

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: P253369

Luminaire Tested: **J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253369
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-30L83050-1D-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: 2738.5 lumens
Efficiency: N/A
Efficacy: 106.1 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

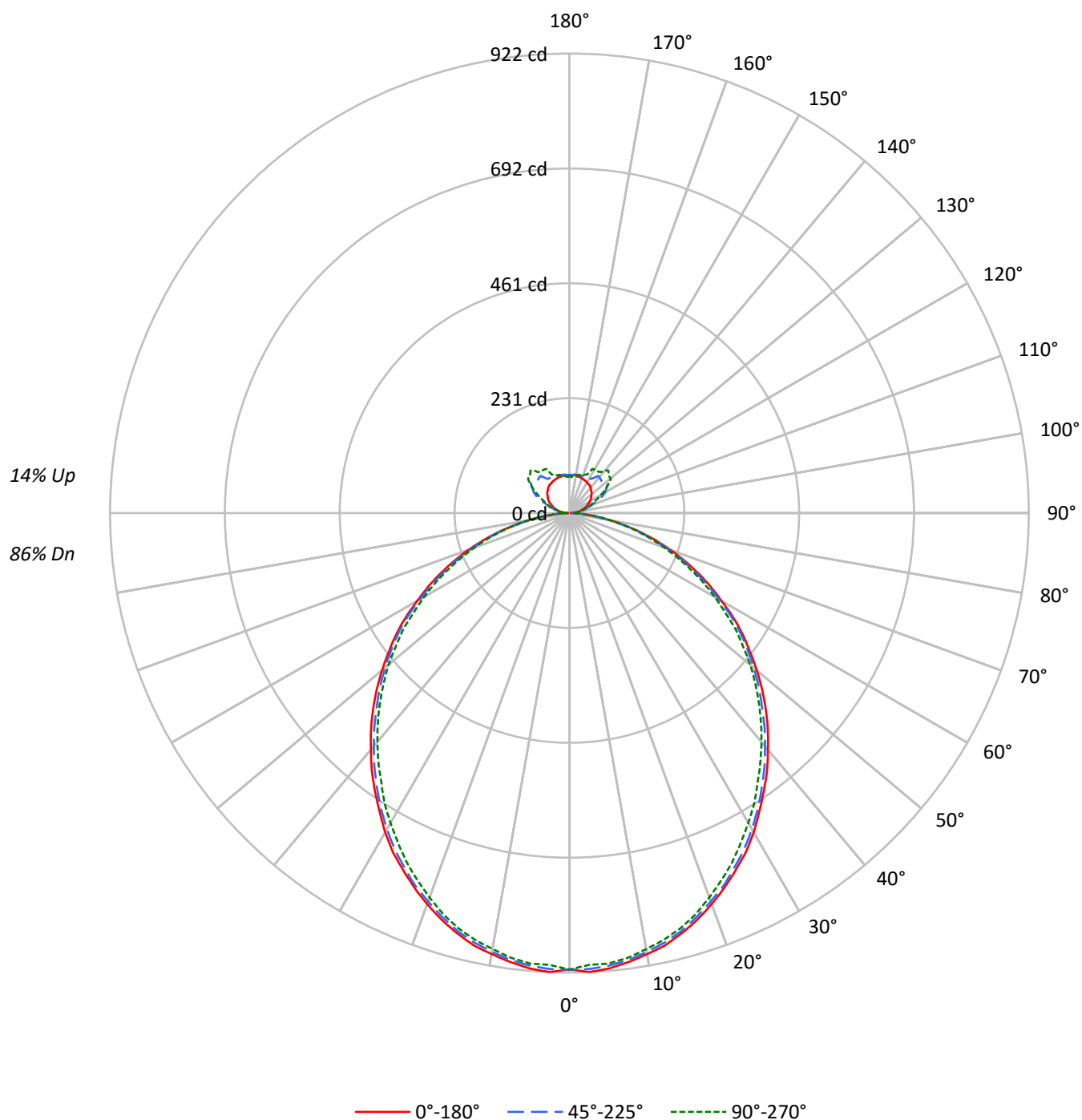
Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253369

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253369

CATALOG NUMBER: J2-WL-30L83050-1D-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	30	10
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7393	7393	7393
5°	7434	7387	7352
10°	7365	7330	7283
15°	7292	7256	7208
20°	7173	7124	7049
25°	7039	6987	6884
30°	6894	6827	6692
35°	6706	6634	6492
40°	6531	6439	6318
45°	6366	6234	6135
50°	6168	6060	5951
55°	5978	5896	5734
60°	5691	5598	5435
65°	5436	5297	5133
70°	5080	4945	4773
75°	4595	4507	4370
80°	3896	3826	3761
85°	2946	3075	2946



TEST NUMBER: P253369

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	3.2
10°-20°	243.7	8.9
20°-30°	359.5	13.1
30°-40°	419.0	15.3
40°-50°	421.3	15.4
50°-60°	371.0	13.5
60°-70°	273.9	10.0
70°-80°	151.7	5.5
80°-90°	39.5	1.4
90°-100°	14.0	0.5
100°-110°	36.2	1.3
110°-120°	58.8	2.1
120°-130°	73.4	2.7
130°-140°	69.0	2.5
140°-150°	54.4	2.0
150°-160°	37.5	1.4
160°-170°	22.1	0.8
170°-180°	7.3	0.3
0°-30°	689.5	25.2
0°-40°	1108.5	40.5
0°-60°	1900.8	69.4
0°-90°	2365.9	86.4
90°-120°	109.0	4.0
90°-150°	305.8	11.2
90°-180°	373.0	13.6
0°-180°	2738.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	917	907	912	909	907	87
15°	872	864	868	864	862	246
25°	790	783	784	774	773	364
35°	680	675	673	662	659	426
45°	558	552	546	539	537	430
55°	425	420	419	410	407	379
65°	285	282	277	272	269	281
75°	147	146	144	140	140	156
85°	32	33	33	32	32	37
90°	3	6	6	6	6	3
95°	10	12	13	13	13	11
105°	27	38	33	36	33	29
115°	40	65	66	58	56	41
125°	53	74	91	94	92	47
135°	62	69	91	113	111	48
145°	69	72	87	100	101	43
155°	72	75	79	85	85	34
165°	75	75	79	81	79	21
175°	77	77	77	77	74	7
180°	75	75	75	75	75	



TEST NUMBER: P253369

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	915.8	915.8	915.8	915.8	915.8
2.5°	921.6	911.5	915.8	912.9	907.2
5°	917.3	907.2	911.5	908.6	907.2
7.5°	908.6	899.9	904.3	901.4	899.9
10°	898.5	889.8	894.2	889.8	888.4
12.5°	888.4	878.3	882.6	876.8	876.8
15°	872.5	863.8	868.2	863.8	862.4
17.5°	855.2	846.5	849.4	845.0	843.6
20°	834.9	826.3	829.2	823.4	820.5
22.5°	813.3	806.0	808.9	798.8	797.4
25°	790.2	782.9	784.4	774.3	772.8
27.5°	767.0	756.9	759.8	748.3	745.4
30°	739.6	730.9	732.4	720.8	717.9
32.5°	709.3	703.5	703.5	691.9	690.5
35°	680.4	674.6	673.1	661.6	658.7
37.5°	651.5	644.3	642.8	629.8	629.8
40°	619.7	613.9	611.0	600.9	599.5
42.5°	589.4	582.1	579.3	569.1	569.1
45°	557.6	551.8	546.0	538.8	537.4
47.5°	524.4	518.6	515.7	507.0	505.6
50°	491.1	486.8	482.5	475.2	473.8
52.5°	456.5	453.6	450.7	443.5	439.1
55°	424.7	420.4	418.9	410.2	407.4
57.5°	390.0	385.7	384.2	374.1	369.8
60°	352.5	348.1	346.7	338.0	336.6
62.5°	319.2	314.9	312.0	306.2	303.4
65°	284.6	281.7	277.3	271.6	268.7
67.5°	249.9	247.0	242.7	238.3	235.5
70°	215.2	212.3	209.5	203.7	202.2
72.5°	180.6	177.7	174.8	171.9	171.9
75°	147.3	145.9	144.5	140.1	140.1
77.5°	114.1	112.7	111.2	109.8	109.8
80°	83.8	83.8	82.3	80.9	80.9
82.5°	56.3	56.3	56.3	54.9	54.9
85°	31.8	33.2	33.2	31.8	31.8
87.5°	13.0	13.0	13.0	13.0	13.0
90°	2.9	5.8	5.8	5.8	5.8
92.5°	5.8	7.2	8.7	10.1	8.7
95°	10.1	11.6	13.0	13.0	13.0
97.5°	15.9	17.3	17.3	17.3	17.3
100°	20.2	23.1	21.7	23.1	21.7
102.5°	24.6	30.3	30.3	27.4	27.4
105°	27.4	37.6	33.2	36.1	33.2
107.5°	30.3	46.2	39.0	40.4	41.9
110°	34.7	52.0	47.7	43.3	44.8



TEST NUMBER: P253369

CATALOG NUMBER: J2-WL-30L83050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.6	63.6	56.3	50.6	49.1
115°	40.4	65.0	66.4	57.8	56.3
117.5°	44.8	65.0	75.1	67.9	65.0
120°	47.7	69.3	82.3	76.6	73.7
122.5°	50.6	72.2	86.7	86.7	83.8
125°	53.4	73.7	91.0	93.9	92.4
127.5°	54.9	69.3	98.2	102.6	101.1
130°	57.8	66.4	96.8	104.0	108.3
132.5°	60.7	67.9	93.9	105.5	108.3
135°	62.1	69.3	91.0	112.7	111.2
137.5°	63.6	70.8	92.4	108.3	115.6
140°	66.4	70.8	93.9	102.6	111.2
142.5°	67.9	72.2	93.9	98.2	104.0
145°	69.3	72.2	86.7	99.7	101.1
147.5°	69.3	73.7	80.9	101.1	101.1
150°	70.8	73.7	80.9	101.1	101.1
152.5°	72.2	75.1	79.4	88.1	99.7
155°	72.2	75.1	79.4	85.2	85.2
157.5°	73.7	75.1	79.4	83.8	83.8
160°	73.7	75.1	79.4	82.3	80.9
162.5°	75.1	75.1	78.0	80.9	79.4
165°	75.1	75.1	79.4	80.9	79.4
167.5°	75.1	76.6	78.0	79.4	78.0
170°	76.6	76.6	78.0	78.0	76.6
172.5°	76.6	76.6	78.0	76.6	75.1
175°	76.6	76.6	76.6	76.6	73.7
177.5°	76.6	75.1	76.6	75.1	72.2
180°	75.1	75.1	75.1	75.1	75.1

(END OF REPORT)