

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: P275219

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275219  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN 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: 5090.8 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.37 / 1.44  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

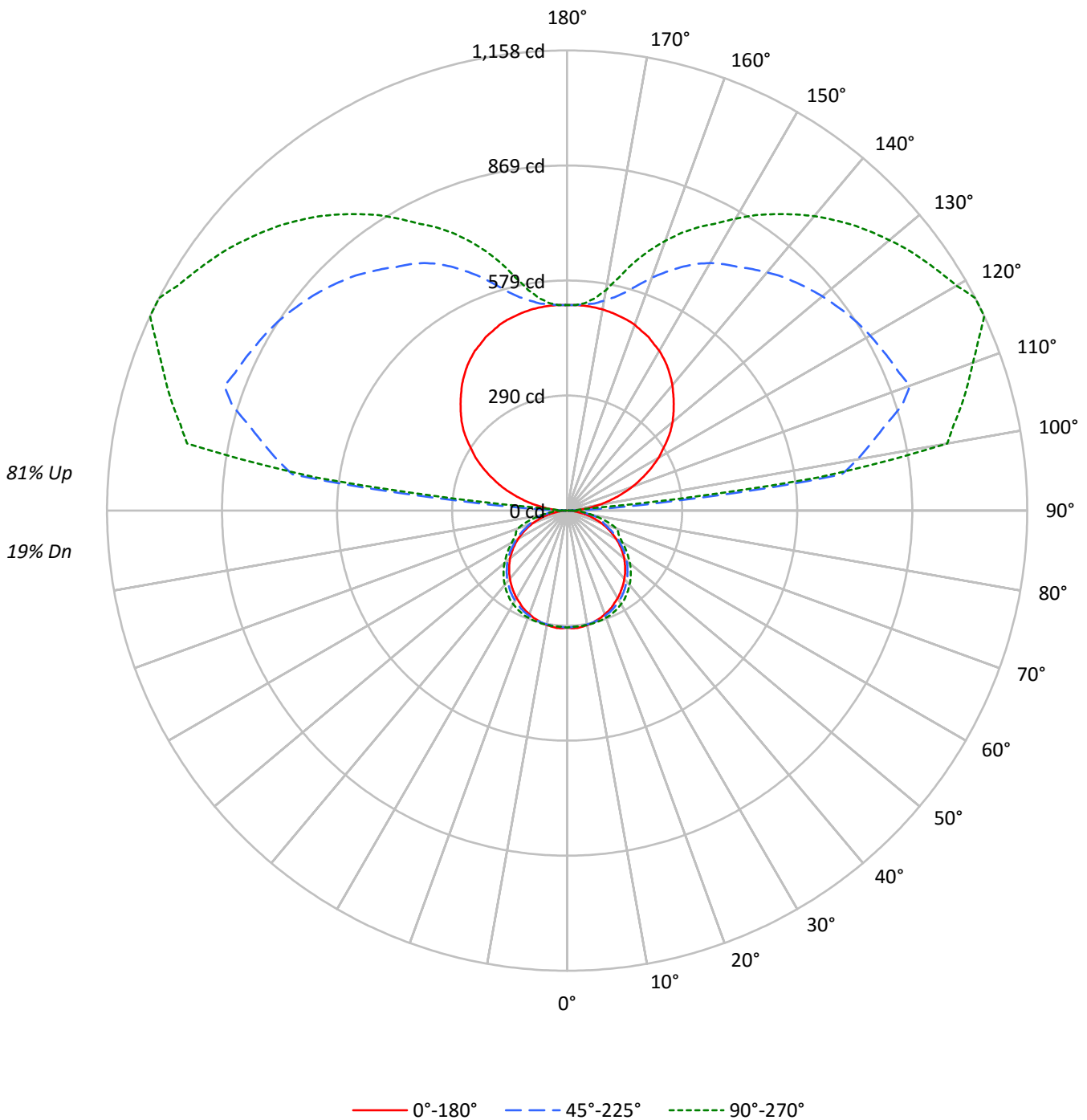
Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	100	100	100	100	88	88	88	88	66	66	66	46	46	46	28	28	28	19				
1	91	86	83	79	80	76	73	70	57	55	53	40	39	38	24	23	23	15				
2	82	75	69	64	72	66	61	57	50	47	44	35	33	31	21	20	19	13				
3	75	66	59	53	66	58	52	47	44	40	37	31	28	26	18	17	16	10				
4	68	58	50	45	60	51	45	40	39	34	31	27	24	22	16	15	13	9				
5	62	51	44	38	55	45	39	34	34	30	26	24	21	19	14	13	12	8				
6	57	46	38	32	50	41	34	29	31	26	23	22	19	16	13	11	10	7				
7	53	41	33	28	46	36	30	25	28	23	20	20	16	14	12	10	9	6				
8	49	37	30	25	43	33	27	22	25	21	17	18	15	13	11	9	8	5				
9	45	34	26	22	40	30	24	20	23	18	15	16	13	11	10	8	7	5				
10	42	31	24	19	37	27	21	17	21	17	14	15	12	10	9	7	6	4				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2378	2378	2378
5°	2403	2377	2372
10°	2399	2384	2394
15°	2388	2398	2425
20°	2383	2416	2465
25°	2380	2431	2499
30°	2371	2443	2532
35°	2363	2451	2557
40°	2359	2452	2573
45°	2359	2453	2585
50°	2355	2450	2587
55°	2334	2441	2584
60°	2296	2399	2583
65°	2229	2374	2728
70°	2136	2377	3102
75°	1968	2726	3122
80°	1720	2757	3054
85°	1362	3131	3483



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.0	0.6
10°-20°	81.4	1.6
20°-30°	126.3	2.5
30°-40°	156.2	3.1
40°-50°	166.6	3.3
50°-60°	155.2	3.0
60°-70°	126.4	2.5
70°-80°	87.0	1.7
80°-90°	34.2	0.7
90°-100°	300.3	5.9
100°-110°	768.8	15.1
110°-120°	795.6	15.6
120°-130°	708.8	13.9
130°-140°	590.3	11.6
140°-150°	449.4	8.8
150°-160°	302.3	5.9
160°-170°	163.8	3.2
170°-180°	50.2	1.0
0°-30°	235.7	4.6
0°-40°	391.9	7.7
0°-60°	713.8	14.0
0°-90°	961.5	18.9
90°-120°	1864.6	36.6
90°-150°	3613.1	71.0
90°-180°	4129.0	81.1
0°-180°	5090.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	295	295	295	295	295	
5°	296	295	293	294	293	28
15°	286	288	287	290	290	81
25°	267	270	273	279	281	123
35°	240	244	249	257	260	150
45°	207	210	215	222	226	159
55°	166	168	173	179	184	148
65°	117	119	124	136	143	115
75°	63	67	87	98	100	67
85°	15	27	34	38	38	17
90°	2	3	3	3	3	5
95°	43	334	246	41	41	42
105°	126	530	829	975	1028	133
115°	220	548	897	1109	1158	218
125°	307	560	862	1037	1097	274
135°	379	576	812	965	1016	293
145°	441	565	749	870	911	275
155°	483	537	675	761	788	222
165°	507	521	569	624	645	143
175°	517	518	521	523	524	49
180°	517	517	517	517	517	



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CATALOG NUMBER: J3-UL-50L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	294.6	294.6	294.6	294.6	294.6
2.5°	296.5	295.9	293.3	294.0	292.7
5°	296.5	295.2	293.3	294.0	292.7
7.5°	294.6	294.0	292.0	293.3	292.7
10°	292.7	292.0	290.8	292.7	292.0
12.5°	290.1	290.1	289.5	291.4	291.4
15°	285.7	287.6	286.9	290.1	290.1
17.5°	282.5	283.8	284.4	288.2	288.9
20°	277.4	279.9	281.2	285.0	286.9
22.5°	272.9	275.5	277.4	282.5	284.4
25°	267.2	269.7	272.9	278.7	280.6
27.5°	260.2	264.6	267.8	274.8	276.7
30°	254.4	257.6	262.1	269.1	271.6
32.5°	247.4	251.2	255.7	263.3	266.5
35°	239.8	243.6	248.7	257.0	259.5
37.5°	232.1	235.3	241.0	249.3	252.5
40°	223.8	227.0	232.7	241.7	244.2
42.5°	215.5	218.7	224.5	232.7	235.9
45°	206.6	209.8	214.9	222.5	226.4
47.5°	197.0	200.2	205.3	213.0	216.8
50°	187.5	190.0	195.1	202.1	206.0
52.5°	176.6	179.2	184.3	190.7	194.5
55°	165.8	168.3	173.4	179.2	183.6
57.5°	154.3	156.9	160.7	167.1	172.2
60°	142.2	144.7	148.6	155.6	160.0
62.5°	129.4	132.0	136.5	144.1	151.1
65°	116.7	119.2	124.3	135.8	142.8
67.5°	103.9	106.5	111.0	127.5	139.0
70°	90.5	93.1	100.7	123.7	131.4
72.5°	76.5	80.3	93.1	114.1	117.3
75°	63.1	67.0	87.4	97.6	100.1
77.5°	49.1	54.8	75.9	80.3	81.6
80°	37.0	45.3	59.3	65.0	65.7
82.5°	24.9	38.9	45.9	49.7	49.7
85°	14.7	26.8	33.8	37.6	37.6
87.5°	8.3	17.9	24.9	29.3	28.7
90°	1.9	3.2	3.2	2.6	2.6
92.5°	23.0	62.5	20.4	19.1	19.1
95°	42.7	334.1	246.1	41.4	41.4
97.5°	59.3	406.2	696.9	843.6	634.5
100°	81.0	487.2	741.6	913.7	971.1
102.5°	102.0	517.1	783.7	939.3	996.6
105°	126.3	530.5	828.9	975.0	1027.9
107.5°	149.8	538.2	884.4	1006.2	1057.2
110°	174.1	542.0	917.6	1042.6	1086.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	196.4	545.2	904.8	1084.6	<i>1120.3</i>
115°	<i>220.0</i>	<i>548.4</i>	<i>897.2</i>	<i>1108.9</i>	<i>1158.0</i>
117.5°	242.9	550.3	888.2	1084.0	<i>1158.0</i>
120°	265.9	553.5	880.6	1067.4	<i>1131.8</i>
122.5°	285.0	557.3	871.7	1052.8	<i>1114.0</i>
125°	306.7	560.5	861.5	1036.8	<i>1096.8</i>
127.5°	327.8	563.7	850.0	1020.2	<i>1079.5</i>
130°	346.2	570.7	838.5	1003.7	<i>1058.5</i>
132.5°	362.8	574.5	825.8	983.9	<i>1038.1</i>
135°	379.4	575.8	812.4	964.8	<i>1016.4</i>
137.5°	395.3	575.2	799.0	943.1	<i>992.2</i>
140°	411.9	573.2	782.4	920.8	<i>967.3</i>
142.5°	426.6	569.4	765.8	895.9	<i>939.3</i>
145°	440.6	565.0	748.6	869.8	<i>910.6</i>
147.5°	452.7	557.9	735.2	841.7	<i>881.2</i>
150°	464.2	550.3	719.3	813.0	<i>848.1</i>
152.5°	472.5	543.3	699.5	785.6	<i>814.9</i>
155°	482.7	536.9	675.3	761.4	<i>787.5</i>
157.5°	489.1	531.8	649.8	731.4	<i>756.9</i>
160°	497.4	528.0	623.6	698.9	<i>722.5</i>
162.5°	503.1	524.1	594.9	662.5	<i>685.5</i>
165°	506.9	521.0	568.8	624.3	<i>645.3</i>
167.5°	510.8	519.7	549.7	584.1	<i>600.7</i>
170°	513.9	518.4	536.3	554.1	<i>563.0</i>
172.5°	515.9	517.8	525.4	535.0	<i>539.4</i>
175°	517.1	517.8	521.0	522.9	<i>524.1</i>
177.5°	517.8	517.8	517.8	517.1	<i>517.8</i>
180°	517.1	517.1	517.1	517.1	<i>517.1</i>

(END OF REPORT)