

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: P253372

Luminaire Tested: **J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253372
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1979.9 lumens
Efficiency: N/A
Efficacy: 113.8 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

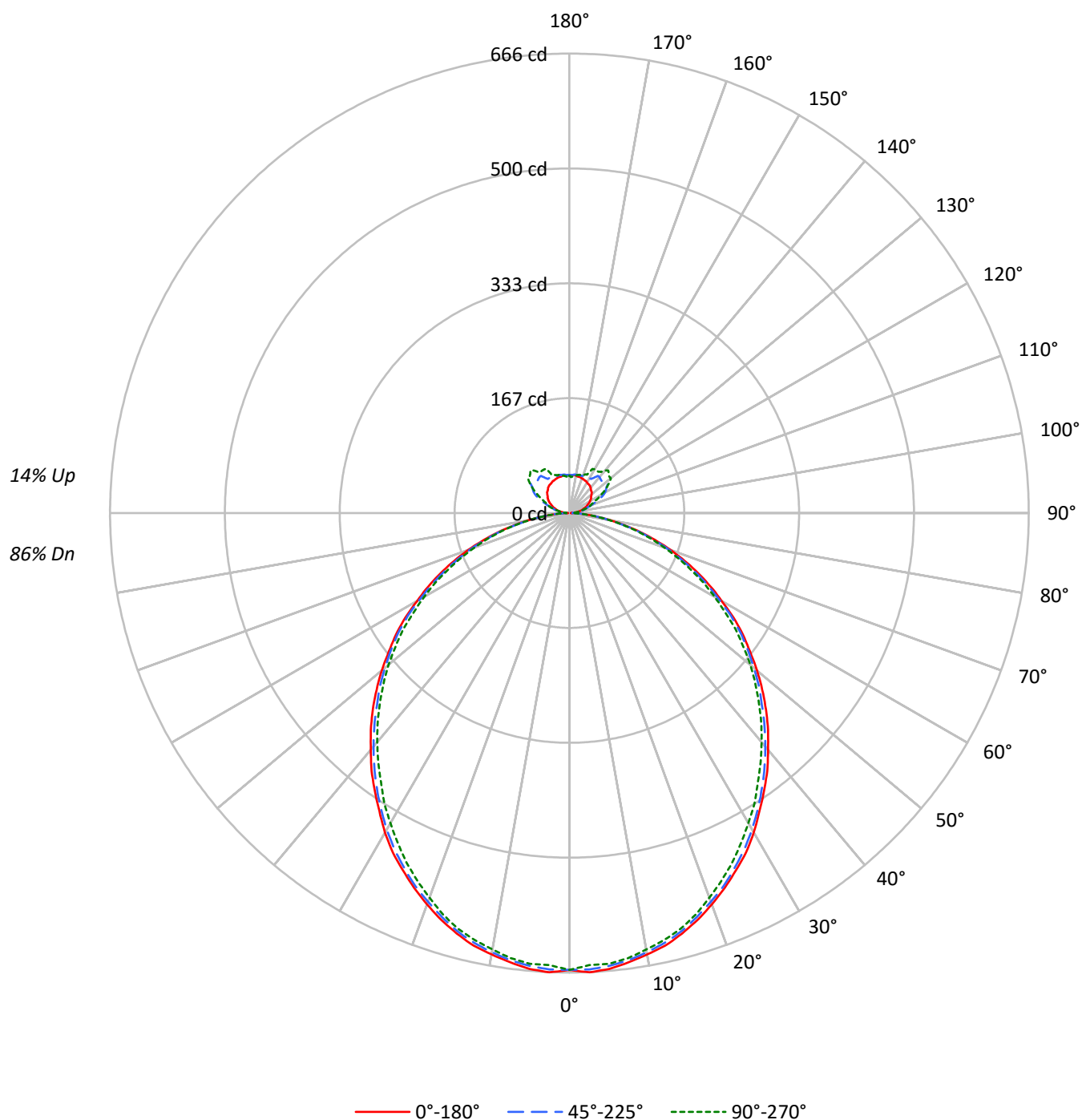
Input Watts (W): 17.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5345	5345	5345
5°	5374	5340	5314
10°	5325	5299	5265
15°	5272	5245	5211
20°	5186	5150	5096
25°	5089	5051	4977
30°	4984	4936	4838
35°	4848	4797	4693
40°	4721	4656	4567
45°	4602	4507	4435
50°	4460	4381	4302
55°	4321	4263	4145
60°	4114	4046	3928
65°	3929	3830	3710
70°	3673	3574	3451
75°	3322	3256	3160
80°	2817	2766	2720
85°	2130	2223	2130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.4	3.2
10°-20°	176.2	8.9
20°-30°	259.9	13.1
30°-40°	302.9	15.3
40°-50°	304.6	15.4
50°-60°	268.2	13.5
60°-70°	198.0	10.0
70°-80°	109.7	5.5
80°-90°	28.6	1.4
90°-100°	10.2	0.5
100°-110°	26.2	1.3
110°-120°	42.5	2.1
120°-130°	53.1	2.7
130°-140°	49.9	2.5
140°-150°	39.3	2.0
150°-160°	27.1	1.4
160°-170°	16.0	0.8
170°-180°	5.3	0.3
0°-30°	498.5	25.2
0°-40°	801.4	40.5
0°-60°	1374.2	69.4
0°-90°	1710.4	86.4
90°-120°	78.8	4.0
90°-150°	221.1	11.2
90°-180°	269.0	13.6
0°-180°	1979.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	663	656	659	657	656	63
15°	631	624	628	624	624	178
25°	571	566	567	560	559	263
35°	492	488	487	478	476	308
45°	403	399	395	390	388	311
55°	307	304	303	297	294	274
65°	206	204	200	196	194	203
75°	106	106	104	101	101	113
85°	23	24	24	23	23	27
90°	2	4	4	4	4	2
95°	7	8	9	9	9	8
105°	20	27	24	26	24	21
115°	29	47	48	42	41	29
125°	39	53	66	68	67	34
135°	45	50	66	82	80	35
145°	50	52	63	72	73	31
155°	52	54	57	62	62	24
165°	54	54	57	58	57	15
175°	55	55	55	55	53	5
180°	54	54	54	54	54	



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CATALOG NUMBER: J2-WL-20L83050-1D-UNV-W2A-DLED-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	666.3	659.0	662.1	660.0	655.8
5°	663.2	655.8	659.0	656.9	655.8
7.5°	656.9	650.6	653.8	651.7	650.6
10°	649.6	643.3	646.4	643.3	642.3
12.5°	642.3	635.0	638.1	633.9	633.9
15°	630.8	624.5	627.6	624.5	623.5
17.5°	618.2	612.0	614.1	610.9	609.9
20°	603.6	597.4	599.5	595.3	593.2
22.5°	588.0	582.7	584.8	577.5	576.5
25°	571.3	566.0	567.1	559.8	558.7
27.5°	554.5	547.2	549.3	541.0	538.9
30°	534.7	528.4	529.5	521.1	519.0
32.5°	512.8	508.6	508.6	500.2	499.2
35°	491.9	487.7	486.7	478.3	476.2
37.5°	471.0	465.8	464.7	455.3	455.3
40°	448.0	443.8	441.8	434.4	433.4
42.5°	426.1	420.9	418.8	411.5	411.5
45°	403.1	398.9	394.8	389.5	388.5
47.5°	379.1	374.9	372.8	366.6	365.5
50°	355.1	351.9	348.8	343.6	342.5
52.5°	330.0	327.9	325.8	320.6	317.5
55°	307.0	303.9	302.9	296.6	294.5
57.5°	282.0	278.8	277.8	270.5	267.4
60°	254.8	251.7	250.6	244.4	243.3
62.5°	230.8	227.7	225.6	221.4	219.3
65°	205.7	203.6	200.5	196.3	194.2
67.5°	180.7	178.6	175.4	172.3	170.2
70°	155.6	153.5	151.4	147.3	146.2
72.5°	130.5	128.5	126.4	124.3	124.3
75°	106.5	105.5	104.4	101.3	101.3
77.5°	82.5	81.5	80.4	79.4	79.4
80°	60.6	60.6	59.5	58.5	58.5
82.5°	40.7	40.7	40.7	39.7	39.7
85°	23.0	24.0	24.0	23.0	23.0
87.5°	9.4	9.4	9.4	9.4	9.4
90°	2.1	4.2	4.2	4.2	4.2
92.5°	4.2	5.2	6.3	7.3	6.3
95°	7.3	8.4	9.4	9.4	9.4
97.5°	11.5	12.5	12.5	12.5	12.5
100°	14.6	16.7	15.7	16.7	15.7
102.5°	17.8	21.9	21.9	19.8	19.8
105°	19.8	27.2	24.0	26.1	24.0
107.5°	21.9	33.4	28.2	29.2	30.3
110°	25.1	37.6	34.5	31.3	32.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.2	46.0	40.7	36.6	35.5
115°	29.2	47.0	48.0	41.8	40.7
117.5°	32.4	47.0	54.3	49.1	47.0
120°	34.5	50.1	59.5	55.3	53.3
122.5°	36.6	52.2	62.7	62.7	60.6
125°	38.6	53.3	65.8	67.9	66.8
127.5°	39.7	50.1	71.0	74.1	73.1
130°	41.8	48.0	70.0	75.2	78.3
132.5°	43.9	49.1	67.9	76.2	78.3
135°	44.9	50.1	65.8	81.5	80.4
137.5°	46.0	51.2	66.8	78.3	83.5
140°	48.0	51.2	67.9	74.1	80.4
142.5°	49.1	52.2	67.9	71.0	75.2
145°	50.1	52.2	62.7	72.1	73.1
147.5°	50.1	53.3	58.5	73.1	73.1
150°	51.2	53.3	58.5	73.1	73.1
152.5°	52.2	54.3	57.4	63.7	72.1
155°	52.2	54.3	57.4	61.6	61.6
157.5°	53.3	54.3	57.4	60.6	60.6
160°	53.3	54.3	57.4	59.5	58.5
162.5°	54.3	54.3	56.4	58.5	57.4
165°	54.3	54.3	57.4	58.5	57.4
167.5°	54.3	55.3	56.4	57.4	56.4
170°	55.3	55.3	56.4	56.4	55.3
172.5°	55.3	55.3	56.4	55.3	54.3
175°	55.3	55.3	55.3	55.3	53.3
177.5°	55.3	54.3	55.3	54.3	52.2
180°	54.3	54.3	54.3	54.3	54.3

(END OF REPORT)