

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: P253364

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253364
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 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1778.6 lumens
Efficiency: N/A
Efficacy: 104.6 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

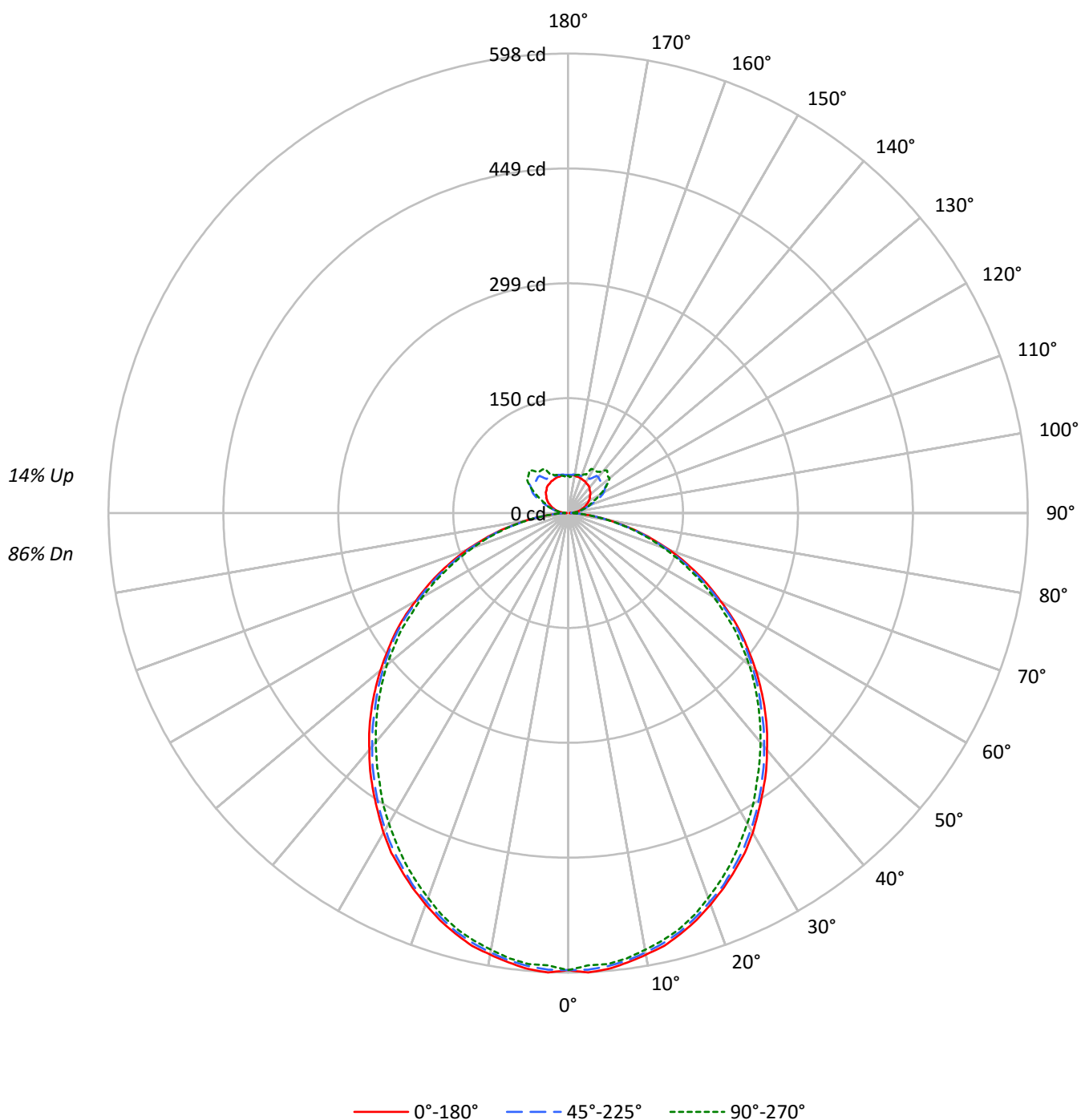
Input Watts (W): 17
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4802	4802	4802
5°	4827	4797	4775
10°	4783	4760	4730
15°	4735	4712	4681
20°	4658	4626	4578
25°	4571	4537	4471
30°	4477	4433	4347
35°	4355	4309	4216
40°	4242	4182	4103
45°	4134	4048	3984
50°	4006	3935	3864
55°	3882	3830	3724
60°	3696	3636	3529
65°	3530	3440	3333
70°	3300	3210	3099
75°	2985	2926	2838
80°	2529	2487	2441
85°	1908	2001	1908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.0	3.2
10°-20°	158.3	8.9
20°-30°	233.5	13.1
30°-40°	272.1	15.3
40°-50°	273.6	15.4
50°-60°	240.9	13.5
60°-70°	177.8	10.0
70°-80°	98.5	5.5
80°-90°	25.6	1.4
90°-100°	9.1	0.5
100°-110°	23.5	1.3
110°-120°	38.2	2.1
120°-130°	47.7	2.7
130°-140°	44.8	2.5
140°-150°	35.3	2.0
150°-160°	24.3	1.4
160°-170°	14.3	0.8
170°-180°	4.7	0.3
0°-30°	447.8	25.2
0°-40°	719.9	40.5
0°-60°	1234.5	69.4
0°-90°	1536.5	86.4
90°-120°	70.8	4.0
90°-150°	198.6	11.2
90°-180°	242.0	13.6
0°-180°	1778.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	595	595	595	595	595	
5°	596	589	592	590	589	56
15°	567	561	564	561	560	160
25°	513	508	509	503	502	236
35°	442	438	437	430	428	277
45°	362	358	355	350	349	279
55°	276	273	272	266	265	246
65°	185	183	180	176	174	183
75°	96	95	94	91	91	101
85°	21	22	22	21	21	24
90°	2	4	4	4	4	2
95°	7	8	8	8	8	7
105°	18	24	22	24	22	19
115°	26	42	43	38	37	26
125°	35	48	59	61	60	31
135°	40	45	59	73	72	31
145°	45	47	56	65	66	28
155°	47	49	52	55	55	22
165°	49	49	52	52	52	14
175°	50	50	50	50	48	5
180°	49	49	49	49	49	



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CATALOG NUMBER: J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	594.8	594.8	594.8	594.8	594.8
2.5°	598.5	592.0	594.8	592.9	589.2
5°	595.7	589.2	592.0	590.1	589.2
7.5°	590.1	584.5	587.3	585.4	584.5
10°	583.5	577.9	580.7	577.9	577.0
12.5°	577.0	570.4	573.2	569.5	569.5
15°	566.6	561.0	563.8	561.0	560.1
17.5°	555.4	549.8	551.6	548.8	547.9
20°	542.2	536.6	538.5	534.7	532.9
22.5°	528.2	523.5	525.4	518.8	517.9
25°	513.2	508.5	509.4	502.8	501.9
27.5°	498.2	491.6	493.5	486.0	484.1
30°	480.3	474.7	475.6	468.1	466.3
32.5°	460.6	456.9	456.9	449.4	448.4
35°	441.9	438.1	437.2	429.7	427.8
37.5°	423.1	418.4	417.5	409.0	409.0
40°	402.5	398.7	396.8	390.3	389.3
42.5°	382.8	378.1	376.2	369.6	369.6
45°	362.1	358.4	354.6	349.9	349.0
47.5°	340.5	336.8	334.9	329.3	328.4
50°	319.0	316.2	313.3	308.6	307.7
52.5°	296.5	294.6	292.7	288.0	285.2
55°	275.8	273.0	272.1	266.4	264.6
57.5°	253.3	250.5	249.5	243.0	240.2
60°	228.9	226.1	225.2	219.5	218.6
62.5°	207.3	204.5	202.6	198.9	197.0
65°	184.8	182.9	180.1	176.4	174.5
67.5°	162.3	160.4	157.6	154.8	152.9
70°	139.8	137.9	136.0	132.3	131.3
72.5°	117.3	115.4	113.5	111.6	111.6
75°	95.7	94.8	93.8	91.0	91.0
77.5°	74.1	73.2	72.2	71.3	71.3
80°	54.4	54.4	53.5	52.5	52.5
82.5°	36.6	36.6	36.6	35.6	35.6
85°	20.6	21.6	21.6	20.6	20.6
87.5°	8.4	8.4	8.4	8.4	8.4
90°	1.9	3.8	3.8	3.8	3.8
92.5°	3.8	4.7	5.6	6.6	5.6
95°	6.6	7.5	8.4	8.4	8.4
97.5°	10.3	11.3	11.3	11.3	11.3
100°	13.1	15.0	14.1	15.0	14.1
102.5°	15.9	19.7	19.7	17.8	17.8
105°	17.8	24.4	21.6	23.5	21.6
107.5°	19.7	30.0	25.3	26.3	27.2
110°	22.5	33.8	31.0	28.1	29.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.4	41.3	36.6	32.8	31.9
115°	26.3	42.2	43.2	37.5	36.6
117.5°	29.1	42.2	48.8	44.1	42.2
120°	31.0	45.0	53.5	49.7	47.8
122.5°	32.8	46.9	56.3	56.3	54.4
125°	34.7	47.8	59.1	61.0	60.0
127.5°	35.6	45.0	63.8	66.6	65.7
130°	37.5	43.2	62.9	67.5	70.4
132.5°	39.4	44.1	61.0	68.5	70.4
135°	40.3	45.0	59.1	73.2	72.2
137.5°	41.3	46.0	60.0	70.4	75.1
140°	43.2	46.0	61.0	66.6	72.2
142.5°	44.1	46.9	61.0	63.8	67.5
145°	45.0	46.9	56.3	64.7	65.7
147.5°	45.0	47.8	52.5	65.7	65.7
150°	46.0	47.8	52.5	65.7	65.7
152.5°	46.9	48.8	51.6	57.2	64.7
155°	46.9	48.8	51.6	55.4	55.4
157.5°	47.8	48.8	51.6	54.4	54.4
160°	47.8	48.8	51.6	53.5	52.5
162.5°	48.8	48.8	50.7	52.5	51.6
165°	48.8	48.8	51.6	52.5	51.6
167.5°	48.8	49.7	50.7	51.6	50.7
170°	49.7	49.7	50.7	50.7	49.7
172.5°	49.7	49.7	50.7	49.7	48.8
175°	49.7	49.7	49.7	49.7	47.8
177.5°	49.7	48.8	49.7	48.8	46.9
180°	48.8	48.8	48.8	48.8	48.8

(END OF REPORT)