

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: P253370

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253370
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-40L83050-1D-UNV-W2A-DLED-W-4 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3645.2 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

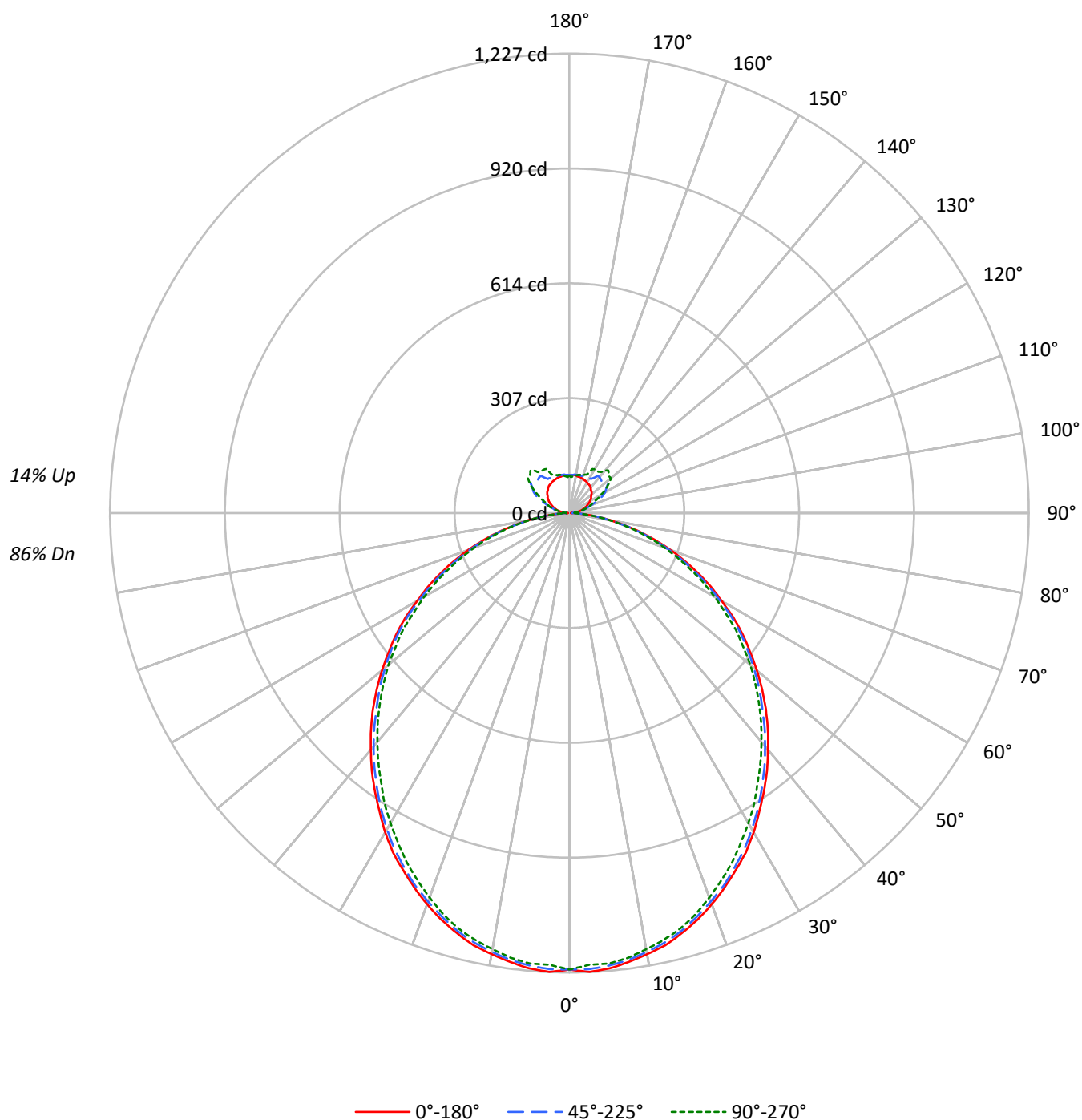
Input Watts (W): 36.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	9841	9841	9841
5°	9894	9832	9785
10°	9803	9757	9694
15°	9706	9658	9594
20°	9547	9482	9382
25°	9368	9300	9163
30°	9176	9087	8908
35°	8925	8830	8641
40°	8693	8571	8409
45°	8474	8298	8166
50°	8210	8066	7921
55°	7956	7848	7631
60°	7576	7451	7233
65°	7236	7053	6831
70°	6762	6581	6354
75°	6117	5998	5817
80°	5184	5095	5007
85°	3918	4094	3918



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	3.2
10°-20°	324.4	8.9
20°-30°	478.5	13.1
30°-40°	557.7	15.3
40°-50°	560.8	15.4
50°-60°	493.8	13.5
60°-70°	364.5	10.0
70°-80°	202.0	5.5
80°-90°	52.6	1.4
90°-100°	18.7	0.5
100°-110°	48.2	1.3
110°-120°	78.2	2.1
120°-130°	97.7	2.7
130°-140°	91.8	2.5
140°-150°	72.4	2.0
150°-160°	49.9	1.4
160°-170°	29.4	0.8
170°-180°	9.7	0.3
0°-30°	917.8	25.2
0°-40°	1475.5	40.5
0°-60°	2530.1	69.4
0°-90°	3149.2	86.4
90°-120°	145.1	4.0
90°-150°	407.1	11.2
90°-180°	496.0	13.6
0°-180°	3645.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1221	1208	1213	1209	1208	116
15°	1161	1150	1156	1150	1148	327
25°	1052	1042	1044	1031	1029	485
35°	906	898	896	881	877	567
45°	742	734	727	717	715	572
55°	565	560	558	546	542	504
65°	379	375	369	362	358	375
75°	196	194	192	186	186	208
85°	42	44	44	42	42	49
90°	4	8	8	8	8	4
95°	14	15	17	17	17	14
105°	36	50	44	48	44	39
115°	54	86	88	77	75	54
125°	71	98	121	125	123	63
135°	83	92	121	150	148	64
145°	92	96	115	133	135	57
155°	96	100	106	113	113	45
165°	100	100	106	108	106	28
175°	102	102	102	102	98	10
180°	100	100	100	100	100	



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CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.0	1219.0	1219.0	1219.0	1219.0
2.5°	1226.7	1213.3	1219.0	1215.2	1207.5
5°	1220.9	1207.5	1213.3	1209.4	1207.5
7.5°	1209.4	1197.9	1203.6	1199.8	1197.9
10°	1195.9	1184.4	1190.2	1184.4	1182.5
12.5°	1182.5	1169.0	1174.8	1167.1	1167.1
15°	1161.3	1149.8	1155.6	1149.8	1147.9
17.5°	1138.3	1126.7	1130.6	1124.8	1122.9
20°	1111.3	1099.8	1103.7	1096.0	1092.1
22.5°	1082.5	1072.9	1076.7	1063.3	1061.4
25°	1051.7	1042.1	1044.1	1030.6	1028.7
27.5°	1021.0	1007.5	1011.4	996.0	992.1
30°	984.4	972.9	974.8	959.5	955.6
32.5°	944.1	936.4	936.4	921.0	919.1
35°	905.6	897.9	896.0	880.6	876.8
37.5°	867.2	857.5	855.6	838.3	838.3
40°	824.9	817.2	813.3	799.9	797.9
42.5°	784.5	774.9	771.0	757.6	757.6
45°	742.2	734.5	726.8	717.2	715.3
47.5°	698.0	690.3	686.4	674.9	673.0
50°	653.7	648.0	642.2	632.6	630.7
52.5°	607.6	603.7	599.9	590.3	584.5
55°	565.3	559.5	557.6	546.1	542.2
57.5°	519.1	513.4	511.5	498.0	492.2
60°	469.2	463.4	461.5	449.9	448.0
62.5°	424.9	419.2	415.3	407.6	403.8
65°	378.8	374.9	369.2	361.5	357.6
67.5°	332.6	328.8	323.0	317.3	313.4
70°	286.5	282.6	278.8	271.1	269.2
72.5°	240.3	236.5	232.7	228.8	228.8
75°	196.1	194.2	192.3	186.5	186.5
77.5°	151.9	150.0	148.1	146.1	146.1
80°	111.5	111.5	109.6	107.7	107.7
82.5°	75.0	75.0	75.0	73.1	73.1
85°	42.3	44.2	44.2	42.3	42.3
87.5°	17.3	17.3	17.3	17.3	17.3
90°	3.8	7.7	7.7	7.7	7.7
92.5°	7.7	9.6	11.5	13.5	11.5
95°	13.5	15.4	17.3	17.3	17.3
97.5°	21.2	23.1	23.1	23.1	23.1
100°	26.9	30.8	28.8	30.8	28.8
102.5°	32.7	40.4	40.4	36.5	36.5
105°	36.5	50.0	44.2	48.1	44.2
107.5°	40.4	61.5	51.9	53.8	55.8
110°	46.1	69.2	63.5	57.7	59.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	50.0	84.6	75.0	67.3	65.4
115°	53.8	86.5	88.4	76.9	75.0
117.5°	59.6	86.5	100.0	90.4	86.5
120°	63.5	92.3	109.6	101.9	98.1
122.5°	67.3	96.1	115.4	115.4	111.5
125°	71.1	98.1	121.1	125.0	123.1
127.5°	73.1	92.3	130.7	136.5	134.6
130°	76.9	88.4	128.8	138.4	144.2
132.5°	80.8	90.4	125.0	140.4	144.2
135°	82.7	92.3	121.1	150.0	148.1
137.5°	84.6	94.2	123.1	144.2	153.8
140°	88.4	94.2	125.0	136.5	148.1
142.5°	90.4	96.1	125.0	130.7	138.4
145°	92.3	96.1	115.4	132.7	134.6
147.5°	92.3	98.1	107.7	134.6	134.6
150°	94.2	98.1	107.7	134.6	134.6
152.5°	96.1	100.0	105.8	117.3	132.7
155°	96.1	100.0	105.8	113.4	113.4
157.5°	98.1	100.0	105.8	111.5	111.5
160°	98.1	100.0	105.8	109.6	107.7
162.5°	100.0	100.0	103.8	107.7	105.8
165°	100.0	100.0	105.8	107.7	105.8
167.5°	100.0	101.9	103.8	105.8	103.8
170°	101.9	101.9	103.8	103.8	101.9
172.5°	101.9	101.9	103.8	101.9	100.0
175°	101.9	101.9	101.9	101.9	98.1
177.5°	101.9	100.0	101.9	100.0	96.1
180°	100.0	100.0	100.0	100.0	100.0

(END OF REPORT)