

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: P275123

Luminaire Tested: **J3-FL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275123  
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 (4500K)  
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 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4879.2 lumens  
Efficiency: N/A  
Efficacy: 134.8 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

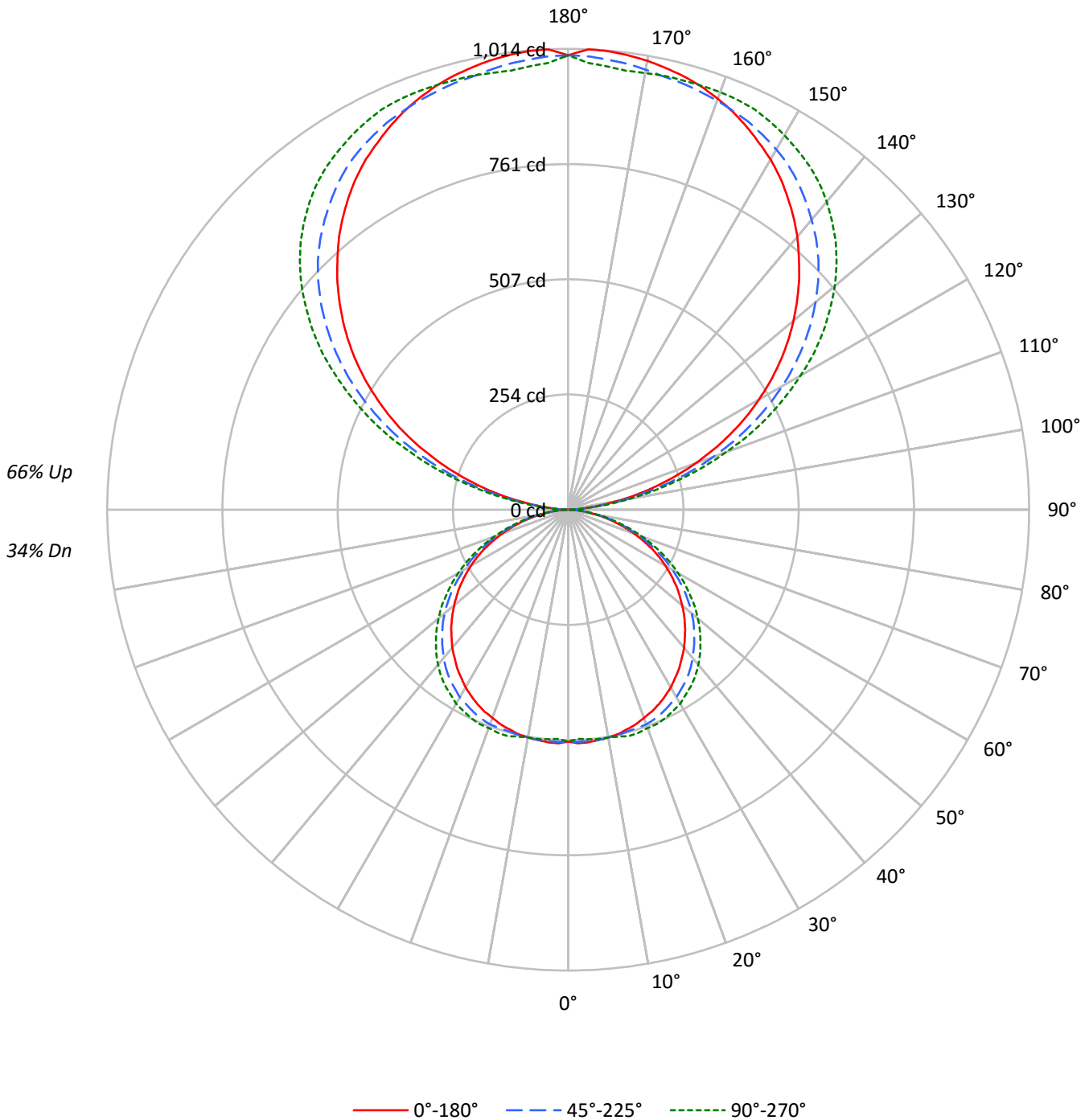
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4119	4119	4119
5°	4161	4143	4108
10°	4173	4173	4173
15°	4181	4218	4311
20°	4186	4318	4393
25°	4204	4380	4506
30°	4206	4440	4594
35°	4197	4477	4652
40°	4179	4488	4695
45°	4150	4475	4699
50°	4111	4456	4676
55°	4068	4393	4607
60°	3993	4279	4508
65°	3868	4118	4351
70°	3644	3878	4081
75°	3347	3553	3724
80°	2906	3106	3212
85°	2325	2418	2547



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.7	1.0
10°-20°	143.1	2.9
20°-30°	225.5	4.6
30°-40°	281.7	5.8
40°-50°	300.3	6.2
50°-60°	276.9	5.7
60°-70°	212.6	4.4
70°-80°	120.5	2.5
80°-90°	31.8	0.7
90°-100°	51.1	1.0
100°-110°	240.7	4.9
110°-120°	436.3	8.9
120°-130°	560.4	11.5
130°-140°	596.2	12.2
140°-150°	548.6	11.2
150°-160°	434.4	8.9
160°-170°	275.8	5.7
170°-180°	94.6	1.9
0°-30°	417.3	8.6
0°-40°	699.0	14.3
0°-60°	1276.1	26.2
0°-90°	1641.0	33.6
90°-120°	728.2	14.9
90°-150°	2433.4	49.9
90°-180°	3238.0	66.4
0°-180°	4879.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	514	509	511	510	507	49
15°	500	498	505	514	516	141
25°	472	473	492	502	506	218
35°	426	434	454	465	472	266
45°	364	373	392	404	412	280
55°	289	298	312	322	327	258
65°	202	207	216	223	228	200
75°	107	109	114	118	119	114
85°	25	26	26	28	28	28
90°	1	1	1	0	0	3
95°	34	35	38	40	43	44
105°	202	210	230	244	251	213
115°	394	411	446	473	486	389
125°	569	587	632	667	685	508
135°	718	729	778	812	832	554
145°	841	838	880	908	924	526
155°	930	917	940	960	971	429
165°	987	971	971	974	978	279
175°	1013	1001	994	987	979	96
180°	1000	1000	1000	1000	1000	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	510.2	510.2	510.2	510.2	510.2
2.5°	514.6	510.2	511.3	511.3	504.7
5°	513.5	509.0	511.3	510.2	506.9
7.5°	511.3	508.0	511.3	511.3	509.0
10°	509.0	505.9	509.0	510.2	509.0
12.5°	505.9	502.6	508.0	510.2	511.3
15°	500.2	498.1	504.7	513.5	515.8
17.5°	495.0	493.8	503.7	513.5	514.6
20°	487.2	487.2	502.6	510.2	511.3
22.5°	480.8	480.8	498.1	505.9	510.2
25°	472.0	473.0	491.7	501.6	505.9
27.5°	462.1	465.4	483.9	495.0	499.3
30°	451.2	456.6	476.3	487.2	492.8
32.5°	438.1	445.5	465.4	476.3	481.7
35°	425.9	433.6	454.3	465.4	472.0
37.5°	410.7	420.4	441.2	452.1	459.9
40°	396.5	406.4	425.9	438.1	445.5
42.5°	379.9	390.8	409.5	421.6	429.2
45°	363.5	373.3	392.0	404.0	411.6
47.5°	346.0	356.0	374.6	385.5	392.9
50°	327.3	338.2	354.8	365.7	372.3
52.5°	308.6	318.6	333.9	345.0	351.5
55°	289.0	297.7	312.1	322.1	327.3
57.5°	268.1	276.9	289.0	298.9	304.4
60°	247.3	253.9	265.0	274.8	279.2
62.5°	225.5	231.1	240.9	248.7	253.9
65°	202.5	207.0	215.6	223.3	227.8
67.5°	178.6	182.8	190.4	197.1	200.4
70°	154.4	158.7	164.3	169.6	172.9
72.5°	131.2	133.6	139.0	143.5	145.7
75°	107.3	109.4	113.9	118.2	119.4
77.5°	85.5	86.5	90.0	92.1	93.1
80°	62.5	64.6	66.8	67.8	69.1
82.5°	42.6	43.8	44.8	46.0	46.9
85°	25.1	26.1	26.1	27.5	27.5
87.5°	10.9	12.1	12.1	12.1	12.1
90°	1.2	1.2	1.2	0.0	0.0
92.5°	10.9	10.9	12.1	13.0	14.2
95°	33.9	35.0	38.4	40.5	42.6
97.5°	67.8	70.1	76.5	82.2	84.3
100°	109.4	113.9	123.8	131.2	134.7
102.5°	154.4	160.8	175.2	186.2	191.6
105°	201.5	210.3	230.0	244.2	250.8
107.5°	249.6	260.7	285.9	302.2	311.0
110°	297.7	312.1	339.4	361.2	367.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	346.0	361.2	394.1	418.3	430.3
115°	394.1	410.7	445.5	473.0	486.2
117.5°	440.3	457.6	496.0	526.7	538.6
120°	483.9	502.6	544.2	576.0	590.2
122.5°	527.7	545.4	589.0	622.9	640.6
125°	569.4	586.9	631.9	666.7	685.4
127.5°	608.9	625.1	672.4	708.4	725.9
130°	647.1	662.4	710.5	745.8	765.5
132.5°	683.3	697.5	745.8	779.7	800.5
135°	718.3	729.2	778.5	812.4	832.2
137.5°	751.0	758.8	807.1	841.0	859.7
140°	784.0	786.3	833.2	865.0	884.6
142.5°	813.5	812.4	857.4	887.9	906.6
145°	841.0	837.7	880.3	907.6	924.1
147.5°	867.1	859.7	900.0	923.2	938.4
150°	890.1	880.3	915.4	938.4	951.4
152.5°	909.7	898.8	928.4	949.3	962.3
155°	929.6	916.6	940.5	960.2	971.3
157.5°	947.1	930.6	949.3	966.8	975.8
160°	962.3	946.2	958.0	971.3	977.9
162.5°	975.8	959.2	964.7	972.2	977.9
165°	986.7	971.3	971.3	974.4	977.9
167.5°	995.2	982.2	975.8	976.7	977.9
170°	1003.0	989.8	983.2	976.7	975.8
172.5°	1008.5	995.2	989.8	981.0	974.4
175°	1012.7	1000.9	994.1	986.7	978.9
177.5°	1013.9	1004.0	998.5	990.9	984.3
180°	999.7	999.7	999.7	999.7	999.7

(END OF REPORT)