

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: P253321

Luminaire Tested: **J3-CL-40L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253321  
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-40L830-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
Light Source: (224) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

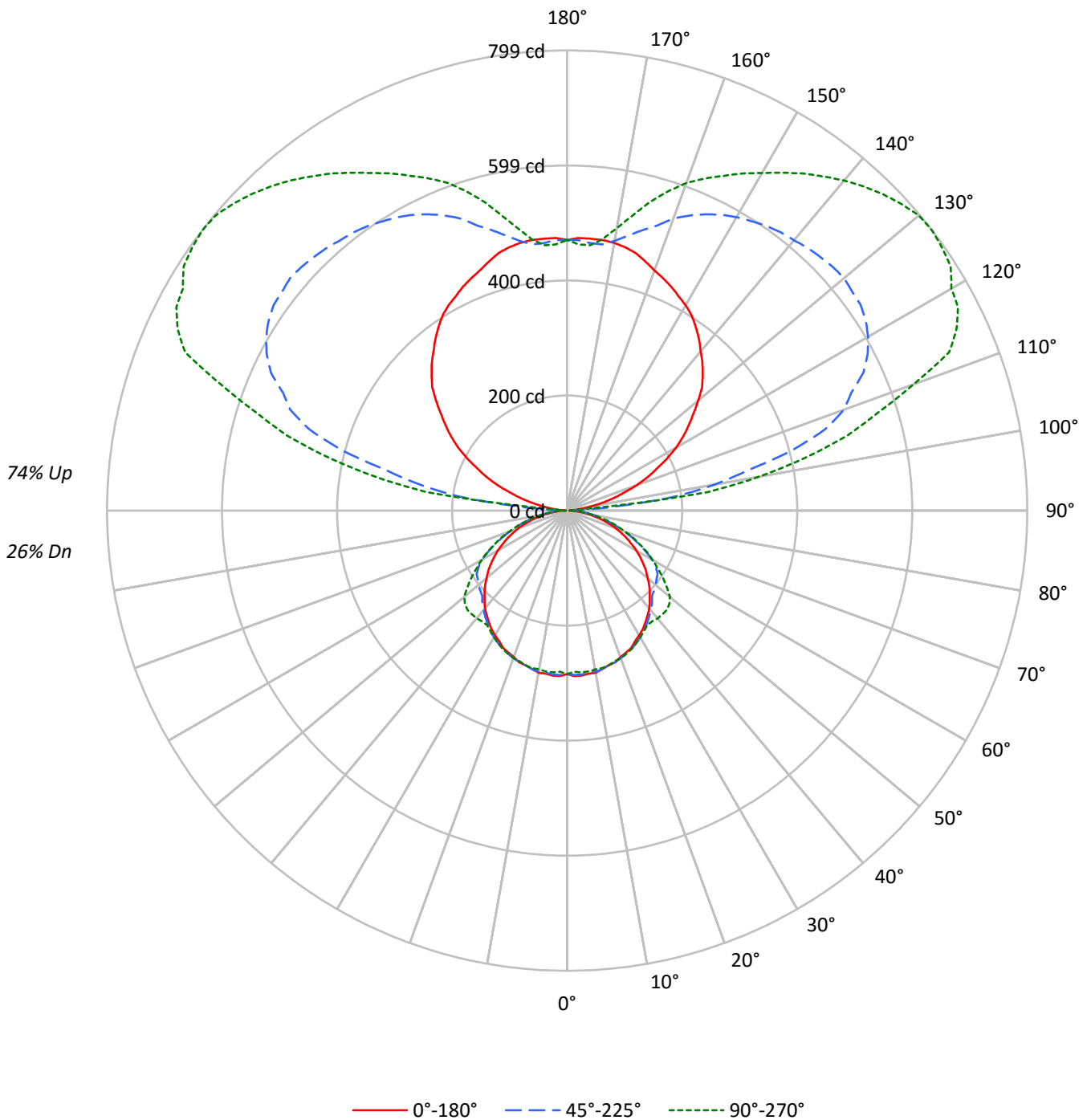
Lumens per Lamp: N/A  
Luminaire Lumens: 3713.9 lumens  
Efficiency: N/A  
Efficacy: 143.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 25.9  
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	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°	2291	2291	2291
5°	2331	2315	2284
10°	2342	2326	2296
15°	2325	2325	2325
20°	2326	2341	2341
25°	2344	2360	2360
30°	2330	2366	2366
35°	2334	2371	2390
40°	2337	2377	2576
45°	2318	2382	2790
50°	2290	2526	2928
55°	2274	2698	2857
60°	2246	2761	2761
65°	2191	2621	2657
70°	2129	2485	2528
75°	1993	2346	2405
80°	1836	2273	2185
85°	1741	2436	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.1	0.7
10°-20°	78.5	2.1
20°-30°	121.4	3.3
30°-40°	150.6	4.1
40°-50°	168.5	4.5
50°-60°	164.6	4.4
60°-70°	129.9	3.5
70°-80°	78.6	2.1
80°-90°	28.0	0.8
90°-100°	96.5	2.6
100°-110°	373.1	10.0
110°-120°	512.7	13.8
120°-130°	518.7	14.0
130°-140°	459.7	12.4
140°-150°	363.6	9.8
150°-160°	253.8	6.8
160°-170°	143.7	3.9
170°-180°	45.0	1.2
0°-30°	227.0	6.1
0°-40°	377.6	10.2
0°-60°	710.8	19.1
0°-90°	947.2	25.5
90°-120°	982.2	26.4
90°-150°	2324.1	62.6
90°-180°	2767.0	74.5
0°-180°	3713.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	288	284	286	284	282	27
15°	278	276	278	278	278	79
25°	263	259	265	265	265	121
35°	237	237	241	242	242	148
45°	203	205	209	235	244	157
55°	162	164	192	203	203	144
65°	115	120	137	139	139	113
75°	64	75	75	77	77	68
85°	19	30	26	24	23	20
90°	4	11	9	2	2	4
95°	15	75	90	19	19	19
105°	83	267	404	466	504	88
115°	171	361	568	703	746	171
125°	258	417	622	758	795	230
135°	333	459	622	744	776	256
145°	389	470	603	692	714	243
155°	429	459	568	630	641	198
165°	462	460	504	547	554	130
175°	474	468	466	466	462	45
180°	470	470	470	470	470	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	283.8	283.8	283.8	283.8	283.8
2.5°	287.6	283.8	285.7	283.8	280.1
5°	287.6	283.8	285.7	283.8	281.9
7.5°	285.7	283.8	283.8	281.9	281.9
10°	285.7	281.9	283.8	281.9	280.1
12.5°	281.9	280.1	281.9	280.1	280.1
15°	278.2	276.3	278.2	278.2	278.2
17.5°	276.3	272.5	276.3	276.3	274.4
20°	270.7	268.8	272.5	272.5	272.5
22.5°	266.9	265.0	268.8	268.8	268.8
25°	263.1	259.4	265.0	265.0	265.0
27.5°	255.6	255.6	259.4	261.3	259.4
30°	250.0	248.1	253.8	255.6	253.8
32.5°	244.4	242.5	248.1	250.0	248.1
35°	236.8	236.8	240.6	242.5	242.5
37.5°	229.3	229.3	233.1	235.0	242.5
40°	221.8	221.8	225.6	236.8	244.4
42.5°	212.4	212.4	218.0	235.0	244.4
45°	203.0	204.9	208.6	235.0	244.4
47.5°	193.6	195.5	204.9	233.1	240.6
50°	182.3	186.1	201.1	227.4	233.1
52.5°	172.9	174.8	195.5	218.0	218.0
55°	161.6	163.5	191.7	203.0	203.0
57.5°	150.4	152.3	182.3	186.1	186.1
60°	139.1	141.0	171.0	171.0	171.0
62.5°	125.9	129.7	154.1	156.0	156.0
65°	114.7	120.3	137.2	139.1	139.1
67.5°	101.5	110.9	122.2	124.1	124.1
70°	90.2	101.5	105.3	107.1	107.1
72.5°	77.1	88.3	90.2	92.1	92.1
75°	63.9	75.2	75.2	77.1	77.1
77.5°	50.8	60.1	62.0	62.0	62.0
80°	39.5	45.1	48.9	47.0	47.0
82.5°	28.2	35.7	35.7	35.7	33.8
85°	18.8	30.1	26.3	24.4	22.6
87.5°	11.3	26.3	15.0	13.2	13.2
90°	3.8	11.3	9.4	1.9	1.9
92.5°	7.5	18.8	9.4	7.5	5.6
95°	15.0	75.2	90.2	18.8	18.8
97.5°	28.2	125.9	193.6	229.3	246.2
100°	43.2	188.0	259.4	317.7	338.3
102.5°	62.0	227.4	319.5	392.8	422.9
105°	82.7	266.9	404.1	466.1	503.7
107.5°	103.4	297.0	469.9	539.5	565.8
110°	127.8	321.4	511.3	631.6	639.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	150.4	340.2	533.8	676.7	718.0
115°	171.0	360.9	567.6	703.0	746.2
117.5°	195.5	375.9	588.3	718.0	765.0
120°	218.0	389.1	603.4	736.8	770.6
122.5°	238.7	404.1	614.6	751.9	789.4
125°	257.5	417.3	622.2	757.5	795.1
127.5°	276.3	428.6	624.0	759.4	798.8
130°	297.0	439.8	627.8	757.5	797.0
132.5°	317.7	451.1	625.9	751.9	787.6
135°	332.7	458.6	622.2	744.3	776.3
137.5°	347.7	464.3	618.4	733.1	763.1
140°	360.9	468.0	612.8	719.9	748.1
142.5°	375.9	469.9	609.0	706.7	731.2
145°	389.1	469.9	603.4	691.7	714.3
147.5°	402.2	468.0	595.8	676.7	695.5
150°	411.6	464.3	588.3	661.6	676.7
152.5°	419.2	460.5	578.9	644.7	659.8
155°	428.6	458.6	567.6	629.7	641.0
157.5°	436.1	458.6	554.5	612.8	624.0
160°	443.6	458.6	539.5	595.8	605.2
162.5°	453.0	458.6	518.8	571.4	580.8
165°	462.4	460.5	503.7	547.0	554.5
167.5°	468.0	460.5	488.7	516.9	524.4
170°	471.8	464.3	475.5	496.2	498.1
172.5°	473.7	468.0	466.1	475.5	475.5
175°	473.7	468.0	466.1	466.1	462.4
177.5°	473.7	469.9	469.9	468.0	462.4
180°	469.9	469.9	469.9	469.9	469.9

(END OF REPORT)