

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: P253333

Luminaire Tested: **J3-CL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253333  
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-40L840-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, CLEAR TOP.  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

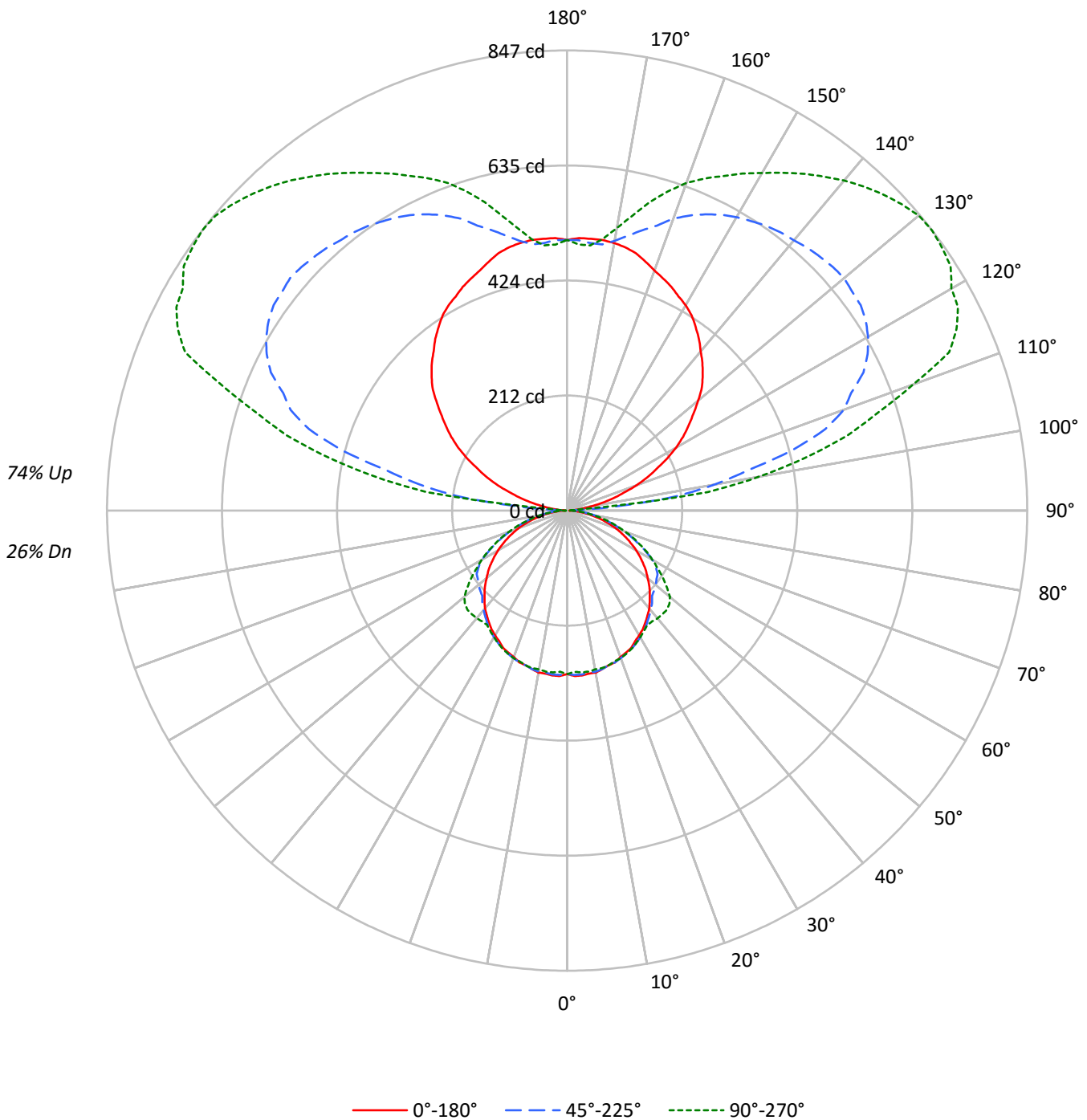
Lumens per Lamp: N/A  
Luminaire Lumens: 3936.7 lumens  
Efficiency: N/A  
Efficacy: 152.0 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.33 / 1.46  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

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	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°	2429	2429	2429
5°	2470	2454	2422
10°	2482	2467	2434
15°	2465	2465	2465
20°	2465	2482	2482
25°	2484	2502	2502
30°	2470	2508	2508
35°	2474	2513	2533
40°	2478	2520	2729
45°	2457	2525	2957
50°	2428	2678	3103
55°	2411	2860	3029
60°	2380	2927	2927
65°	2321	2777	2816
70°	2257	2634	2681
75°	2112	2486	2548
80°	1943	2408	2315
85°	1843	2584	2214



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.7	0.7
10°-20°	83.3	2.1
20°-30°	128.7	3.3
30°-40°	159.6	4.1
40°-50°	178.6	4.5
50°-60°	174.5	4.4
60°-70°	137.7	3.5
70°-80°	83.3	2.1
80°-90°	29.7	0.8
90°-100°	102.3	2.6
100°-110°	395.4	10.0
110°-120°	543.4	13.8
120°-130°	549.8	14.0
130°-140°	487.3	12.4
140°-150°	385.4	9.8
150°-160°	269.1	6.8
160°-170°	152.3	3.9
170°-180°	47.7	1.2
0°-30°	240.6	6.1
0°-40°	400.3	10.2
0°-60°	753.4	19.1
0°-90°	1004.1	25.5
90°-120°	1041.1	26.4
90°-150°	2463.5	62.6
90°-180°	2933.0	74.5
0°-180°	3936.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	301	301	301	301	301	
5°	305	301	303	301	299	29
15°	295	293	295	295	295	84
25°	279	275	281	281	281	128
35°	251	251	255	257	257	157
45°	215	217	221	249	259	166
55°	171	173	203	215	215	153
65°	122	128	145	147	147	120
75°	68	80	80	82	82	72
85°	20	32	28	26	24	21
90°	4	12	10	2	2	4
95°	16	80	96	20	20	20
105°	88	283	428	494	534	93
115°	181	382	602	745	791	181
125°	273	442	660	803	843	244
135°	353	486	660	789	823	272
145°	412	498	640	733	757	258
155°	454	486	602	668	679	209
165°	490	488	534	580	588	138
175°	502	496	494	494	490	48
180°	498	498	498	498	498	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	300.9	300.9	300.9	300.9	300.9
2.5°	304.8	300.9	302.8	300.9	296.9
5°	304.8	300.9	302.8	300.9	298.9
7.5°	302.8	300.9	300.9	298.9	298.9
10°	302.8	298.9	300.9	298.9	296.9
12.5°	298.9	296.9	298.9	296.9	296.9
15°	294.9	292.9	294.9	294.9	294.9
17.5°	292.9	288.9	292.9	292.9	290.9
20°	286.9	284.9	288.9	288.9	288.9
22.5°	282.9	280.9	284.9	284.9	284.9
25°	278.9	275.0	280.9	280.9	280.9
27.5°	271.0	271.0	275.0	276.9	275.0
30°	265.0	263.0	269.0	271.0	269.0
32.5°	259.0	257.0	263.0	265.0	263.0
35°	251.0	251.0	255.0	257.0	257.0
37.5°	243.1	243.1	247.1	249.1	257.0
40°	235.1	235.1	239.1	251.0	259.0
42.5°	225.1	225.1	231.1	249.1	259.0
45°	215.2	217.2	221.2	249.1	259.0
47.5°	205.2	207.2	217.2	247.1	255.0
50°	193.3	197.2	213.2	241.1	247.1
52.5°	183.3	185.3	207.2	231.1	231.1
55°	171.3	173.3	203.2	215.2	215.2
57.5°	159.4	161.4	193.3	197.2	197.2
60°	147.4	149.4	181.3	181.3	181.3
62.5°	133.5	137.5	163.4	165.4	165.4
65°	121.5	127.5	145.4	147.4	147.4
67.5°	107.6	117.6	129.5	131.5	131.5
70°	95.6	107.6	111.6	113.6	113.6
72.5°	81.7	93.6	95.6	97.6	97.6
75°	67.7	79.7	79.7	81.7	81.7
77.5°	53.8	63.8	65.7	65.7	65.7
80°	41.8	47.8	51.8	49.8	49.8
82.5°	29.9	37.9	37.9	37.9	35.9
85°	19.9	31.9	27.9	25.9	23.9
87.5°	12.0	27.9	15.9	13.9	13.9
90°	4.0	12.0	10.0	2.0	2.0
92.5°	8.0	19.9	10.0	8.0	6.0
95°	15.9	79.7	95.6	19.9	19.9
97.5°	29.9	133.5	205.2	243.1	261.0
100°	45.8	199.2	275.0	336.7	358.6
102.5°	65.7	241.1	338.7	416.4	448.3
105°	87.7	282.9	428.4	494.1	534.0
107.5°	109.6	314.8	498.1	571.8	599.7
110°	135.5	340.7	541.9	669.4	677.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	159.4	360.6	565.8	717.3	761.1
115°	181.3	382.5	601.7	745.2	791.0
117.5°	207.2	398.5	623.6	761.1	810.9
120°	231.1	412.4	639.6	781.0	816.9
122.5°	253.0	428.4	651.5	797.0	836.8
125°	273.0	442.3	659.5	802.9	842.8
127.5°	292.9	454.3	661.5	804.9	846.8
130°	314.8	466.2	665.5	802.9	844.8
132.5°	336.7	478.2	663.5	797.0	834.8
135°	352.7	486.1	659.5	789.0	822.9
137.5°	368.6	492.1	655.5	777.0	808.9
140°	382.5	496.1	649.5	763.1	793.0
142.5°	398.5	498.1	645.5	749.1	775.0
145°	412.4	498.1	639.6	733.2	757.1
147.5°	426.4	496.1	631.6	717.3	737.2
150°	436.3	492.1	623.6	701.3	717.3
152.5°	444.3	488.1	613.7	683.4	699.3
155°	454.3	486.1	601.7	667.5	679.4
157.5°	462.2	486.1	587.8	649.5	661.5
160°	470.2	486.1	571.8	631.6	641.6
162.5°	480.2	486.1	549.9	605.7	615.7
165°	490.1	488.1	534.0	579.8	587.8
167.5°	496.1	488.1	518.0	547.9	555.9
170°	500.1	492.1	504.1	526.0	528.0
172.5°	502.1	496.1	494.1	504.1	504.1
175°	502.1	496.1	494.1	494.1	490.1
177.5°	502.1	498.1	498.1	496.1	490.1
180°	498.1	498.1	498.1	498.1	498.1

(END OF REPORT)