

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: P253442

Luminaire Tested: **J3-CL-40L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253442  
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-40L83050-1D-UNV-W2A-W-4 (3000K)  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (336) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3633.9 lumens  
Efficiency: N/A  
Efficacy: 130.7 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

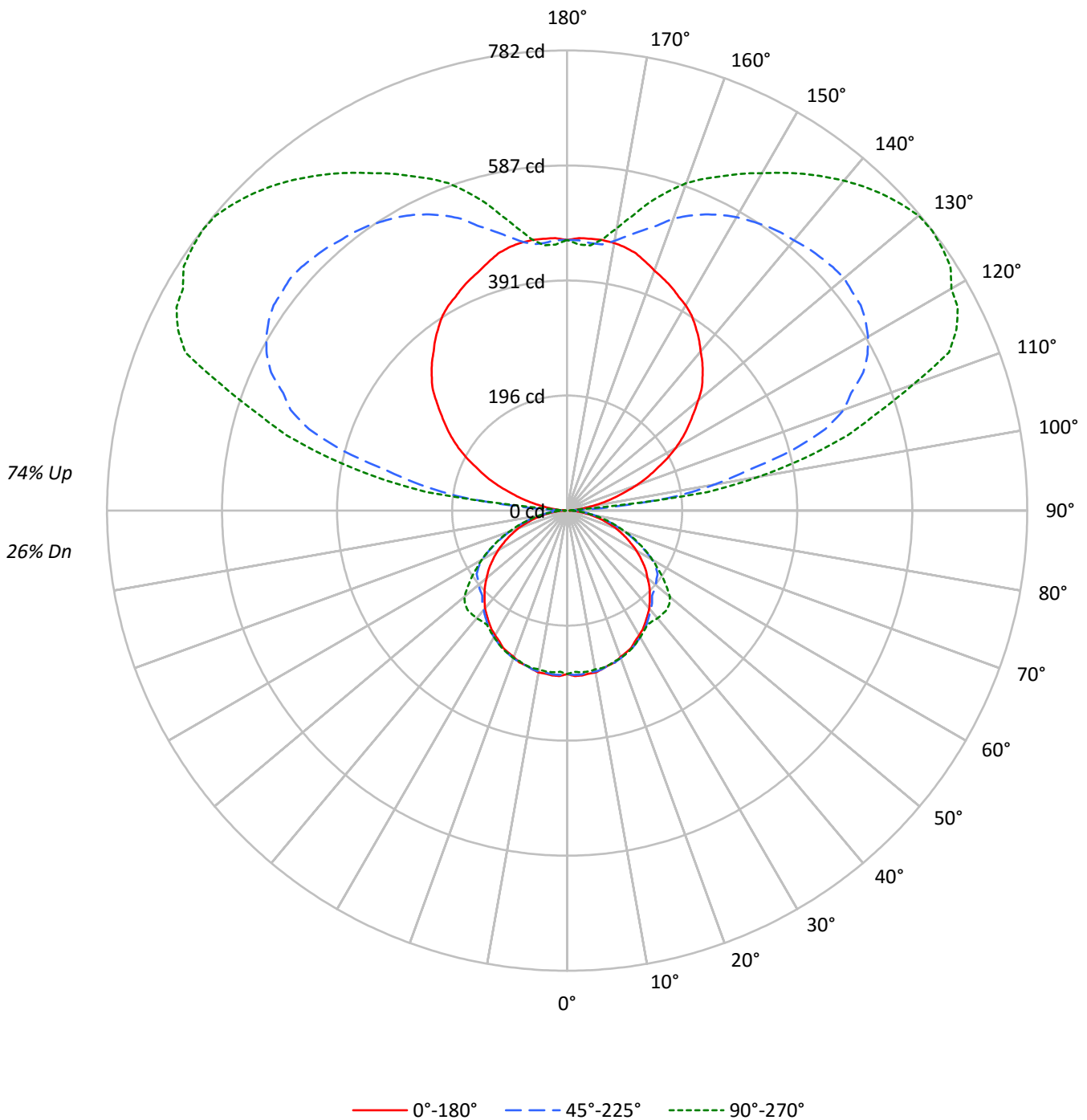
Input Watts (W): 27.8  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2242	2242	2242
5°	2280	2265	2236
10°	2291	2276	2246
15°	2275	2275	2275
20°	2275	2291	2291
25°	2294	2310	2310
30°	2280	2315	2315
35°	2283	2320	2338
40°	2287	2326	2520
45°	2267	2330	2730
50°	2241	2472	2865
55°	2227	2640	2795
60°	2197	2703	2703
65°	2143	2565	2600
70°	2084	2431	2474
75°	1949	2296	2352
80°	1795	2222	2139
85°	1704	2381	2047



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.5	0.7
10°-20°	76.9	2.1
20°-30°	118.8	3.3
30°-40°	147.3	4.1
40°-50°	164.9	4.5
50°-60°	161.1	4.4
60°-70°	127.1	3.5
70°-80°	76.9	2.1
80°-90°	27.4	0.8
90°-100°	94.4	2.6
100°-110°	365.0	10.0
110°-120°	501.6	13.8
120°-130°	507.5	14.0
130°-140°	449.8	12.4
140°-150°	355.7	9.8
150°-160°	248.4	6.8
160°-170°	140.6	3.9
170°-180°	44.1	1.2
0°-30°	222.1	6.1
0°-40°	369.5	10.2
0°-60°	695.4	19.1
0°-90°	926.8	25.5
90°-120°	961.0	26.4
90°-150°	2274.0	62.6
90°-180°	2707.0	74.5
0°-180°	3633.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	281	278	280	278	276	27
15°	272	270	272	272	272	77
25°	258	254	259	259	259	118
35°	232	232	235	237	237	145
45°	199	200	204	230	239	153
55°	158	160	188	199	199	141
65°	112	118	134	136	136	111
75°	62	74	74	75	75	66
85°	18	29	26	24	22	19
90°	4	11	9	2	2	4
95°	15	74	88	18	18	18
105°	81	261	395	456	493	86
115°	167	353	555	688	730	167
125°	252	408	609	741	778	225
135°	326	449	609	728	760	251
145°	381	460	590	677	699	238
155°	419	449	555	616	627	193
165°	452	451	493	535	542	127
175°	464	458	456	456	452	44
180°	460	460	460	460	460	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	277.7	277.7	277.7	277.7	277.7
2.5°	281.4	277.7	279.5	277.7	274.0
5°	281.4	277.7	279.5	277.7	275.9
7.5°	279.5	277.7	277.7	275.9	275.9
10°	279.5	275.9	277.7	275.9	274.0
12.5°	275.9	274.0	275.9	274.0	274.0
15°	272.2	270.4	272.2	272.2	272.2
17.5°	270.4	266.7	270.4	270.4	268.5
20°	264.8	263.0	266.7	266.7	266.7
22.5°	261.2	259.3	263.0	263.0	263.0
25°	257.5	253.8	259.3	259.3	259.3
27.5°	250.1	250.1	253.8	255.6	253.8
30°	244.6	242.8	248.3	250.1	248.3
32.5°	239.1	237.2	242.8	244.6	242.8
35°	231.7	231.7	235.4	237.2	237.2
37.5°	224.4	224.4	228.1	229.9	237.2
40°	217.0	217.0	220.7	231.7	239.1
42.5°	207.8	207.8	213.3	229.9	239.1
45°	198.6	200.5	204.1	229.9	239.1
47.5°	189.4	191.3	200.5	228.1	235.4
50°	178.4	182.1	196.8	222.5	228.1
52.5°	169.2	171.0	191.3	213.3	213.3
55°	158.2	160.0	187.6	198.6	198.6
57.5°	147.1	149.0	178.4	182.1	182.1
60°	136.1	137.9	167.4	167.4	167.4
62.5°	123.2	126.9	150.8	152.6	152.6
65°	112.2	117.7	134.3	136.1	136.1
67.5°	99.3	108.5	119.5	121.4	121.4
70°	88.3	99.3	103.0	104.8	104.8
72.5°	75.4	86.4	88.3	90.1	90.1
75°	62.5	73.6	73.6	75.4	75.4
77.5°	49.7	58.9	60.7	60.7	60.7
80°	38.6	44.1	47.8	46.0	46.0
82.5°	27.6	34.9	34.9	34.9	33.1
85°	18.4	29.4	25.7	23.9	22.1
87.5°	11.0	25.7	14.7	12.9	12.9
90°	3.7	11.0	9.2	1.8	1.8
92.5°	7.4	18.4	9.2	7.4	5.5
95°	14.7	73.6	88.3	18.4	18.4
97.5°	27.6	123.2	189.4	224.4	240.9
100°	42.3	183.9	253.8	310.8	331.0
102.5°	60.7	222.5	312.7	384.4	413.8
105°	80.9	261.2	395.4	456.1	492.9
107.5°	101.2	290.6	459.8	527.8	553.6
110°	125.1	314.5	500.2	617.9	625.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	147.1	332.9	522.3	662.1	702.5
115°	167.4	353.1	555.4	687.8	730.1
117.5°	191.3	367.8	575.6	702.5	748.5
120°	213.3	380.7	590.4	720.9	754.0
122.5°	233.6	395.4	601.4	735.7	772.4
125°	252.0	408.3	608.8	741.2	778.0
127.5°	270.4	419.3	610.6	743.0	781.6
130°	290.6	430.4	614.3	741.2	779.8
132.5°	310.8	441.4	612.4	735.7	770.6
135°	325.5	448.7	608.8	728.3	759.6
137.5°	340.2	454.3	605.1	717.3	746.7
140°	353.1	457.9	599.6	704.4	732.0
142.5°	367.8	459.8	595.9	691.5	715.4
145°	380.7	459.8	590.4	676.8	698.9
147.5°	393.6	457.9	583.0	662.1	680.5
150°	402.8	454.3	575.6	647.4	662.1
152.5°	410.1	450.6	566.5	630.8	645.5
155°	419.3	448.7	555.4	616.1	627.1
157.5°	426.7	448.7	542.5	599.6	610.6
160°	434.0	448.7	527.8	583.0	592.2
162.5°	443.2	448.7	507.6	559.1	568.3
165°	452.4	450.6	492.9	535.2	542.5
167.5°	457.9	450.6	478.2	505.8	513.1
170°	461.6	454.3	465.3	485.5	487.4
172.5°	463.5	457.9	456.1	465.3	465.3
175°	463.5	457.9	456.1	456.1	452.4
177.5°	463.5	459.8	459.8	457.9	452.4
180°	459.8	459.8	459.8	459.8	459.8

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