

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: P275077

Luminaire Tested: **J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)**

Issue Date: 10/15/2018

**Test Information**

Test Method: LM-79-08  
Report Number: P275077  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P179524)  
Test Lab: INNOVATIONS CENTER  
Issue Date: 10/15/2018  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)  
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 5700K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2341.7 lumens  
Efficiency: N/A  
Efficacy: 140.2 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.42 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

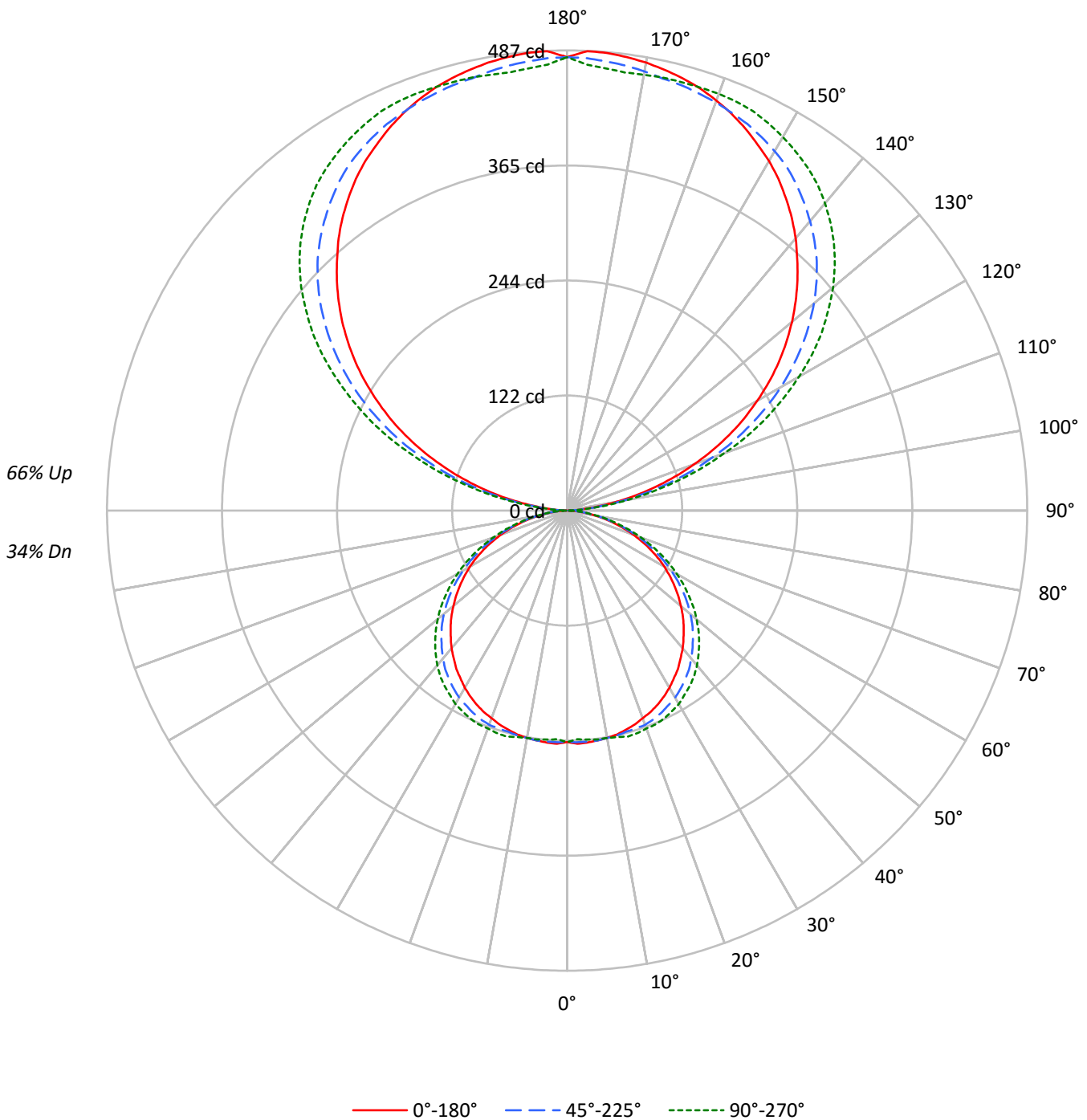
Input Watts (W): 16.7  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P275077

CATALOG NUMBER: J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

### Luminous Intensity Polar Plot





TEST NUMBER: P275077

CATALOG NUMBER: J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

**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°	1977	1977	1977
5°	1997	1989	1972
10°	2003	2003	2003
15°	2007	2024	2069
20°	2009	2072	2108
25°	2018	2102	2163
30°	2018	2131	2205
35°	2014	2148	2232
40°	2005	2154	2253
45°	1992	2148	2256
50°	1973	2139	2244
55°	1952	2108	2211
60°	1917	2054	2164
65°	1857	1977	2088
70°	1749	1862	1959
75°	1606	1706	1787
80°	1395	1492	1543
85°	1121	1158	1223



TEST NUMBER: P275077

CATALOG NUMBER: J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.4	1.0
10°-20°	68.7	2.9
20°-30°	108.2	4.6
30°-40°	135.2	5.8
40°-50°	144.1	6.2
50°-60°	132.9	5.7
60°-70°	102.1	4.4
70°-80°	57.8	2.5
80°-90°	15.2	0.7
90°-100°	24.5	1.0
100°-110°	115.5	4.9
110°-120°	209.4	8.9
120°-130°	269.0	11.5
130°-140°	286.1	12.2
140°-150°	263.3	11.2
150°-160°	208.5	8.9
160°-170°	132.4	5.7
170°-180°	45.4	1.9
0°-30°	200.3	8.6
0°-40°	335.5	14.3
0°-60°	612.5	26.2
0°-90°	787.6	33.6
90°-120°	349.5	14.9
90°-150°	1167.9	49.9
90°-180°	1554.0	66.4
0°-180°	2341.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	245	245	245	245	245	
5°	246	244	245	245	243	23
15°	240	239	242	246	248	68
25°	226	227	236	241	243	104
35°	204	208	218	223	226	128
45°	174	179	188	194	198	135
55°	139	143	150	155	157	124
65°	97	99	104	107	109	96
75°	52	52	55	57	57	55
85°	12	12	12	13	13	14
90°	1	1	1	0	0	2
95°	16	17	18	19	20	21
105°	97	101	110	117	120	102
115°	189	197	214	227	233	187
125°	273	282	303	320	329	244
135°	345	350	374	390	399	266
145°	404	402	422	436	444	253
155°	446	440	451	461	466	206
165°	474	466	466	468	469	134
175°	486	480	477	474	470	46
180°	480	480	480	480	480	



TEST NUMBER: P275077

CATALOG NUMBER: J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	244.9	244.9	244.9	244.9	244.9
2.5°	247.0	244.9	245.4	245.4	242.2
5°	246.4	244.3	245.4	244.9	243.3
7.5°	245.4	243.8	245.4	245.4	244.3
10°	244.3	242.8	244.3	244.9	244.3
12.5°	242.8	241.2	243.8	244.9	245.4
15°	240.1	239.1	242.2	246.4	247.6
17.5°	237.6	237.0	241.8	246.4	247.0
20°	233.8	233.8	241.2	244.9	245.4
22.5°	230.7	230.7	239.1	242.8	244.9
25°	226.5	227.0	236.0	240.7	242.8
27.5°	221.8	223.4	232.2	237.6	239.6
30°	216.5	219.2	228.6	233.8	236.5
32.5°	210.3	213.8	223.4	228.6	231.2
35°	204.4	208.1	218.0	223.4	226.5
37.5°	197.1	201.8	211.8	217.0	220.7
40°	190.3	195.0	204.4	210.3	213.8
42.5°	182.3	187.6	196.5	202.3	206.0
45°	174.5	179.2	188.1	193.9	197.6
47.5°	166.1	170.8	179.8	185.0	188.6
50°	157.1	162.3	170.3	175.5	178.7
52.5°	148.1	152.9	160.3	165.6	168.7
55°	138.7	142.9	149.8	154.6	157.1
57.5°	128.7	132.9	138.7	143.5	146.1
60°	118.7	121.9	127.2	131.9	134.0
62.5°	108.2	110.9	115.6	119.3	121.9
65°	97.2	99.3	103.5	107.2	109.3
67.5°	85.7	87.8	91.4	94.6	96.2
70°	74.1	76.2	78.9	81.4	83.0
72.5°	63.0	64.1	66.7	68.9	69.9
75°	51.5	52.5	54.7	56.7	57.3
77.5°	41.0	41.5	43.2	44.2	44.7
80°	30.0	31.0	32.1	32.5	33.2
82.5°	20.5	21.0	21.5	22.1	22.5
85°	12.1	12.5	12.5	13.2	13.2
87.5°	5.2	5.8	5.8	5.8	5.8
90°	0.6	0.6	0.6	0.0	0.0
92.5°	5.2	5.2	5.8	6.3	6.8
95°	16.3	16.8	18.4	19.4	20.5
97.5°	32.5	33.6	36.7	39.4	40.5
100°	52.5	54.7	59.4	63.0	64.7
102.5°	74.1	77.2	84.1	89.3	92.0
105°	96.7	100.9	110.4	117.2	120.4
107.5°	119.8	125.1	137.2	145.0	149.2
110°	142.9	149.8	162.9	173.4	176.5



TEST NUMBER: P275077

CATALOG NUMBER: J3-FL-20L82765-1D-UNV-W2A-W-4 (5700K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	166.1	173.4	189.2	200.7	206.5
115°	189.2	197.1	213.8	227.0	233.4
117.5°	211.3	219.6	238.0	252.8	258.5
120°	232.2	241.2	261.2	276.4	283.3
122.5°	253.3	261.8	282.7	299.0	307.5
125°	273.3	281.7	303.3	320.0	329.0
127.5°	292.2	300.0	322.7	340.0	348.4
130°	310.6	317.9	341.0	357.9	367.4
132.5°	327.9	334.8	357.9	374.2	384.2
135°	344.8	350.0	373.6	389.9	399.4
137.5°	360.5	364.2	387.4	403.6	412.6
140°	376.3	377.4	399.9	415.1	424.6
142.5°	390.5	389.9	411.5	426.2	435.1
145°	403.6	402.0	422.5	435.6	443.5
147.5°	416.2	412.6	431.9	443.1	450.4
150°	427.2	422.5	439.3	450.4	456.6
152.5°	436.6	431.4	445.6	455.6	461.9
155°	446.2	439.9	451.4	460.8	466.2
157.5°	454.6	446.6	455.6	464.0	468.3
160°	461.9	454.1	459.8	466.2	469.3
162.5°	468.3	460.4	463.0	466.6	469.3
165°	473.5	466.2	466.2	467.6	469.3
167.5°	477.6	471.4	468.3	468.8	469.3
170°	481.4	475.0	471.9	468.8	468.3
172.5°	484.0	477.6	475.0	470.8	467.6
175°	486.1	480.4	477.1	473.5	469.8
177.5°	486.6	481.9	479.2	475.6	472.4
180°	479.8	479.8	479.8	479.8	479.8

(END OF REPORT)