560.3	573.9	598.9	601.1
172.5°	571.6	564.8	562.6	573.9	573.9
175°	571.6	564.8	562.6	562.6	558.0
177.5°	571.6	567.1	567.1	564.8	558.0
180°	567.1	567.1	567.1	567.1	567.1

(END OF REPORT)