

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: P253388

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253388
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-20L93050-1D-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, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1598.4 lumens
Efficiency: N/A
Efficacy: 92.4 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

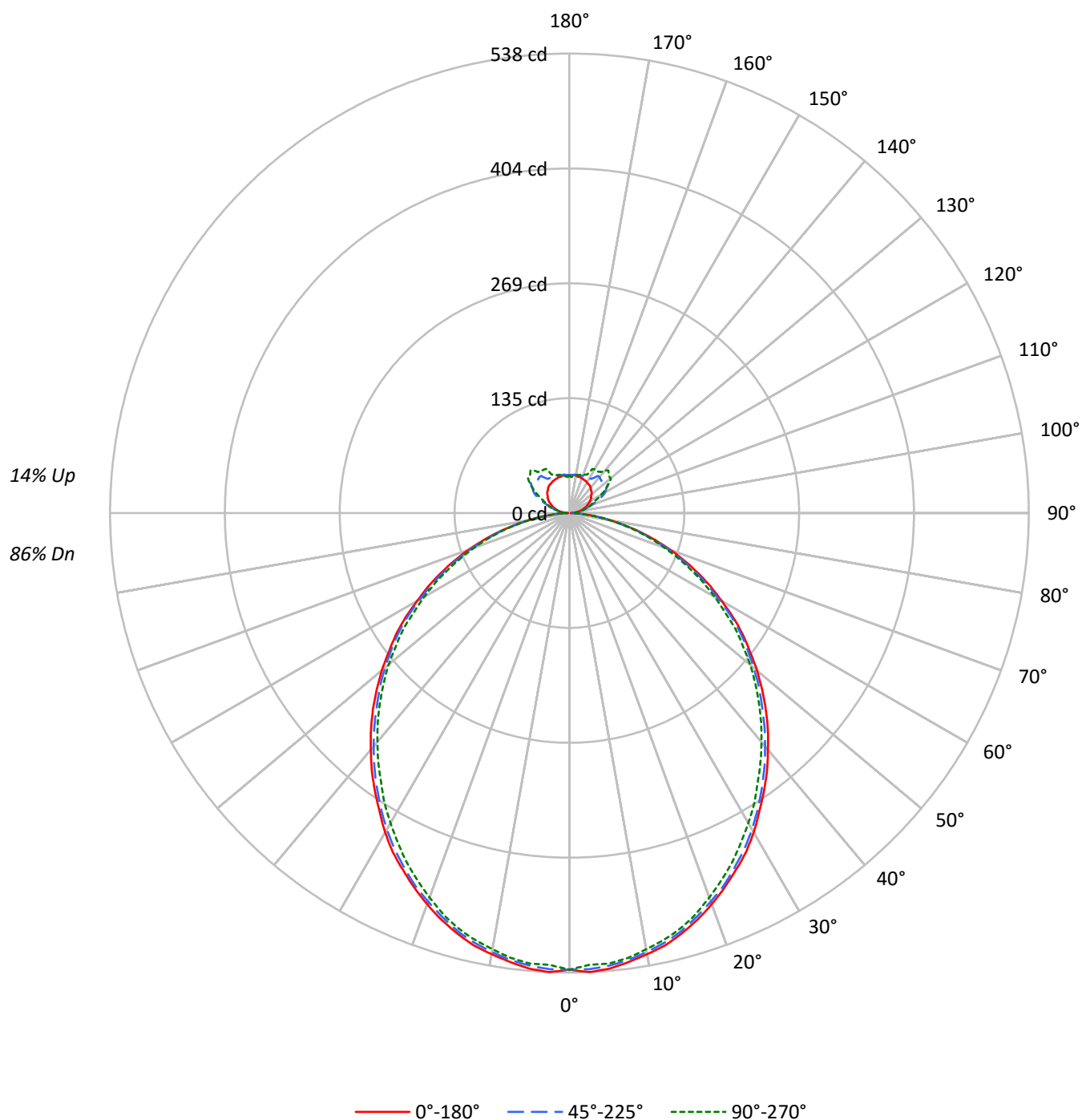
Input Watts (W): 17.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253388

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253388

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (3500K)

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°	4315	4315	4315
5°	4339	4311	4291
10°	4299	4278	4250
15°	4257	4235	4206
20°	4186	4158	4114
25°	4108	4078	4018
30°	4024	3985	3906
35°	3914	3872	3789
40°	3812	3758	3687
45°	3715	3639	3580
50°	3601	3537	3473
55°	3489	3441	3347
60°	3321	3268	3171
65°	3173	3093	2995
70°	2965	2887	2785
75°	2682	2629	2551
80°	2273	2236	2194
85°	1714	1797	1714



TEST NUMBER: P253388

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.4	3.2
10°-20°	142.3	8.9
20°-30°	209.8	13.1
30°-40°	244.6	15.3
40°-50°	245.9	15.4
50°-60°	216.5	13.5
60°-70°	159.8	10.0
70°-80°	88.6	5.5
80°-90°	23.1	1.4
90°-100°	8.2	0.5
100°-110°	21.1	1.3
110°-120°	34.3	2.1
120°-130°	42.9	2.7
130°-140°	40.3	2.5
140°-150°	31.7	2.0
150°-160°	21.9	1.4
160°-170°	12.9	0.8
170°-180°	4.3	0.3
0°-30°	402.5	25.2
0°-40°	647.0	40.5
0°-60°	1109.4	69.4
0°-90°	1380.9	86.4
90°-120°	63.6	4.0
90°-150°	178.5	11.2
90°-180°	218.0	13.6
0°-180°	1598.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	534	534	534	534	534	
5°	535	530	532	530	530	51
15°	509	504	507	504	503	144
25°	461	457	458	452	451	213
35°	397	394	393	386	384	249
45°	325	322	319	314	314	251
55°	248	245	244	239	238	221
65°	166	164	162	158	157	164
75°	86	85	84	82	82	91
85°	18	19	19	18	18	22
90°	2	3	3	3	3	2
95°	6	7	8	8	8	6
105°	16	22	19	21	19	17
115°	24	38	39	34	33	24
125°	31	43	53	55	54	28
135°	36	40	53	66	65	28
145°	40	42	51	58	59	25
155°	42	44	46	50	50	20
165°	44	44	46	47	46	12
175°	45	45	45	45	43	4
180°	44	44	44	44	44	



TEST NUMBER: P253388

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	534.5	534.5	534.5	534.5	534.5
2.5°	537.9	532.0	534.5	532.9	529.5
5°	535.4	529.5	532.0	530.3	529.5
7.5°	530.3	525.3	527.8	526.1	525.3
10°	524.4	519.4	521.9	519.4	518.5
12.5°	518.5	512.6	515.2	511.8	511.8
15°	509.3	504.2	506.7	504.2	503.3
17.5°	499.1	494.1	495.8	493.2	492.4
20°	487.3	482.3	484.0	480.6	478.9
22.5°	474.7	470.5	472.2	466.3	465.4
25°	461.2	457.0	457.8	451.9	451.1
27.5°	447.7	441.8	443.5	436.7	435.1
30°	431.7	426.6	427.5	420.7	419.0
32.5°	414.0	410.6	410.6	403.9	403.0
35°	397.1	393.7	392.9	386.2	384.5
37.5°	380.3	376.0	375.2	367.6	367.6
40°	361.7	358.3	356.6	350.7	349.9
42.5°	344.0	339.8	338.1	332.2	332.2
45°	325.4	322.1	318.7	314.5	313.6
47.5°	306.1	302.7	301.0	295.9	295.1
50°	286.7	284.1	281.6	277.4	276.5
52.5°	266.4	264.7	263.1	258.8	256.3
55°	247.9	245.4	244.5	239.4	237.8
57.5°	227.6	225.1	224.3	218.4	215.8
60°	205.7	203.2	202.4	197.3	196.4
62.5°	186.3	183.8	182.1	178.7	177.1
65°	166.1	164.4	161.9	158.5	156.8
67.5°	145.9	144.2	141.6	139.1	137.4
70°	125.6	123.9	122.3	118.9	118.0
72.5°	105.4	103.7	102.0	100.3	100.3
75°	86.0	85.2	84.3	81.8	81.8
77.5°	66.6	65.8	64.9	64.1	64.1
80°	48.9	48.9	48.1	47.2	47.2
82.5°	32.9	32.9	32.9	32.0	32.0
85°	18.5	19.4	19.4	18.5	18.5
87.5°	7.6	7.6	7.6	7.6	7.6
90°	1.7	3.4	3.4	3.4	3.4
92.5°	3.4	4.2	5.1	5.9	5.1
95°	5.9	6.7	7.6	7.6	7.6
97.5°	9.3	10.1	10.1	10.1	10.1
100°	11.8	13.5	12.6	13.5	12.6
102.5°	14.3	17.7	17.7	16.0	16.0
105°	16.0	21.9	19.4	21.1	19.4
107.5°	17.7	27.0	22.8	23.6	24.5
110°	20.2	30.4	27.8	25.3	26.1



TEST NUMBER: P253388

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.9	37.1	32.9	29.5	28.7
115°	23.6	37.9	38.8	33.7	32.9
117.5°	26.1	37.9	43.8	39.6	37.9
120°	27.8	40.5	48.1	44.7	43.0
122.5°	29.5	42.2	50.6	50.6	48.9
125°	31.2	43.0	53.1	54.8	54.0
127.5°	32.0	40.5	57.3	59.9	59.0
130°	33.7	38.8	56.5	60.7	63.2
132.5°	35.4	39.6	54.8	61.5	63.2
135°	36.3	40.5	53.1	65.8	64.9
137.5°	37.1	41.3	54.0	63.2	67.5
140°	38.8	41.3	54.8	59.9	64.9
142.5°	39.6	42.2	54.8	57.3	60.7
145°	40.5	42.2	50.6	58.2	59.0
147.5°	40.5	43.0	47.2	59.0	59.0
150°	41.3	43.0	47.2	59.0	59.0
152.5°	42.2	43.8	46.4	51.4	58.2
155°	42.2	43.8	46.4	49.7	49.7
157.5°	43.0	43.8	46.4	48.9	48.9
160°	43.0	43.8	46.4	48.1	47.2
162.5°	43.8	43.8	45.5	47.2	46.4
165°	43.8	43.8	46.4	47.2	46.4
167.5°	43.8	44.7	45.5	46.4	45.5
170°	44.7	44.7	45.5	45.5	44.7
172.5°	44.7	44.7	45.5	44.7	43.8
175°	44.7	44.7	44.7	44.7	43.0
177.5°	44.7	43.8	44.7	43.8	42.2
180°	43.8	43.8	43.8	43.8	43.8

(END OF REPORT)