

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: P253396

Luminaire Tested: **J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253396
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1756.9 lumens
Efficiency: N/A
Efficacy: 99.3 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

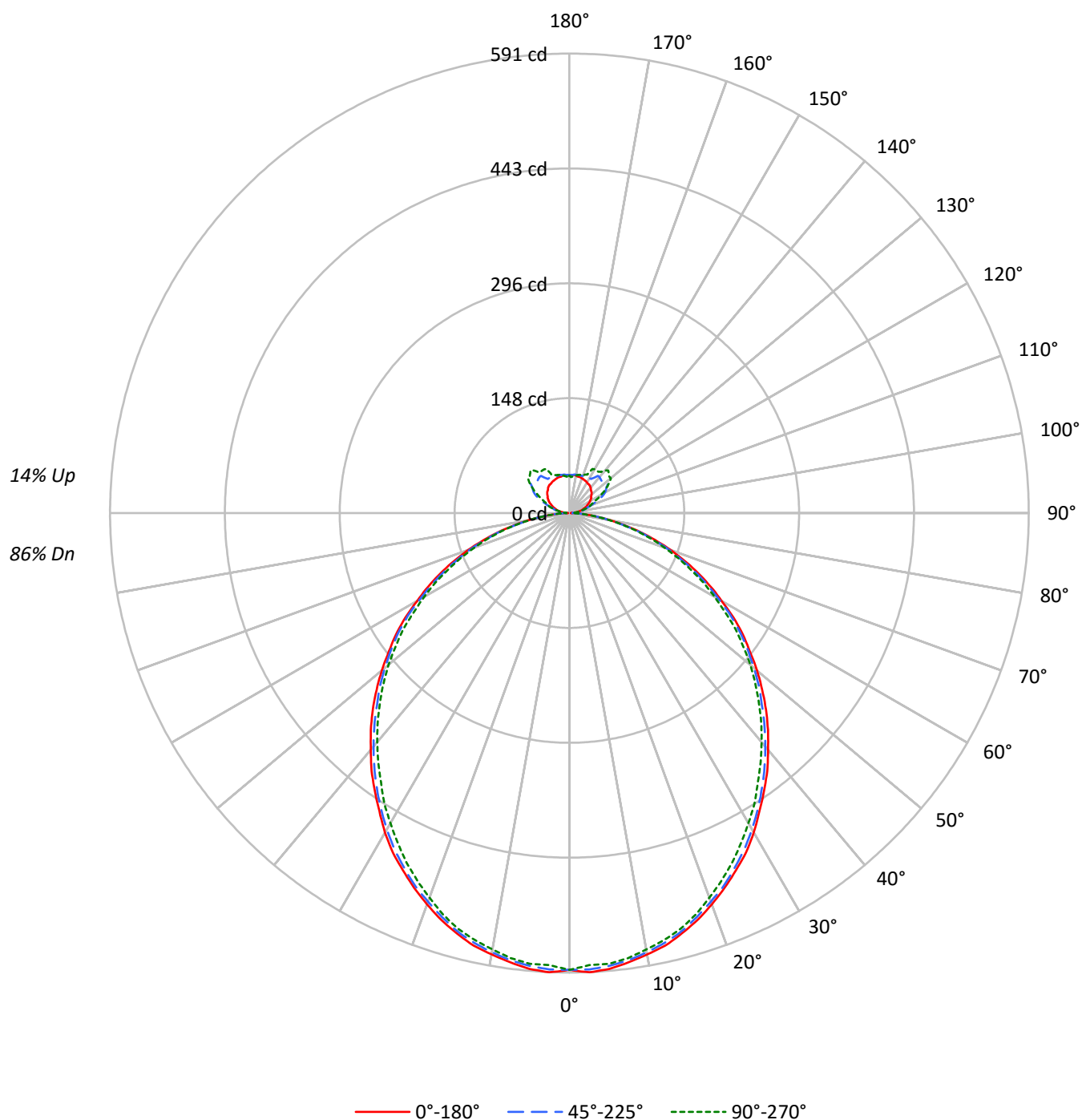
Input Watts (W): 17.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	86							
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73							
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61							
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54	52							
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44							
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38							
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34							
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32	30							
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29	27							
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24							
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24	22							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4743	4743	4743
5°	4769	4739	4716
10°	4725	4702	4672
15°	4678	4655	4624
20°	4601	4570	4522
25°	4515	4482	4416
30°	4423	4379	4294
35°	4302	4256	4165
40°	4190	4131	4053
45°	4084	3999	3935
50°	3957	3887	3818
55°	3835	3782	3678
60°	3651	3591	3486
65°	3488	3398	3293
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°	156.4	8.9
20°-30°	230.6	13.1
30°-40°	268.8	15.3
40°-50°	270.3	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°	44.3	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°	711.2	40.5
0°-60°	1219.4	69.4
0°-90°	1517.8	86.4
90°-120°	69.9	4.0
90°-150°	196.2	11.2
90°-180°	239.0	13.6
0°-180°	1756.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	588	588	588	588	588	
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	423	273
45°	358	354	350	346	345	276
55°	272	270	269	263	261	243
65°	183	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	



TEST NUMBER: P253396

CATALOG NUMBER: J2-WL-20L93050-1D-UNV-W2A-DLED-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	587.5	587.5	587.5	587.5	587.5
2.5°	591.2	584.8	587.5	585.7	582.0
5°	588.5	582.0	584.8	582.9	582.0
7.5°	582.9	577.3	580.1	578.3	577.3
10°	576.4	570.9	573.6	570.9	569.9
12.5°	569.9	563.4	566.2	562.5	562.5
15°	559.7	554.2	557.0	554.2	553.3
17.5°	548.6	543.1	544.9	542.1	541.2
20°	535.6	530.1	531.9	528.2	526.4
22.5°	521.7	517.1	519.0	512.5	511.5
25°	506.9	502.3	503.2	496.7	495.8
27.5°	492.1	485.6	487.5	480.0	478.2
30°	474.5	468.9	469.8	462.4	460.6
32.5°	455.0	451.3	451.3	443.9	443.0
35°	436.5	432.8	431.9	424.4	422.6
37.5°	418.0	413.3	412.4	404.1	404.1
40°	397.6	393.9	392.0	385.5	384.6
42.5°	378.1	373.5	371.6	365.1	365.1
45°	357.7	354.0	350.3	345.7	344.7
47.5°	336.4	332.7	330.8	325.3	324.4
50°	315.1	312.3	309.5	304.9	304.0
52.5°	292.8	291.0	289.1	284.5	281.7
55°	272.5	269.7	268.7	263.2	261.3
57.5°	250.2	247.4	246.5	240.0	237.2
60°	226.1	223.3	222.4	216.9	215.9
62.5°	204.8	202.0	200.2	196.5	194.6
65°	182.6	180.7	177.9	174.2	172.4
67.5°	160.3	158.5	155.7	152.9	151.1
70°	138.1	136.2	134.4	130.7	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	71.4	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	29.7	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	43.6	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	43.6	60.2	67.7	69.5
135°	39.8	44.5	58.4	72.3	71.4
137.5°	40.8	45.4	59.3	69.5	74.1
140°	42.6	45.4	60.2	65.8	71.4
142.5°	43.6	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)