

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: P275011

Luminaire Tested: **J3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P275011  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR 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: 3904.8 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

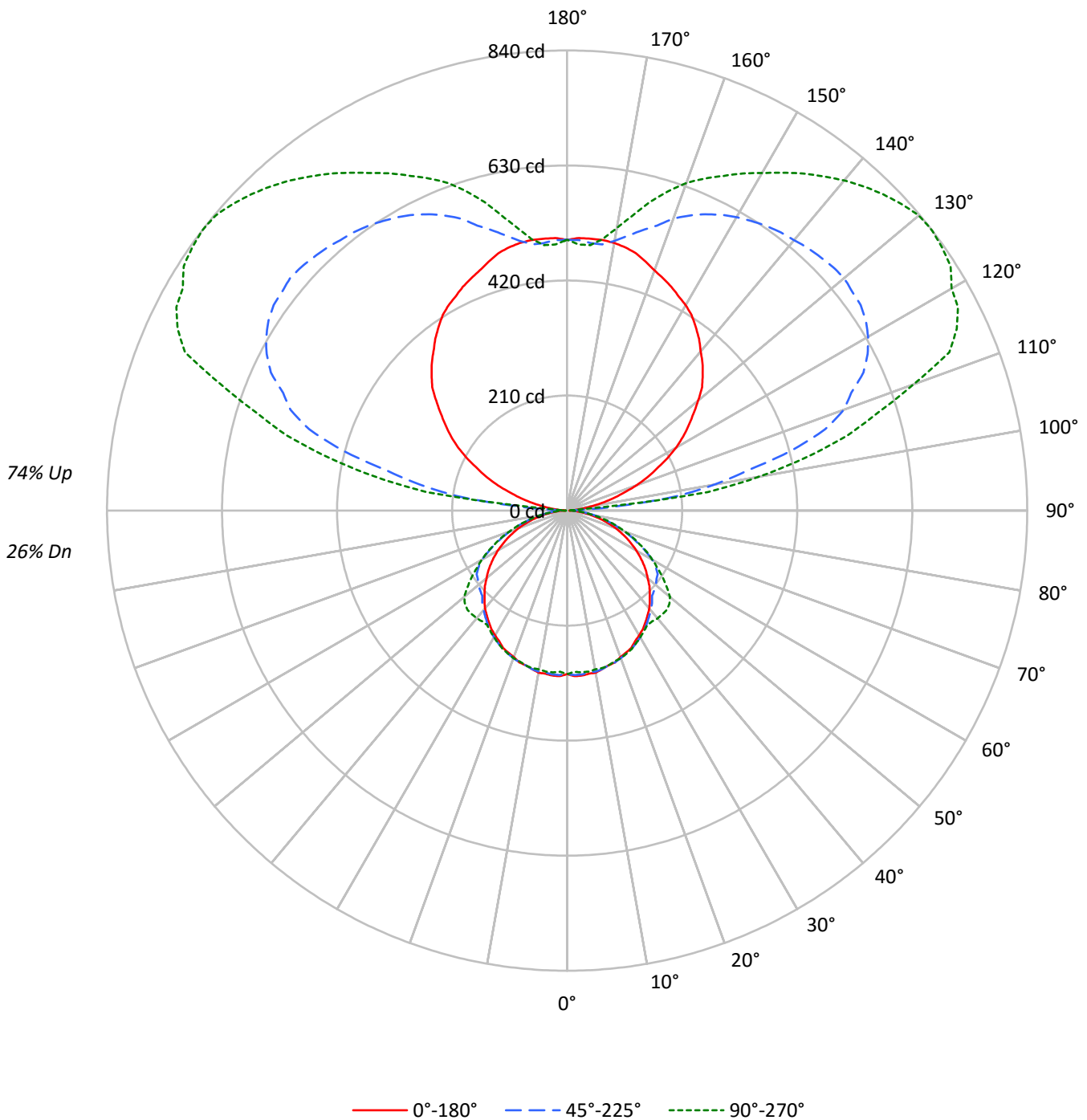
Input Watts (W): 28.4  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26				
1	92	88	84	80	82	78	75	72	61	58	56	44	43	42	29	28	28	21				
2	84	76	70	65	74	68	63	59	53	49	46	38	36	34	25	24	23	17				
3	76	67	60	54	67	60	54	49	46	42	38	34	31	29	22	21	19	14				
4	69	59	51	45	61	53	46	41	41	36	32	30	27	24	20	18	16	12				
5	63	52	44	38	56	47	40	35	36	31	28	27	23	21	18	16	14	10				
6	58	46	39	33	52	42	35	30	32	28	24	24	21	18	16	14	12	9				
7	54	42	34	29	48	37	31	26	29	24	21	22	18	16	14	12	11	8				
8	50	38	30	25	44	34	27	23	26	22	18	20	16	14	13	11	9	7				
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	8	6				
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	8	6				

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

	0°	45°	90°
0°	2409	2409	2409
5°	2451	2434	2402
10°	2463	2446	2414
15°	2445	2445	2445
20°	2445	2462	2462
25°	2465	2483	2483
30°	2450	2487	2487
35°	2454	2493	2512
40°	2458	2500	2707
45°	2436	2505	2933
50°	2408	2656	3078
55°	2393	2837	3004
60°	2361	2903	2903
65°	2304	2756	2793
70°	2240	2613	2658
75°	2096	2467	2527
80°	1929	2390	2297
85°	1834	2566	2195



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.5	0.7
10°-20°	82.6	2.1
20°-30°	127.6	3.3
30°-40°	158.3	4.1
40°-50°	177.2	4.5
50°-60°	173.1	4.4
60°-70°	136.6	3.5
70°-80°	82.6	2.1
80°-90°	29.4	0.8
90°-100°	101.4	2.6
100°-110°	392.2	10.0
110°-120°	539.0	13.8
120°-130°	545.3	14.0
130°-140°	483.3	12.4
140°-150°	382.3	9.8
150°-160°	266.9	6.8
160°-170°	151.0	3.9
170°-180°	47.3	1.2
0°-30°	238.7	6.1
0°-40°	397.0	10.2
0°-60°	747.3	19.1
0°-90°	995.9	25.5
90°-120°	1032.7	26.4
90°-150°	2443.6	62.6
90°-180°	2909.0	74.5
0°-180°	3904.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	298	298	298	298	298	
5°	302	298	300	298	296	29
15°	292	290	292	292	292	83
25°	277	273	279	279	279	127
35°	249	249	253	255	255	156
45°	213	215	219	247	257	165
55°	170	172	202	213	213	152
65°	121	126	144	146	146	119
75°	67	79	79	81	81	71
85°	20	32	28	26	24	21
90°	4	12	10	2	2	4
95°	16	79	95	20	20	20
105°	87	281	425	490	530	92
115°	180	379	597	739	785	179
125°	271	439	654	796	836	242
135°	350	482	654	783	816	269
145°	409	494	634	727	751	256
155°	451	482	597	662	674	208
165°	486	484	530	575	583	137
175°	498	492	490	490	486	47
180°	494	494	494	494	494	



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CATALOG NUMBER: J3-CL-40L82765-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	298.4	298.4	298.4	298.4	298.4
2.5°	302.4	298.4	300.4	298.4	294.5
5°	302.4	298.4	300.4	298.4	296.4
7.5°	300.4	298.4	298.4	296.4	296.4
10°	300.4	296.4	298.4	296.4	294.5
12.5°	296.4	294.5	296.4	294.5	294.5
15°	292.5	290.5	292.5	292.5	292.5
17.5°	290.5	286.6	290.5	290.5	288.5
20°	284.6	282.6	286.6	286.6	286.6
22.5°	280.6	278.7	282.6	282.6	282.6
25°	276.7	272.7	278.7	278.7	278.7
27.5°	268.8	268.8	272.7	274.7	272.7
30°	262.8	260.9	266.8	268.8	266.8
32.5°	256.9	254.9	260.9	262.8	260.9
35°	249.0	249.0	253.0	254.9	254.9
37.5°	241.1	241.1	245.1	247.0	254.9
40°	233.2	233.2	237.2	249.0	256.9
42.5°	223.3	223.3	229.2	247.0	256.9
45°	213.4	215.4	219.4	247.0	256.9
47.5°	203.6	205.5	215.4	245.1	253.0
50°	191.7	195.6	211.5	239.1	245.1
52.5°	181.8	183.8	205.5	229.2	229.2
55°	170.0	171.9	201.6	213.4	213.4
57.5°	158.1	160.1	191.7	195.6	195.6
60°	146.2	148.2	179.8	179.8	179.8
62.5°	132.4	136.4	162.1	164.0	164.0
65°	120.6	126.5	144.3	146.2	146.2
67.5°	106.7	116.6	128.5	130.4	130.4
70°	94.9	106.7	110.7	112.6	112.6
72.5°	81.0	92.9	94.9	96.8	96.8
75°	67.2	79.1	79.1	81.0	81.0
77.5°	53.4	63.2	65.2	65.2	65.2
80°	41.5	47.4	51.4	49.4	49.4
82.5°	29.6	37.5	37.5	37.5	35.6
85°	19.8	31.6	27.7	25.7	23.7
87.5°	11.9	27.7	15.8	13.8	13.8
90°	4.0	11.9	9.9	2.0	2.0
92.5°	7.9	19.8	9.9	7.9	5.9
95°	15.8	79.1	94.9	19.8	19.8
97.5°	29.6	132.4	203.6	241.1	258.9
100°	45.5	197.6	272.7	334.0	355.7
102.5°	65.2	239.1	336.0	413.0	444.7
105°	87.0	280.6	424.9	490.1	529.6
107.5°	108.7	312.2	494.1	567.2	594.9
110°	134.4	337.9	537.5	664.0	671.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	158.1	357.7	561.3	711.5	754.9
115°	179.8	379.4	596.8	739.1	784.6
117.5°	205.5	395.3	618.6	754.9	804.3
120°	229.2	409.1	634.4	774.7	810.3
122.5°	251.0	424.9	646.2	790.5	830.0
125°	270.7	438.7	654.1	796.4	836.0
127.5°	290.5	450.6	656.1	798.4	839.9
130°	312.2	462.4	660.1	796.4	837.9
132.5°	334.0	474.3	658.1	790.5	828.1
135°	349.8	482.2	654.1	782.6	816.2
137.5°	365.6	488.1	650.2	770.7	802.4
140°	379.4	492.1	644.3	756.9	786.6
142.5°	395.3	494.1	640.3	743.1	768.8
145°	409.1	494.1	634.4	727.3	751.0
147.5°	422.9	492.1	626.5	711.5	731.2
150°	432.8	488.1	618.6	695.6	711.5
152.5°	440.7	484.2	608.7	677.9	693.7
155°	450.6	482.2	596.8	662.0	673.9
157.5°	458.5	482.2	583.0	644.3	656.1
160°	466.4	482.2	567.2	626.5	636.4
162.5°	476.3	482.2	545.4	600.8	610.7
165°	486.2	484.2	529.6	575.1	583.0
167.5°	492.1	484.2	513.8	543.5	551.4
170°	496.0	488.1	500.0	521.7	523.7
172.5°	498.0	492.1	490.1	500.0	500.0
175°	498.0	492.1	490.1	490.1	486.2
177.5°	498.0	494.1	494.1	492.1	486.2
180°	494.1	494.1	494.1	494.1	494.1

(END OF REPORT)