

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: P253400

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253400
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1756.6 lumens
Efficiency: N/A
Efficacy: 99.2 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

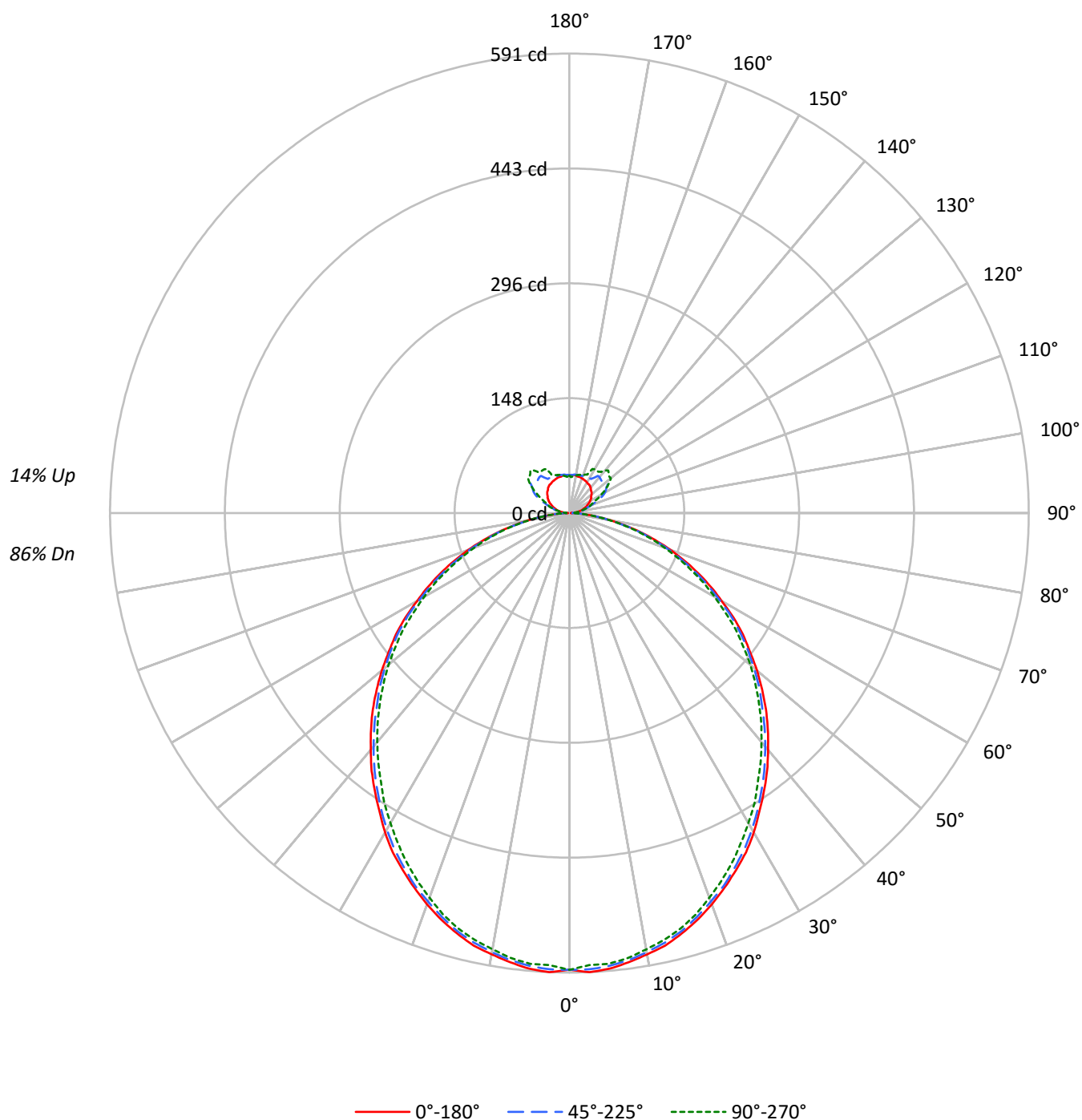
Input Watts (W): 17.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4742	4742	4742
5°	4768	4738	4716
10°	4724	4701	4671
15°	4677	4654	4623
20°	4601	4569	4521
25°	4514	4481	4415
30°	4422	4379	4293
35°	4301	4255	4164
40°	4189	4130	4052
45°	4083	3998	3935
50°	3956	3887	3817
55°	3834	3782	3678
60°	3651	3591	3486
65°	3486	3398	3291
70°	3260	3172	3061
75°	2948	2891	2804
80°	2497	2455	2413
85°	1890	1973	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	3.2
10°-20°	156.3	8.9
20°-30°	230.6	13.1
30°-40°	268.8	15.3
40°-50°	270.2	15.4
50°-60°	238.0	13.5
60°-70°	175.7	10.0
70°-80°	97.3	5.5
80°-90°	25.3	1.4
90°-100°	9.0	0.5
100°-110°	23.2	1.3
110°-120°	37.7	2.1
120°-130°	47.1	2.7
130°-140°	44.2	2.5
140°-150°	34.9	2.0
150°-160°	24.0	1.4
160°-170°	14.2	0.8
170°-180°	4.7	0.3
0°-30°	442.3	25.2
0°-40°	711.0	40.5
0°-60°	1219.2	69.4
0°-90°	1517.5	86.4
90°-120°	69.9	4.0
90°-150°	196.2	11.2
90°-180°	239.0	13.6
0°-180°	1756.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	588	582	585	583	582	56
15°	560	554	557	554	553	158
25°	507	502	503	497	496	234
35°	436	433	432	424	422	273
45°	358	354	350	346	345	276
55°	272	270	269	263	261	243
65°	182	181	178	174	172	181
75°	94	94	93	90	90	100
85°	20	21	21	20	20	24
90°	2	4	4	4	4	2
95°	6	7	8	8	8	7
105°	18	24	21	23	21	19
115°	26	42	43	37	36	26
125°	34	47	58	60	59	30
135°	40	44	58	72	71	31
145°	44	46	56	64	65	28
155°	46	48	51	55	55	22
165°	48	48	51	52	51	14
175°	49	49	49	49	47	5
180°	48	48	48	48	48	



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CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.4	587.4	587.4	587.4	587.4
2.5°	591.1	584.7	587.4	585.6	581.9
5°	588.4	581.9	584.7	582.8	581.9
7.5°	582.8	577.2	580.0	578.2	577.2
10°	576.3	570.8	573.5	570.8	569.8
12.5°	569.8	563.3	566.1	562.4	562.4
15°	559.6	554.1	556.9	554.1	553.2
17.5°	548.5	543.0	544.8	542.0	541.1
20°	535.5	530.0	531.8	528.1	526.3
22.5°	521.6	517.0	518.9	512.4	511.5
25°	506.8	502.2	503.1	496.6	495.7
27.5°	492.0	485.5	487.4	480.0	478.1
30°	474.4	468.8	469.8	462.3	460.5
32.5°	454.9	451.2	451.2	443.8	442.9
35°	436.4	432.7	431.8	424.4	422.5
37.5°	417.9	413.2	412.3	404.0	404.0
40°	397.5	393.8	391.9	385.4	384.5
42.5°	378.0	373.4	371.5	365.1	365.1
45°	357.6	353.9	350.2	345.6	344.7
47.5°	336.3	332.6	330.8	325.2	324.3
50°	315.0	312.2	309.5	304.8	303.9
52.5°	292.8	290.9	289.1	284.5	281.7
55°	272.4	269.6	268.7	263.1	261.3
57.5°	250.2	247.4	246.5	240.0	237.2
60°	226.1	223.3	222.4	216.8	215.9
62.5°	204.8	202.0	200.1	196.4	194.6
65°	182.5	180.7	177.9	174.2	172.3
67.5°	160.3	158.4	155.7	152.9	151.0
70°	138.1	136.2	134.4	130.6	129.7
72.5°	115.8	114.0	112.1	110.3	110.3
75°	94.5	93.6	92.7	89.9	89.9
77.5°	73.2	72.3	71.3	70.4	70.4
80°	53.7	53.7	52.8	51.9	51.9
82.5°	36.1	36.1	36.1	35.2	35.2
85°	20.4	21.3	21.3	20.4	20.4
87.5°	8.3	8.3	8.3	8.3	8.3
90°	1.9	3.7	3.7	3.7	3.7
92.5°	3.7	4.6	5.6	6.5	5.6
95°	6.5	7.4	8.3	8.3	8.3
97.5°	10.2	11.1	11.1	11.1	11.1
100°	13.0	14.8	13.9	14.8	13.9
102.5°	15.8	19.5	19.5	17.6	17.6
105°	17.6	24.1	21.3	23.2	21.3
107.5°	19.5	29.6	25.0	25.9	26.9
110°	22.2	33.4	30.6	27.8	28.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.1	40.8	36.1	32.4	31.5
115°	25.9	41.7	42.6	37.1	36.1
117.5°	28.7	41.7	48.2	43.5	41.7
120°	30.6	44.5	52.8	49.1	47.3
122.5°	32.4	46.3	55.6	55.6	53.7
125°	34.3	47.3	58.4	60.2	59.3
127.5°	35.2	44.5	63.0	65.8	64.9
130°	37.1	42.6	62.1	66.7	69.5
132.5°	38.9	43.5	60.2	67.6	69.5
135°	39.8	44.5	58.4	72.3	71.3
137.5°	40.8	45.4	59.3	69.5	74.1
140°	42.6	45.4	60.2	65.8	71.3
142.5°	43.5	46.3	60.2	63.0	66.7
145°	44.5	46.3	55.6	63.9	64.9
147.5°	44.5	47.3	51.9	64.9	64.9
150°	45.4	47.3	51.9	64.9	64.9
152.5°	46.3	48.2	51.0	56.5	63.9
155°	46.3	48.2	51.0	54.7	54.7
157.5°	47.3	48.2	51.0	53.7	53.7
160°	47.3	48.2	51.0	52.8	51.9
162.5°	48.2	48.2	50.0	51.9	51.0
165°	48.2	48.2	51.0	51.9	51.0
167.5°	48.2	49.1	50.0	51.0	50.0
170°	49.1	49.1	50.0	50.0	49.1
172.5°	49.1	49.1	50.0	49.1	48.2
175°	49.1	49.1	49.1	49.1	47.3
177.5°	49.1	48.2	49.1	48.2	46.3
180°	48.2	48.2	48.2	48.2	48.2

(END OF REPORT)