

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: P253316

Luminaire Tested: **J3-UL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253316  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: J3-UL-50L840-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
Light Source: (224) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

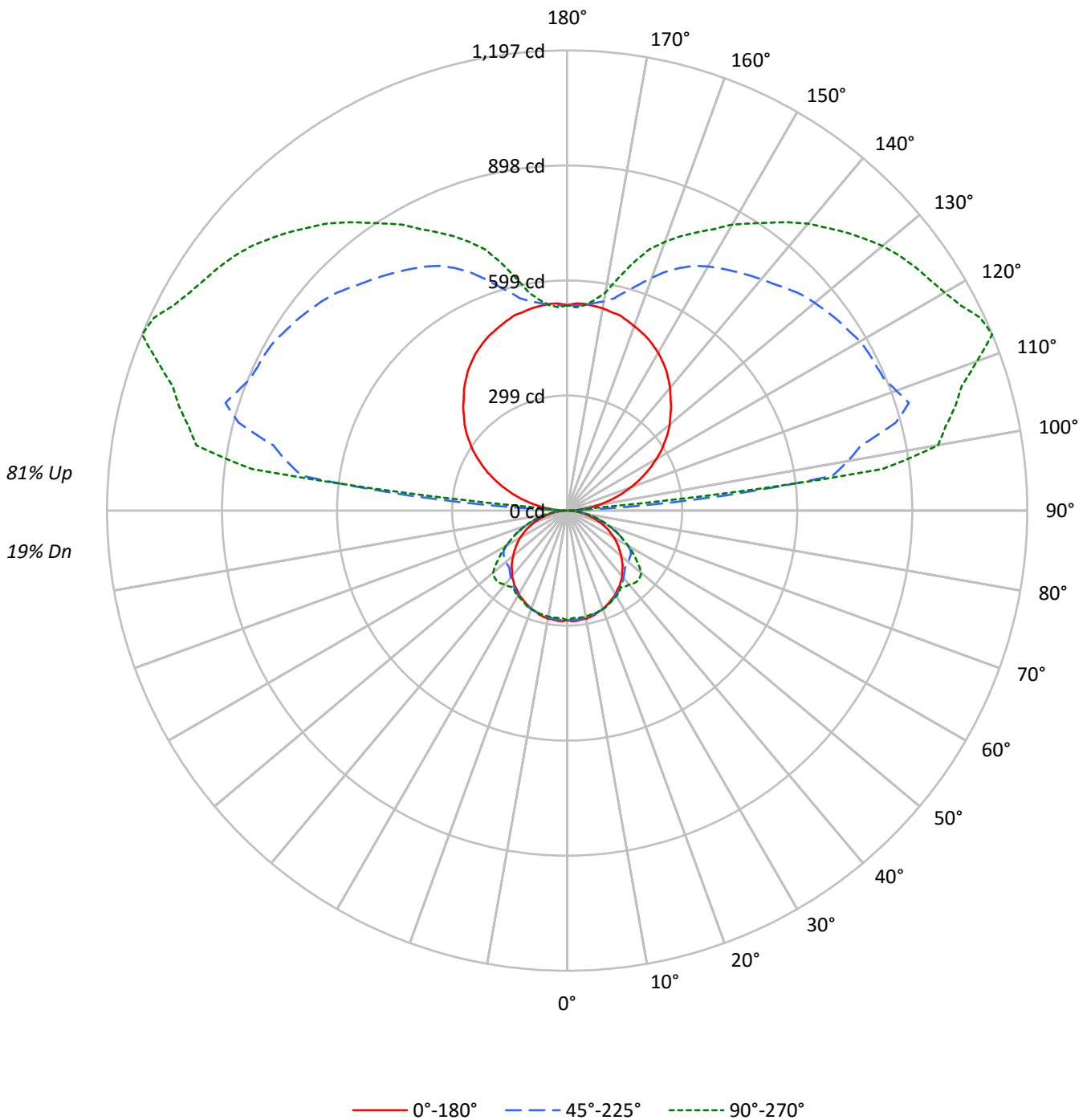
Lumens per Lamp: N/A  
Luminaire Lumens: 5173.4 lumens  
Efficiency: N/A  
Efficacy: 154.4 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.33 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 33.5  
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	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	36	30	28	26	18	17	16	10
4	68	58	50	44	60	51	45	40	39	34	31	27	24	22	16	15	13	9
5	62	51	43	38	55	45	39	34	34	30	26	24	21	19	14	13	11	7
6	57	46	38	32	50	40	34	29	31	26	23	21	18	16	13	11	10	6
7	53	41	33	28	46	36	30	25	28	23	20	19	16	14	12	10	9	6
8	49	37	30	24	43	33	26	22	25	20	17	18	15	12	11	9	8	5
9	45	33	26	21	40	30	24	19	23	18	15	16	13	11	10	8	7	4
10	42	30	24	19	37	27	21	17	21	16	13	15	12	10	9	7	6	4

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

	0°	45°	90°
0°	2304	2304	2304
5°	2334	2313	2271
10°	2340	2318	2297
15°	2342	2320	2320
20°	2339	2339	2339
25°	2333	2356	2356
30°	2344	2368	2392
35°	2349	2374	2400
40°	2346	2401	2649
45°	2331	2422	2959
50°	2302	2631	3157
55°	2286	2837	3058
60°	2283	2960	2960
65°	2250	2852	2852
70°	2164	2719	2719
75°	2043	2533	2614
80°	1948	2436	2436
85°	1695	2908	2427



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.0	0.5
10°-20°	78.4	1.5
20°-30°	121.6	2.4
30°-40°	151.6	2.9
40°-50°	172.8	3.3
50°-60°	172.6	3.3
60°-70°	137.4	2.7
70°-80°	84.7	1.6
80°-90°	30.3	0.6
90°-100°	321.5	6.2
100°-110°	783.3	15.1
110°-120°	800.8	15.5
120°-130°	710.7	13.7
130°-140°	594.8	11.5
140°-150°	455.1	8.8
150°-160°	309.7	6.0
160°-170°	169.4	3.3
170°-180°	51.8	1.0
0°-30°	227.1	4.4
0°-40°	378.6	7.3
0°-60°	724.0	14.0
0°-90°	976.4	18.9
90°-120°	1905.6	36.8
90°-150°	3666.2	70.9
90°-180°	4197.0	81.1
0°-180°	5173.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	285	285	285	285	285	
5°	288	283	285	283	280	27
15°	280	278	278	278	278	79
25°	262	262	264	264	264	121
35°	238	238	241	244	244	149
45°	204	204	212	246	259	157
55°	162	165	202	217	217	145
65°	118	126	149	149	149	116
75°	66	81	81	84	84	69
85°	18	26	31	29	26	21
90°	5	10	5	0	0	6
95°	42	343	343	42	42	42
105°	128	526	885	990	1045	135
115°	223	537	888	1110	1186	220
125°	309	555	862	1047	1105	277
135°	382	579	814	977	1024	295
145°	448	574	759	882	914	280
155°	495	545	696	783	799	228
165°	526	537	589	649	668	148
175°	539	534	537	539	537	51
180°	534	534	534	534	534	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	285.4	285.4	285.4	285.4	285.4
2.5°	288.0	285.4	285.4	282.8	280.2
5°	288.0	282.8	285.4	282.8	280.2
7.5°	285.4	282.8	282.8	282.8	280.2
10°	285.4	280.2	282.8	280.2	280.2
12.5°	282.8	280.2	280.2	280.2	277.6
15°	280.2	277.6	277.6	277.6	277.6
17.5°	275.0	272.3	275.0	275.0	275.0
20°	272.3	269.7	272.3	272.3	272.3
22.5°	267.1	264.5	269.7	269.7	269.7
25°	261.9	261.9	264.5	264.5	264.5
27.5°	256.6	256.6	259.2	261.9	259.2
30°	251.4	248.8	254.0	256.6	256.6
32.5°	243.5	243.5	248.8	248.8	251.4
35°	238.3	238.3	240.9	243.5	243.5
37.5°	230.4	230.4	235.7	238.3	248.8
40°	222.6	222.6	227.8	240.9	251.4
42.5°	212.1	214.7	220.0	240.9	256.6
45°	204.2	204.2	212.1	246.1	259.2
47.5°	193.8	196.4	209.5	246.1	256.6
50°	183.3	185.9	209.5	243.5	251.4
52.5°	172.8	175.4	204.2	233.1	235.7
55°	162.4	165.0	201.6	217.3	217.3
57.5°	151.9	154.5	196.4	201.6	201.6
60°	141.4	144.0	183.3	183.3	183.3
62.5°	128.3	130.9	165.0	165.0	165.0
65°	117.8	125.7	149.3	149.3	149.3
67.5°	104.7	115.2	130.9	133.5	133.5
70°	91.7	107.4	115.2	115.2	115.2
72.5°	78.6	96.9	96.9	99.5	99.5
75°	65.5	81.2	81.2	83.8	83.8
77.5°	52.4	65.5	65.5	68.1	68.1
80°	41.9	49.8	52.4	52.4	52.4
82.5°	31.4	39.3	39.3	39.3	39.3
85°	18.3	26.2	31.4	28.8	26.2
87.5°	10.5	20.9	20.9	18.3	15.7
90°	5.2	10.5	5.2	0.0	0.0
92.5°	26.2	86.4	26.2	18.3	18.3
95°	41.9	343.0	343.0	41.9	41.9
97.5°	60.2	424.2	696.5	877.2	827.5
100°	81.2	529.0	741.1	916.5	979.3
102.5°	104.7	521.1	783.0	950.5	1008.2
105°	128.3	526.3	885.1	989.8	1044.8
107.5°	151.9	526.3	932.2	1016.0	1076.2
110°	175.4	526.3	911.3	1123.4	1133.8



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	199.0	531.6	892.9	1131.2	1196.7
115°	222.6	536.8	887.7	1110.3	1186.2
117.5°	246.1	539.4	885.1	1084.1	1154.8
120°	267.1	542.0	879.8	1073.6	1133.8
122.5°	290.7	547.3	869.4	1060.5	1118.1
125°	309.0	555.1	861.5	1047.4	1105.0
127.5°	329.9	560.4	851.0	1034.3	1089.3
130°	348.3	568.2	840.6	1013.4	1071.0
132.5°	364.0	576.1	830.1	997.7	1047.4
135°	382.3	578.7	814.4	976.7	1023.9
137.5°	398.0	581.3	798.7	958.4	997.7
140°	416.4	578.7	785.6	932.2	974.1
142.5°	432.1	576.1	772.5	906.0	945.3
145°	447.8	573.5	759.4	882.5	913.9
147.5°	460.9	568.2	746.3	856.3	885.1
150°	474.0	560.4	733.2	832.7	858.9
152.5°	484.4	552.5	717.5	806.5	824.9
155°	494.9	544.7	696.5	783.0	798.7
157.5°	502.8	539.4	673.0	756.8	772.5
160°	510.6	536.8	644.2	730.6	743.7
162.5°	518.5	536.8	615.4	696.5	712.3
165°	526.3	536.8	589.2	649.4	667.7
167.5°	529.0	534.2	565.6	604.9	620.6
170°	534.2	534.2	552.5	570.9	576.1
172.5°	536.8	534.2	544.7	552.5	552.5
175°	539.4	534.2	536.8	539.4	536.8
177.5°	539.4	534.2	534.2	534.2	529.0
180°	534.2	534.2	534.2	534.2	534.2

(END OF REPORT)