

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: P274850

Luminaire Tested: **J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274850
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-20L82765-1D-UNV-W2A-DLED-W-4 (4000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1877.3 lumens
Efficiency: N/A
Efficacy: 109.1 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

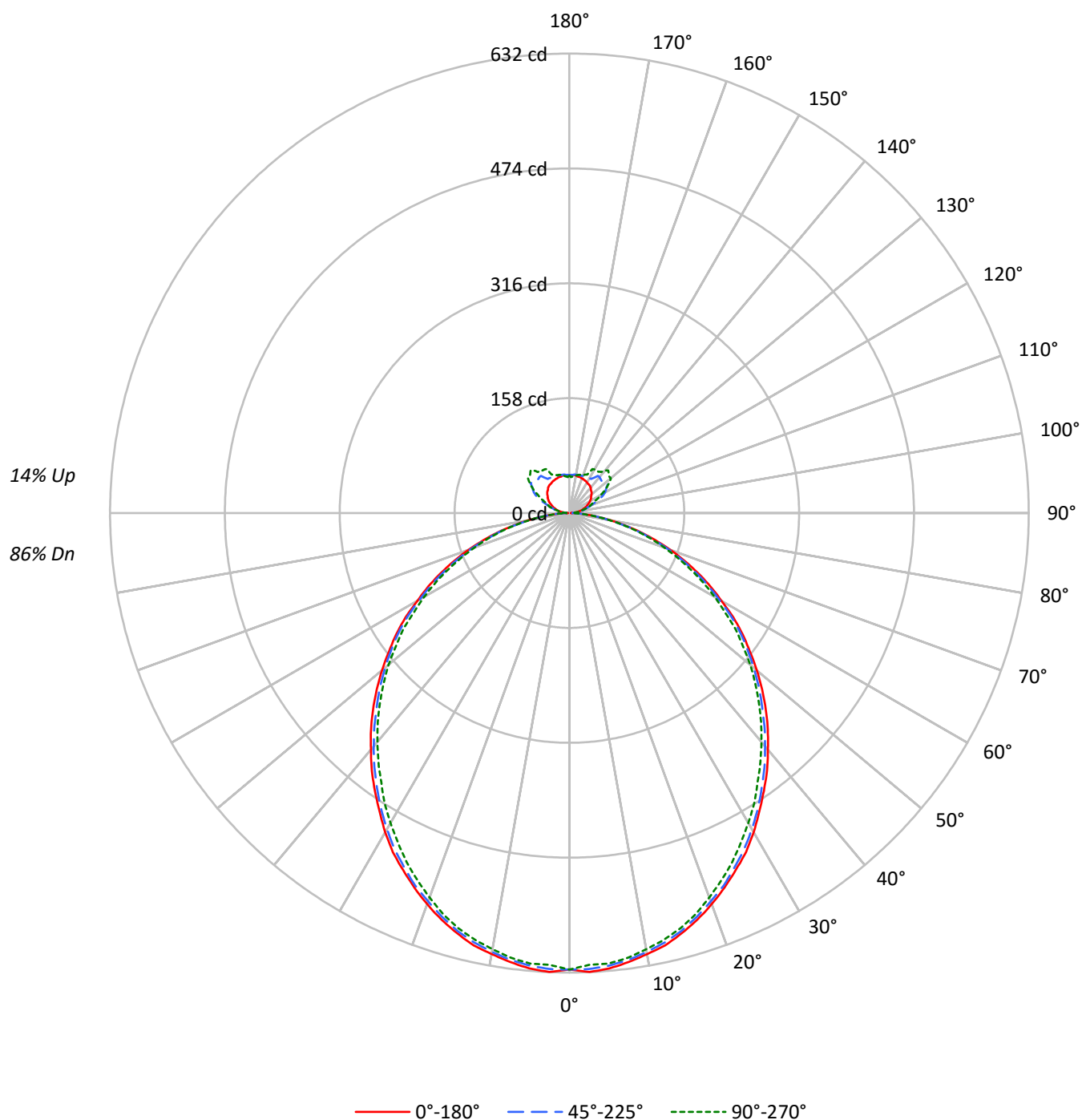
Input Watts (W): 17.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5068	5068	5068
5°	5096	5063	5040
10°	5049	5025	4992
15°	4999	4974	4941
20°	4918	4883	4832
25°	4825	4790	4719
30°	4726	4680	4587
35°	4596	4547	4450
40°	4477	4415	4330
45°	4364	4273	4206
50°	4229	4153	4079
55°	4097	4042	3930
60°	3901	3838	3725
65°	3727	3631	3519
70°	3482	3389	3271
75°	3150	3088	2997
80°	2669	2622	2580
85°	2019	2112	2019



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	3.2
10°-20°	167.1	8.9
20°-30°	246.4	13.1
30°-40°	287.2	15.3
40°-50°	288.8	15.4
50°-60°	254.3	13.5
60°-70°	187.7	10.0
70°-80°	104.0	5.5
80°-90°	27.1	1.4
90°-100°	9.6	0.5
100°-110°	24.8	1.3
110°-120°	40.3	2.1
120°-130°	50.3	2.7
130°-140°	47.3	2.5
140°-150°	37.3	2.0
150°-160°	25.7	1.4
160°-170°	15.2	0.8
170°-180°	5.0	0.3
0°-30°	472.7	25.2
0°-40°	759.9	40.5
0°-60°	1303.0	69.4
0°-90°	1621.8	86.4
90°-120°	74.7	4.0
90°-150°	209.6	11.2
90°-180°	255.0	13.6
0°-180°	1877.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	628	628	628	628	628	
5°	629	622	625	623	622	60
15°	598	592	595	592	591	169
25°	542	537	538	531	530	250
35°	466	462	461	454	452	292
45°	382	378	374	369	368	295
55°	291	288	287	281	279	259
65°	195	193	190	186	184	193
75°	101	100	99	96	96	107
85°	22	23	23	22	22	25
90°	2	4	4	4	4	2
95°	7	8	9	9	9	7
105°	19	26	23	25	23	20
115°	28	45	46	40	39	28
125°	37	50	62	64	63	32
135°	43	48	62	77	76	33
145°	48	50	59	68	69	30
155°	50	52	54	58	58	23
165°	52	52	54	56	54	15
175°	52	52	52	52	50	5
180°	52	52	52	52	52	



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CATALOG NUMBER: J2-WL-20L82765-1D-UNV-W2A-DLED-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	627.8	627.8	627.8	627.8	627.8
2.5°	631.8	624.8	627.8	625.8	621.9
5°	628.8	621.9	624.8	622.9	621.9
7.5°	622.9	616.9	619.9	617.9	616.9
10°	615.9	610.0	613.0	610.0	609.0
12.5°	609.0	602.1	605.0	601.1	601.1
15°	598.1	592.2	595.1	592.2	591.2
17.5°	586.2	580.3	582.3	579.3	578.3
20°	572.4	566.4	568.4	564.4	562.5
22.5°	557.5	552.6	554.5	547.6	546.6
25°	541.7	536.7	537.7	530.8	529.8
27.5°	525.8	518.9	520.9	512.9	511.0
30°	507.0	501.1	502.0	494.1	492.1
32.5°	486.2	482.2	482.2	474.3	473.3
35°	466.4	462.4	461.4	453.5	451.5
37.5°	446.6	441.6	440.7	431.7	431.7
40°	424.8	420.9	418.9	411.9	410.9
42.5°	404.0	399.1	397.1	390.2	390.2
45°	382.2	378.3	374.3	369.4	368.4
47.5°	359.5	355.5	353.5	347.6	346.6
50°	336.7	333.7	330.7	325.8	324.8
52.5°	312.9	310.9	309.0	304.0	301.0
55°	291.1	288.2	287.2	281.2	279.2
57.5°	267.4	264.4	263.4	256.5	253.5
60°	241.6	238.6	237.7	231.7	230.7
62.5°	218.8	215.9	213.9	209.9	207.9
65°	195.1	193.1	190.1	186.2	184.2
67.5°	171.3	169.3	166.4	163.4	161.4
70°	147.5	145.6	143.6	139.6	138.6
72.5°	123.8	121.8	119.8	117.8	117.8
75°	101.0	100.0	99.0	96.1	96.1
77.5°	78.2	77.2	76.2	75.3	75.3
80°	57.4	57.4	56.4	55.5	55.5
82.5°	38.6	38.6	38.6	37.6	37.6
85°	21.8	22.8	22.8	21.8	21.8
87.5°	8.9	8.9	8.9	8.9	8.9
90°	2.0	4.0	4.0	4.0	4.0
92.5°	4.0	5.0	5.9	6.9	5.9
95°	6.9	7.9	8.9	8.9	8.9
97.5°	10.9	11.9	11.9	11.9	11.9
100°	13.9	15.8	14.9	15.8	14.9
102.5°	16.8	20.8	20.8	18.8	18.8
105°	18.8	25.7	22.8	24.8	22.8
107.5°	20.8	31.7	26.7	27.7	28.7
110°	23.8	35.6	32.7	29.7	30.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.7	43.6	38.6	34.7	33.7
115°	27.7	44.6	45.6	39.6	38.6
117.5°	30.7	44.6	51.5	46.5	44.6
120°	32.7	47.5	56.4	52.5	50.5
122.5°	34.7	49.5	59.4	59.4	57.4
125°	36.6	50.5	62.4	64.4	63.4
127.5°	37.6	47.5	67.3	70.3	69.3
130°	39.6	45.6	66.3	71.3	74.3
132.5°	41.6	46.5	64.4	72.3	74.3
135°	42.6	47.5	62.4	77.2	76.2
137.5°	43.6	48.5	63.4	74.3	79.2
140°	45.6	48.5	64.4	70.3	76.2
142.5°	46.5	49.5	64.4	67.3	71.3
145°	47.5	49.5	59.4	68.3	69.3
147.5°	47.5	50.5	55.5	69.3	69.3
150°	48.5	50.5	55.5	69.3	69.3
152.5°	49.5	51.5	54.5	60.4	68.3
155°	49.5	51.5	54.5	58.4	58.4
157.5°	50.5	51.5	54.5	57.4	57.4
160°	50.5	51.5	54.5	56.4	55.5
162.5°	51.5	51.5	53.5	55.5	54.5
165°	51.5	51.5	54.5	55.5	54.5
167.5°	51.5	52.5	53.5	54.5	53.5
170°	52.5	52.5	53.5	53.5	52.5
172.5°	52.5	52.5	53.5	52.5	51.5
175°	52.5	52.5	52.5	52.5	50.5
177.5°	52.5	51.5	52.5	51.5	49.5
180°	51.5	51.5	51.5	51.5	51.5

(END OF REPORT)