

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: P253302

Luminaire Tested: **J3-UL-20L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253302  
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-20L830-1D-UNV-STD-W-4  
Description: JAYLUM J3 SUSPENDED LED LUMINAIRE, FROSTED LENS, OPEN TOP.  
Light Source: (224) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

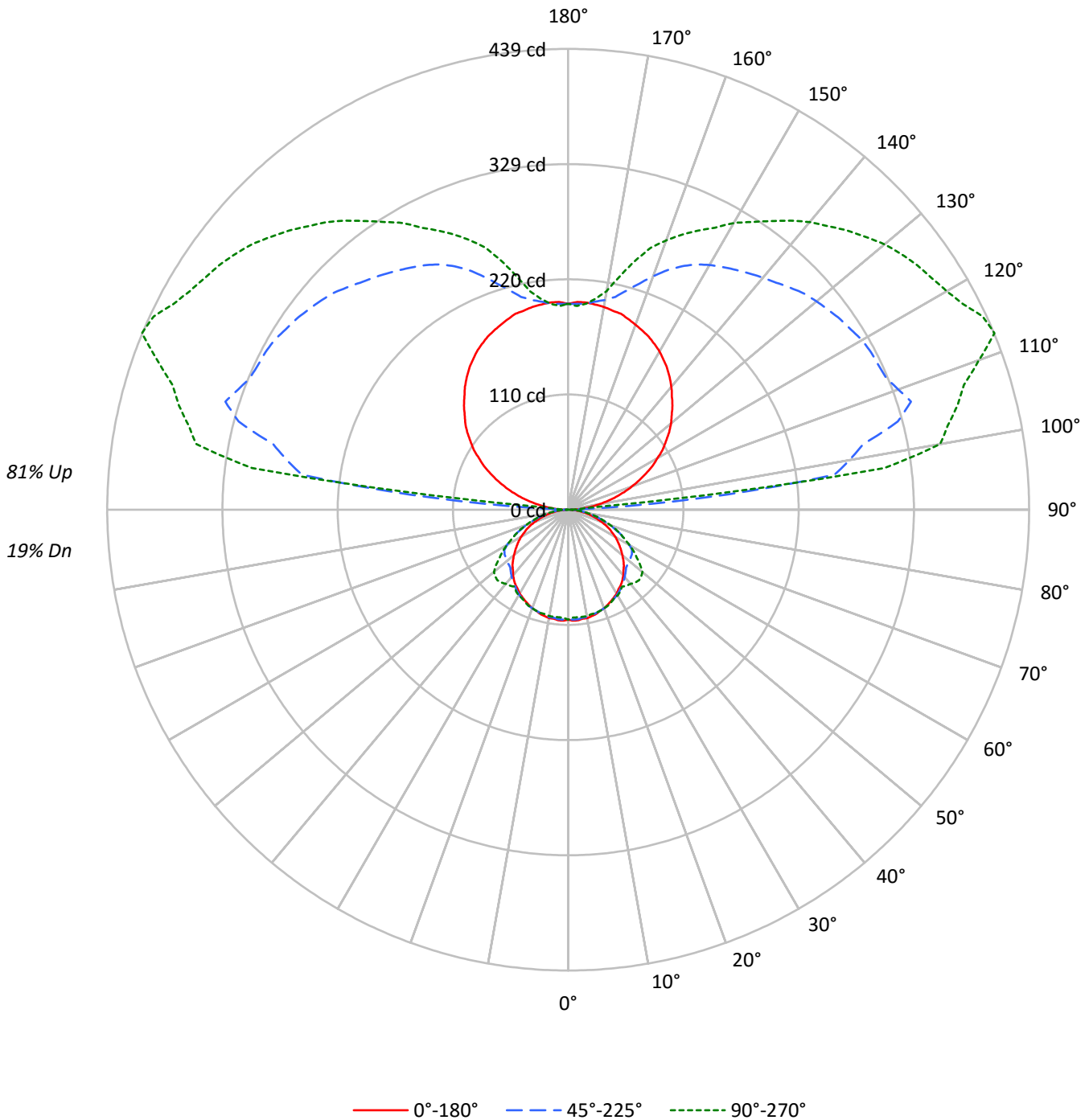
Lumens per Lamp: N/A  
Luminaire Lumens: 1899.7 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.33 / 1.47  
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 12.8  
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°	846	846	846
5°	857	849	834
10°	859	851	844
15°	860	852	852
20°	859	859	859
25°	857	865	865
30°	860	870	878
35°	862	872	881
40°	861	882	973
45°	856	889	1087
50°	845	966	1159
55°	839	1042	1123
60°	838	1087	1087
65°	827	1047	1047
70°	795	998	998
75°	749	930	961
80°	716	893	893
85°	621	1065	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.9	0.5
10°-20°	28.8	1.5
20°-30°	44.6	2.4
30°-40°	55.6	2.9
40°-50°	63.5	3.3
50°-60°	63.4	3.3
60°-70°	50.5	2.7
70°-80°	31.1	1.6
80°-90°	11.1	0.6
90°-100°	118.1	6.2
100°-110°	287.6	15.1
110°-120°	294.1	15.5
120°-130°	261.0	13.7
130°-140°	218.4	11.5
140°-150°	167.1	8.8
150°-160°	113.7	6.0
160°-170°	62.2	3.3
170°-180°	19.0	1.0
0°-30°	83.4	4.4
0°-40°	139.0	7.3
0°-60°	265.8	14.0
0°-90°	358.5	18.9
90°-120°	699.8	36.8
90°-150°	1346.2	70.9
90°-180°	1541.0	81.1
0°-180°	1899.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	105	105	105	105	105	
5°	106	104	105	104	103	10
15°	103	102	102	102	102	29
25°	96	96	97	97	97	44
35°	88	88	88	89	89	55
45°	75	75	78	90	95	58
55°	60	61	74	80	80	53
65°	43	46	55	55	55	42
75°	24	30	30	31	31	25
85°	7	10	12	11	10	8
90°	2	4	2	0	0	2
95°	15	126	126	15	15	16
105°	47	193	325	364	384	50
115°	82	197	326	408	436	81
125°	114	204	316	385	406	102
135°	140	212	299	359	376	108
145°	164	211	279	324	336	103
155°	182	200	256	288	293	84
165°	193	197	216	238	245	54
175°	198	196	197	198	197	19
180°	196	196	196	196	196	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	104.8	104.8	104.8	104.8	104.8
2.5°	105.8	104.8	104.8	103.8	102.9
5°	105.8	103.8	104.8	103.8	102.9
7.5°	104.8	103.8	103.8	103.8	102.9
10°	104.8	102.9	103.8	102.9	102.9
12.5°	103.8	102.9	102.9	102.9	101.9
15°	102.9	101.9	101.9	101.9	101.9
17.5°	101.0	100.0	101.0	101.0	101.0
20°	100.0	99.0	100.0	100.0	100.0
22.5°	98.1	97.1	99.0	99.0	99.0
25°	96.2	96.2	97.1	97.1	97.1
27.5°	94.2	94.2	95.2	96.2	95.2
30°	92.3	91.3	93.3	94.2	94.2
32.5°	89.4	89.4	91.3	91.3	92.3
35°	87.5	87.5	88.5	89.4	89.4
37.5°	84.6	84.6	86.5	87.5	91.3
40°	81.7	81.7	83.7	88.5	92.3
42.5°	77.9	78.8	80.8	88.5	94.2
45°	75.0	75.0	77.9	90.4	95.2
47.5°	71.2	72.1	76.9	90.4	94.2
50°	67.3	68.3	76.9	89.4	92.3
52.5°	63.5	64.4	75.0	85.6	86.5
55°	59.6	60.6	74.0	79.8	79.8
57.5°	55.8	56.7	72.1	74.0	74.0
60°	51.9	52.9	67.3	67.3	67.3
62.5°	47.1	48.1	60.6	60.6	60.6
65°	43.3	46.2	54.8	54.8	54.8
67.5°	38.5	42.3	48.1	49.0	49.0
70°	33.7	39.4	42.3	42.3	42.3
72.5°	28.8	35.6	35.6	36.5	36.5
75°	24.0	29.8	29.8	30.8	30.8
77.5°	19.2	24.0	24.0	25.0	25.0
80°	15.4	18.3	19.2	19.2	19.2
82.5°	11.5	14.4	14.4	14.4	14.4
85°	6.7	9.6	11.5	10.6	9.6
87.5°	3.8	7.7	7.7	6.7	5.8
90°	1.9	3.8	1.9	0.0	0.0
92.5°	9.6	31.7	9.6	6.7	6.7
95°	15.4	126.0	126.0	15.4	15.4
97.5°	22.1	155.8	255.8	322.1	303.8
100°	29.8	194.2	272.1	336.5	359.6
102.5°	38.5	191.3	287.5	349.0	370.2
105°	47.1	193.3	325.0	363.5	383.7
107.5°	55.8	193.3	342.3	373.1	395.2
110°	64.4	193.3	334.6	412.5	416.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	73.1	195.2	327.9	415.4	439.4
115°	81.7	197.1	326.0	407.7	435.6
117.5°	90.4	198.1	325.0	398.1	424.0
120°	98.1	199.0	323.1	394.2	416.3
122.5°	106.7	201.0	319.2	389.4	410.6
125°	113.5	203.8	316.3	384.6	405.8
127.5°	121.2	205.8	312.5	379.8	400.0
130°	127.9	208.7	308.7	372.1	393.3
132.5°	133.7	211.5	304.8	366.3	384.6
135°	140.4	212.5	299.0	358.7	376.0
137.5°	146.2	213.5	293.3	351.9	366.3
140°	152.9	212.5	288.5	342.3	357.7
142.5°	158.7	211.5	283.7	332.7	347.1
145°	164.4	210.6	278.8	324.0	335.6
147.5°	169.2	208.7	274.0	314.4	325.0
150°	174.0	205.8	269.2	305.8	315.4
152.5°	177.9	202.9	263.5	296.2	302.9
155°	181.7	200.0	255.8	287.5	293.3
157.5°	184.6	198.1	247.1	277.9	283.7
160°	187.5	197.1	236.5	268.3	273.1
162.5°	190.4	197.1	226.0	255.8	261.5
165°	193.3	197.1	216.3	238.5	245.2
167.5°	194.2	196.2	207.7	222.1	227.9
170°	196.2	196.2	202.9	209.6	211.5
172.5°	197.1	196.2	200.0	202.9	202.9
175°	198.1	196.2	197.1	198.1	197.1
177.5°	198.1	196.2	196.2	196.2	194.2
180°	196.2	196.2	196.2	196.2	196.2

(END OF REPORT)