

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: P275121

Luminaire Tested: **J3-FL-50L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275121  
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-50L82765-1D-UNV-W2A-W-4 (3500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, FROSTED TOP.  
2700K-6500K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4691.9 lumens  
Efficiency: N/A  
Efficacy: 131.4 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

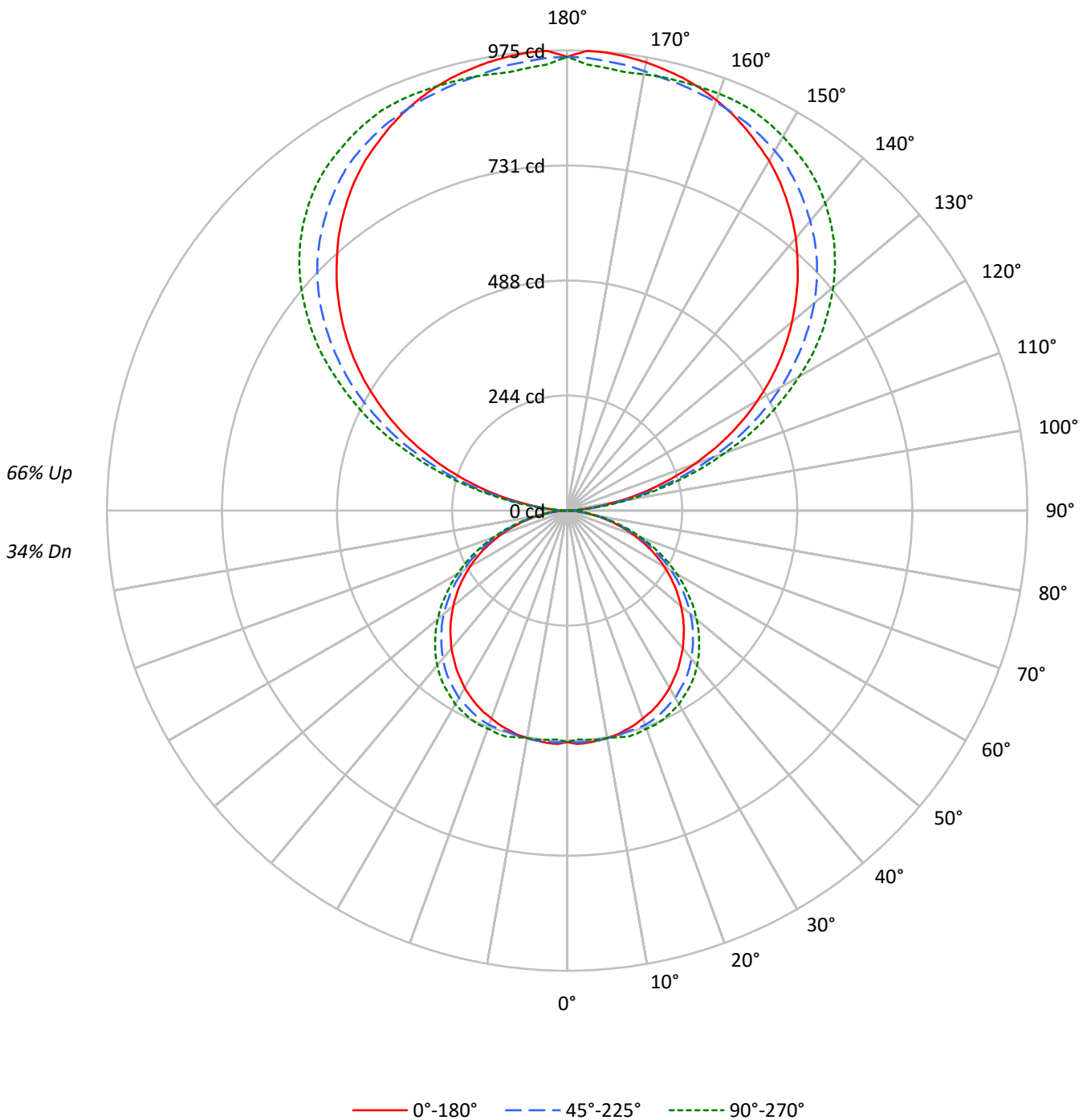
Input Watts (W): 35.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3961	3961	3961
5°	4002	3985	3950
10°	4013	4013	4013
15°	4020	4056	4145
20°	4025	4152	4224
25°	4043	4211	4334
30°	4045	4269	4418
35°	4036	4305	4473
40°	4017	4316	4515
45°	3991	4303	4519
50°	3954	4285	4496
55°	3911	4225	4431
60°	3839	4114	4335
65°	3719	3960	4185
70°	3505	3729	3925
75°	3219	3415	3581
80°	2794	2985	3092
85°	2242	2325	2445



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	46.8	1.0
10°-20°	137.7	2.9
20°-30°	216.8	4.6
30°-40°	270.9	5.8
40°-50°	288.7	6.2
50°-60°	266.3	5.7
60°-70°	204.5	4.4
70°-80°	115.9	2.5
80°-90°	30.5	0.7
90°-100°	49.2	1.0
100°-110°	231.5	4.9
110°-120°	419.5	8.9
120°-130°	538.9	11.5
130°-140°	573.3	12.2
140°-150°	527.5	11.2
150°-160°	417.7	8.9
160°-170°	265.2	5.7
170°-180°	91.0	1.9
0°-30°	401.3	8.6
0°-40°	672.1	14.3
0°-60°	1227.1	26.2
0°-90°	1578.0	33.6
90°-120°	700.2	14.9
90°-150°	2340.0	49.9
90°-180°	3114.0	66.4
0°-180°	4691.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	491	491	491	491	491	
5°	494	490	492	491	487	47
15°	481	479	485	494	496	136
25°	454	455	473	482	486	209
35°	410	417	437	448	454	256
45°	350	359	377	388	396	270
55°	278	286	300	310	315	248
65°	195	199	207	215	219	192
75°	103	105	110	114	115	110
85°	24	25	25	26	26	27
90°	1	1	1	0	0	3
95°	33	34	37	39	41	42
105°	194	202	221	235	241	205
115°	379	395	428	455	468	374
125°	548	564	608	641	659	489
135°	691	701	749	781	800	533
145°	809	806	846	873	889	506
155°	894	881	904	923	934	412
165°	949	934	934	937	940	268
175°	974	962	956	949	941	93
180°	961	961	961	961	961	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	490.6	490.6	490.6	490.6	490.6
2.5°	494.9	490.6	491.7	491.7	485.3
5°	493.8	489.5	491.7	490.6	487.4
7.5°	491.7	488.5	491.7	491.7	489.5
10°	489.5	486.5	489.5	490.6	489.5
12.5°	486.5	483.3	488.5	490.6	491.7
15°	481.0	479.0	485.3	493.8	496.0
17.5°	476.0	474.9	484.4	493.8	494.9
20°	468.5	468.5	483.3	490.6	491.7
22.5°	462.3	462.3	479.0	486.5	490.6
25°	453.9	454.8	472.8	482.3	486.5
27.5°	444.3	447.5	465.3	476.0	480.1
30°	433.9	439.1	458.0	468.5	473.9
32.5°	421.3	428.4	447.5	458.0	463.2
35°	409.5	417.0	436.8	447.5	453.9
37.5°	394.9	404.3	424.3	434.8	442.3
40°	381.2	390.8	409.5	421.3	428.4
42.5°	365.3	375.8	393.8	405.4	412.7
45°	349.6	359.0	376.9	388.5	395.8
47.5°	332.7	342.3	360.3	370.7	377.9
50°	314.8	325.2	341.2	351.7	358.0
52.5°	296.8	306.3	321.1	331.8	338.0
55°	277.9	286.3	300.2	309.7	314.8
57.5°	257.8	266.3	277.9	287.4	292.7
60°	237.8	244.2	254.8	264.2	268.5
62.5°	216.8	222.3	231.6	239.1	244.2
65°	194.7	199.0	207.3	214.8	219.1
67.5°	171.7	175.8	183.1	189.5	192.7
70°	148.5	152.6	158.0	163.1	166.3
72.5°	126.2	128.5	133.7	138.0	140.1
75°	103.2	105.2	109.5	113.7	114.8
77.5°	82.2	83.1	86.5	88.6	89.5
80°	60.1	62.2	64.2	65.2	66.5
82.5°	41.0	42.1	43.1	44.2	45.1
85°	24.2	25.1	25.1	26.4	26.4
87.5°	10.5	11.6	11.6	11.6	11.6
90°	1.1	1.1	1.1	0.0	0.0
92.5°	10.5	10.5	11.6	12.5	13.7
95°	32.6	33.7	36.9	38.9	41.0
97.5°	65.2	67.4	73.6	79.0	81.1
100°	105.2	109.5	119.1	126.2	129.6
102.5°	148.5	154.7	168.5	179.0	184.3
105°	193.8	202.2	221.1	234.8	241.2
107.5°	240.1	250.7	274.9	290.6	299.0
110°	286.3	300.2	326.4	347.3	353.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	332.7	347.3	379.0	402.2	413.8
115°	379.0	394.9	428.4	454.8	467.6
117.5°	423.4	440.0	476.9	506.5	517.9
120°	465.3	483.3	523.4	553.9	567.5
122.5°	507.4	524.5	566.4	599.0	616.0
125°	547.5	564.4	607.6	641.1	659.1
127.5°	585.5	601.1	646.6	681.2	698.1
130°	622.2	637.0	683.3	717.2	736.1
132.5°	657.1	670.7	717.2	749.7	769.8
135°	690.8	701.2	748.6	781.2	800.3
137.5°	722.2	729.7	776.1	808.7	826.7
140°	753.9	756.1	801.2	831.8	850.7
142.5°	782.3	781.2	824.5	853.8	871.8
145°	808.7	805.5	846.5	872.8	888.7
147.5°	833.8	826.7	865.5	887.7	902.3
150°	855.9	846.5	880.2	902.3	914.9
152.5°	874.8	864.3	892.8	912.8	925.4
155°	893.9	881.4	904.4	923.3	934.0
157.5°	910.8	894.9	912.8	929.7	938.3
160°	925.4	909.8	921.3	934.0	940.4
162.5°	938.3	922.4	927.6	934.9	940.4
165°	948.8	934.0	934.0	937.0	940.4
167.5°	957.0	944.5	938.3	939.2	940.4
170°	964.5	951.8	945.4	939.2	938.3
172.5°	969.8	957.0	951.8	943.4	937.0
175°	973.9	962.5	955.9	948.8	941.3
177.5°	975.0	965.4	960.2	952.9	946.5
180°	961.3	961.3	961.3	961.3	961.3

(END OF REPORT)