

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: P275120

Luminaire Tested: **J3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275120  
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 (3000K)  
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 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4533.4 lumens  
Efficiency: N/A  
Efficacy: 128.4 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

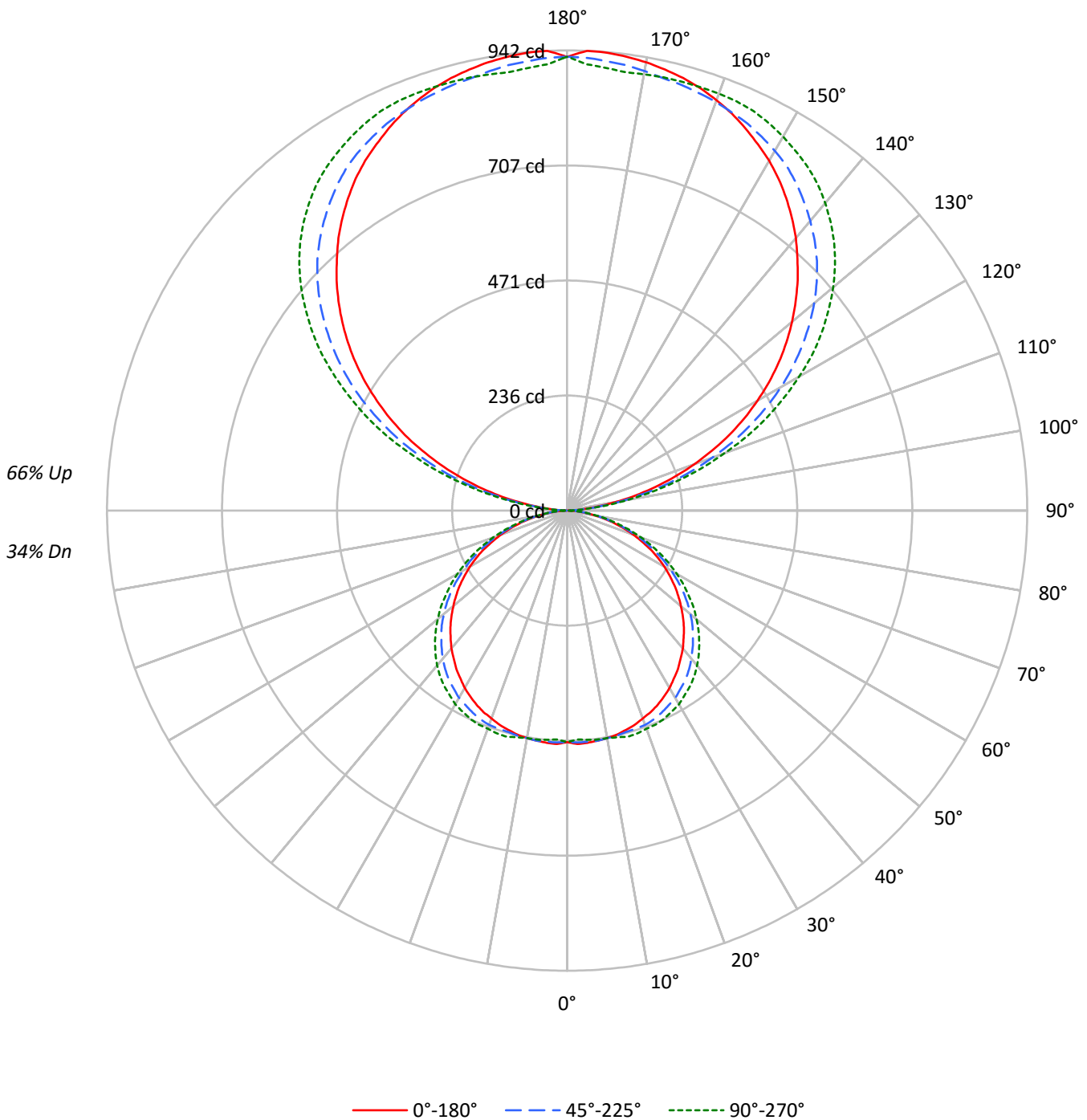
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275120

CATALOG NUMBER: J3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

### Luminous Intensity Polar Plot





TEST NUMBER: P275120

CATALOG NUMBER: J3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

**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°	3827	3827	3827
5°	3866	3850	3816
10°	3877	3877	3877
15°	3885	3920	4006
20°	3889	4012	4082
25°	3907	4069	4187
30°	3908	4125	4268
35°	3900	4160	4323
40°	3882	4170	4363
45°	3857	4158	4367
50°	3819	4140	4344
55°	3779	4082	4280
60°	3710	3975	4188
65°	3595	3826	4044
70°	3387	3604	3793
75°	3110	3300	3459
80°	2701	2887	2985
85°	2158	2242	2362



TEST NUMBER: P275120

CATALOG NUMBER: J3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	45.2	1.0
10°-20°	133.0	2.9
20°-30°	209.5	4.6
30°-40°	261.7	5.8
40°-50°	279.0	6.2
50°-60°	257.3	5.7
60°-70°	197.6	4.4
70°-80°	111.9	2.5
80°-90°	29.5	0.7
90°-100°	47.5	1.0
100°-110°	223.7	4.9
110°-120°	405.4	8.9
120°-130°	520.7	11.5
130°-140°	554.0	12.2
140°-150°	509.7	11.2
150°-160°	403.6	8.9
160°-170°	256.2	5.7
170°-180°	87.9	1.9
0°-30°	387.7	8.6
0°-40°	649.4	14.3
0°-60°	1185.7	26.2
0°-90°	1524.7	33.6
90°-120°	676.6	14.9
90°-150°	2261.0	49.9
90°-180°	3009.0	66.4
0°-180°	4533.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	474	474	474	474	474	
5°	477	473	475	474	471	45
15°	465	463	469	477	479	131
25°	439	440	457	466	470	202
35°	396	403	422	432	439	247
45°	338	347	364	375	382	260
55°	268	277	290	299	304	240
65°	188	192	200	208	212	186
75°	100	102	106	110	111	106
85°	23	24	24	26	26	26
90°	1	1	1	0	0	3
95°	32	33	36	38	40	41
105°	187	195	214	227	233	198
115°	366	382	414	440	452	361
125°	529	545	587	620	637	472
135°	667	678	723	755	773	515
145°	781	778	818	843	859	489
155°	864	852	874	892	902	398
165°	917	902	902	905	909	259
175°	941	930	924	917	910	89
180°	929	929	929	929	929	



TEST NUMBER: P275120

CATALOG NUMBER: J3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	474.0	474.0	474.0	474.0	474.0
2.5°	478.2	474.0	475.1	475.1	469.0
5°	477.1	472.9	475.1	474.0	470.9
7.5°	475.1	472.0	475.1	475.1	472.9
10°	472.9	470.0	472.9	474.0	472.9
12.5°	470.0	467.0	472.0	474.0	475.1
15°	464.8	462.8	469.0	477.1	479.3
17.5°	459.9	458.8	468.0	477.1	478.2
20°	452.7	452.7	467.0	474.0	475.1
22.5°	446.7	446.7	462.8	470.0	474.0
25°	438.6	439.5	456.8	466.1	470.0
27.5°	429.3	432.4	449.6	459.9	463.9
30°	419.2	424.3	442.5	452.7	457.9
32.5°	407.1	414.0	432.4	442.5	447.6
35°	395.7	402.9	422.1	432.4	438.6
37.5°	381.6	390.6	410.0	420.1	427.3
40°	368.4	377.6	395.7	407.1	414.0
42.5°	353.0	363.1	380.5	391.7	398.8
45°	337.8	346.8	364.2	375.4	382.5
47.5°	321.5	330.7	348.1	358.2	365.1
50°	304.1	314.3	329.6	339.8	345.9
52.5°	286.8	296.0	310.3	320.6	326.6
55°	268.5	276.6	290.0	299.2	304.1
57.5°	249.1	257.3	268.5	277.7	282.8
60°	229.8	235.9	246.2	255.3	259.4
62.5°	209.5	214.8	223.8	231.0	235.9
65°	188.2	192.3	200.3	207.5	211.7
67.5°	165.9	169.9	176.9	183.1	186.2
70°	143.5	147.5	152.7	157.6	160.7
72.5°	121.9	124.1	129.2	133.3	135.3
75°	99.7	101.7	105.8	109.8	110.9
77.5°	79.4	80.3	83.6	85.6	86.5
80°	58.1	60.1	62.1	63.0	64.2
82.5°	39.6	40.7	41.6	42.7	43.6
85°	23.3	24.2	24.2	25.5	25.5
87.5°	10.1	11.2	11.2	11.2	11.2
90°	1.1	1.1	1.1	0.0	0.0
92.5°	10.1	10.1	11.2	12.1	13.2
95°	31.5	32.6	35.6	37.6	39.6
97.5°	63.0	65.1	71.1	76.3	78.3
100°	101.7	105.8	115.1	121.9	125.2
102.5°	143.5	149.4	162.8	173.0	178.0
105°	187.3	195.4	213.7	226.9	233.0
107.5°	231.9	242.3	265.6	280.8	288.9
110°	276.6	290.0	315.3	335.6	341.8



TEST NUMBER: P275120

CATALOG NUMBER: J3-FL-50L82765-1D-UNV-W2A-W-4 (3000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	321.5	335.6	366.2	388.6	399.8
115°	366.2	381.6	414.0	439.5	451.8
117.5°	409.1	425.2	460.8	489.4	500.4
120°	449.6	467.0	505.7	535.2	548.4
122.5°	490.3	506.8	547.3	578.8	595.2
125°	529.0	545.3	587.1	619.5	636.8
127.5°	565.7	580.8	624.7	658.2	674.5
130°	601.2	615.5	660.2	692.9	711.2
132.5°	634.9	648.1	692.9	724.4	743.8
135°	667.4	677.6	723.3	754.8	773.3
137.5°	697.8	705.1	749.9	781.4	798.8
140°	728.4	730.6	774.2	803.7	821.9
142.5°	755.9	754.8	796.6	825.0	842.4
145°	781.4	778.3	818.0	843.3	858.7
147.5°	805.6	798.8	836.2	857.8	871.9
150°	827.0	818.0	850.5	871.9	884.0
152.5°	845.3	835.1	862.6	882.0	894.1
155°	863.7	851.6	873.9	892.1	902.4
157.5°	880.0	864.6	882.0	898.3	906.6
160°	894.1	879.1	890.1	902.4	908.6
162.5°	906.6	891.2	896.3	903.3	908.6
165°	916.7	902.4	902.4	905.3	908.6
167.5°	924.7	912.6	906.6	907.5	908.6
170°	931.9	919.6	913.5	907.5	906.6
172.5°	937.0	924.7	919.6	911.5	905.3
175°	941.0	929.9	923.6	916.7	909.5
177.5°	942.1	932.8	927.8	920.7	914.6
180°	928.9	928.9	928.9	928.9	928.9

(END OF REPORT)