

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: P253368

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (3500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1881.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.17 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

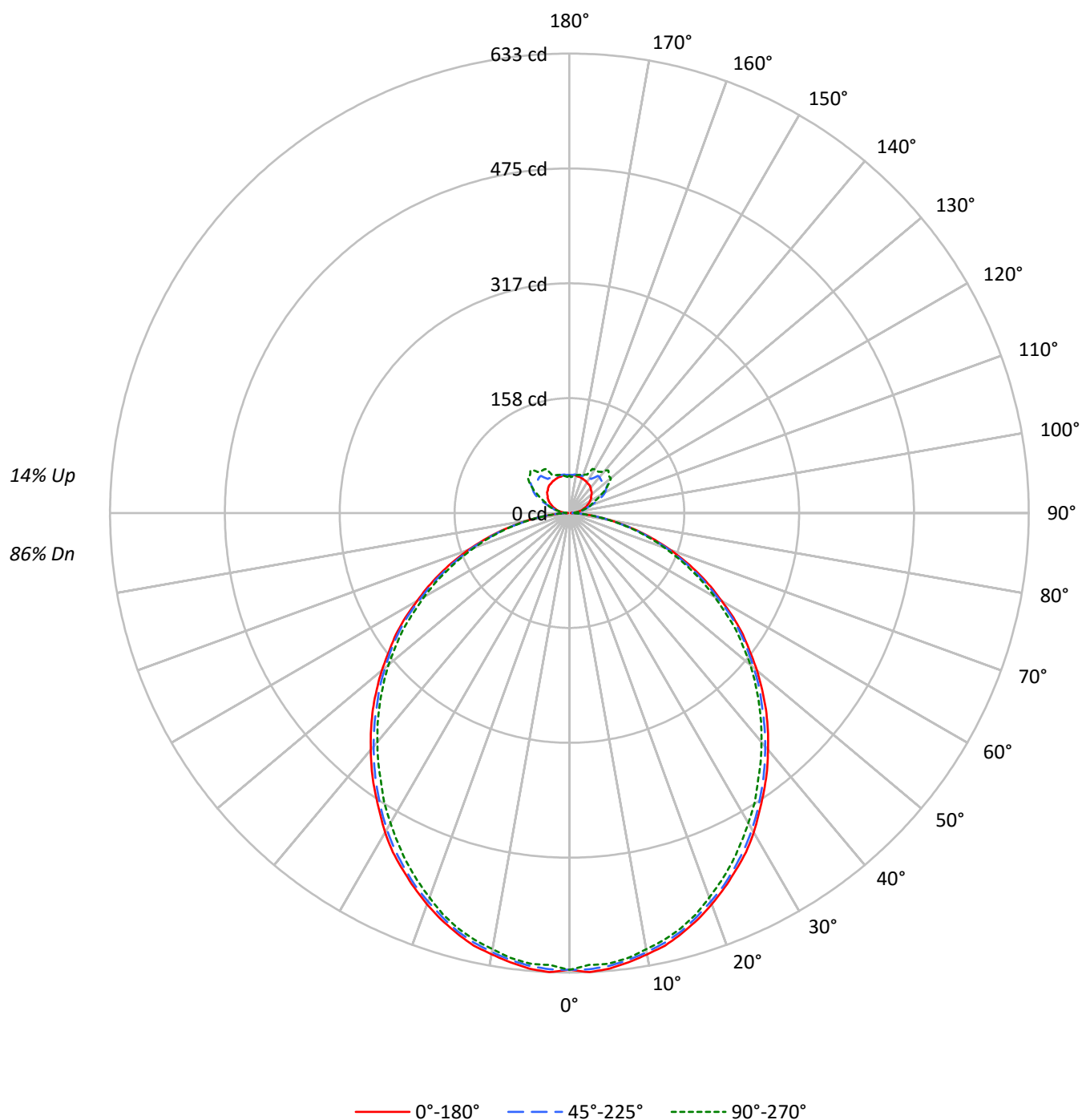
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104		96	96	96		90
1	106	101	97	94	102	98	94	91	91	88	85		85	83	80		79
2	97	89	82	77	93	86	80	75	80	75	71		75	71	67		70
3	88	78	70	64	85	75	68	62	71	65	60		66	61	57		62
4	81	69	61	54	77	67	59	53	63	56	51		59	53	49		55
5	74	62	53	47	71	60	52	46	56	49	44		53	47	42		50
6	69	56	47	41	66	54	46	40	51	44	39		48	42	37		45
7	64	51	42	36	61	49	41	36	46	39	34		44	38	33		41
8	59	46	38	32	57	45	37	32	42	36	31		40	34	30		38
9	55	42	34	29	53	41	34	29	39	32	28		37	31	27		35
10	52	39	31	26	50	38	31	26	36	30	25		34	29	24		33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5079	5079	5079
5°	5106	5074	5049
10°	5059	5035	5002
15°	5009	4984	4951
20°	4927	4893	4842
25°	4834	4799	4728
30°	4735	4690	4597
35°	4605	4557	4459
40°	4486	4423	4340
45°	4373	4282	4214
50°	4237	4162	4087
55°	4106	4049	3938
60°	3909	3844	3733
65°	3734	3639	3526
70°	3489	3397	3279
75°	3157	3094	3001
80°	2673	2631	2585
85°	2019	2112	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.3	3.2
10°-20°	167.4	8.9
20°-30°	246.9	13.1
30°-40°	287.8	15.3
40°-50°	289.4	15.4
50°-60°	254.8	13.5
60°-70°	188.1	10.0
70°-80°	104.2	5.5
80°-90°	27.1	1.4
90°-100°	9.6	0.5
100°-110°	24.9	1.3
110°-120°	40.4	2.1
120°-130°	50.4	2.7
130°-140°	47.4	2.5
140°-150°	37.4	2.0
150°-160°	25.7	1.4
160°-170°	15.2	0.8
170°-180°	5.0	0.3
0°-30°	473.6	25.2
0°-40°	761.4	40.5
0°-60°	1305.6	69.4
0°-90°	1625.1	86.4
90°-120°	74.9	4.0
90°-150°	210.0	11.2
90°-180°	256.0	13.6
0°-180°	1881.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	629	629	629	629	629	
5°	630	623	626	624	623	60
15°	599	593	596	593	592	169
25°	543	538	539	532	531	250
35°	467	463	462	454	452	293
45°	383	379	375	370	369	295
55°	292	289	288	282	280	260
65°	196	194	190	186	185	193
75°	101	100	99	96	96	107
85°	22	23	23	22	22	25
90°	2	4	4	4	4	2
95°	7	8	9	9	9	7
105°	19	26	23	25	23	20
115°	28	45	46	40	39	28
125°	37	51	62	64	64	33
135°	43	48	62	77	76	33
145°	48	50	60	68	70	30
155°	50	52	55	58	58	23
165°	52	52	55	56	55	15
175°	53	53	53	53	51	5
180°	52	52	52	52	52	



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CATALOG NUMBER: J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	629.1	629.1	629.1	629.1	629.1
2.5°	633.0	626.1	629.1	627.1	623.1
5°	630.1	623.1	626.1	624.1	623.1
7.5°	624.1	618.2	621.1	619.1	618.2
10°	617.2	611.2	614.2	611.2	610.2
12.5°	610.2	603.3	606.2	602.3	602.3
15°	599.3	593.3	596.3	593.3	592.4
17.5°	587.4	581.4	583.4	580.4	579.5
20°	573.5	567.5	569.5	565.6	563.6
22.5°	558.6	553.7	555.6	548.7	547.7
25°	542.7	537.8	538.8	531.8	530.8
27.5°	526.9	519.9	521.9	514.0	512.0
30°	508.0	502.1	503.1	495.1	493.1
32.5°	487.2	483.2	483.2	475.3	474.3
35°	467.3	463.4	462.4	454.4	452.5
37.5°	447.5	442.5	441.5	432.6	432.6
40°	425.7	421.7	419.7	412.8	411.8
42.5°	404.8	399.9	397.9	390.9	390.9
45°	383.0	379.0	375.1	370.1	369.1
47.5°	360.2	356.2	354.2	348.3	347.3
50°	337.4	334.4	331.4	326.4	325.4
52.5°	313.5	311.6	309.6	304.6	301.6
55°	291.7	288.7	287.7	281.8	279.8
57.5°	267.9	264.9	263.9	257.0	254.0
60°	242.1	239.1	238.1	232.2	231.2
62.5°	219.3	216.3	214.3	210.4	208.4
65°	195.5	193.5	190.5	186.5	184.6
67.5°	171.7	169.7	166.7	163.7	161.7
70°	147.8	145.9	143.9	139.9	138.9
72.5°	124.0	122.0	120.1	118.1	118.1
75°	101.2	100.2	99.2	96.2	96.2
77.5°	78.4	77.4	76.4	75.4	75.4
80°	57.5	57.5	56.6	55.6	55.6
82.5°	38.7	38.7	38.7	37.7	37.7
85°	21.8	22.8	22.8	21.8	21.8
87.5°	8.9	8.9	8.9	8.9	8.9
90°	2.0	4.0	4.0	4.0	4.0
92.5°	4.0	5.0	6.0	6.9	6.0
95°	6.9	7.9	8.9	8.9	8.9
97.5°	10.9	11.9	11.9	11.9	11.9
100°	13.9	15.9	14.9	15.9	14.9
102.5°	16.9	20.8	20.8	18.9	18.9
105°	18.9	25.8	22.8	24.8	22.8
107.5°	20.8	31.8	26.8	27.8	28.8
110°	23.8	35.7	32.7	29.8	30.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.8	43.7	38.7	34.7	33.7
115°	27.8	44.6	45.6	39.7	38.7
117.5°	30.8	44.6	51.6	46.6	44.6
120°	32.7	47.6	56.6	52.6	50.6
122.5°	34.7	49.6	59.5	59.5	57.5
125°	36.7	50.6	62.5	64.5	63.5
127.5°	37.7	47.6	67.5	70.4	69.5
130°	39.7	45.6	66.5	71.4	74.4
132.5°	41.7	46.6	64.5	72.4	74.4
135°	42.7	47.6	62.5	77.4	76.4
137.5°	43.7	48.6	63.5	74.4	79.4
140°	45.6	48.6	64.5	70.4	76.4
142.5°	46.6	49.6	64.5	67.5	71.4
145°	47.6	49.6	59.5	68.5	69.5
147.5°	47.6	50.6	55.6	69.5	69.5
150°	48.6	50.6	55.6	69.5	69.5
152.5°	49.6	51.6	54.6	60.5	68.5
155°	49.6	51.6	54.6	58.5	58.5
157.5°	50.6	51.6	54.6	57.5	57.5
160°	50.6	51.6	54.6	56.6	55.6
162.5°	51.6	51.6	53.6	55.6	54.6
165°	51.6	51.6	54.6	55.6	54.6
167.5°	51.6	52.6	53.6	54.6	53.6
170°	52.6	52.6	53.6	53.6	52.6
172.5°	52.6	52.6	53.6	52.6	51.6
175°	52.6	52.6	52.6	52.6	50.6
177.5°	52.6	51.6	52.6	51.6	49.6
180°	51.6	51.6	51.6	51.6	51.6

(END OF REPORT)