

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: P253366

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-DLED-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253366
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 (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: 3446.5 lumens
Efficiency: N/A
Efficacy: 94.2 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

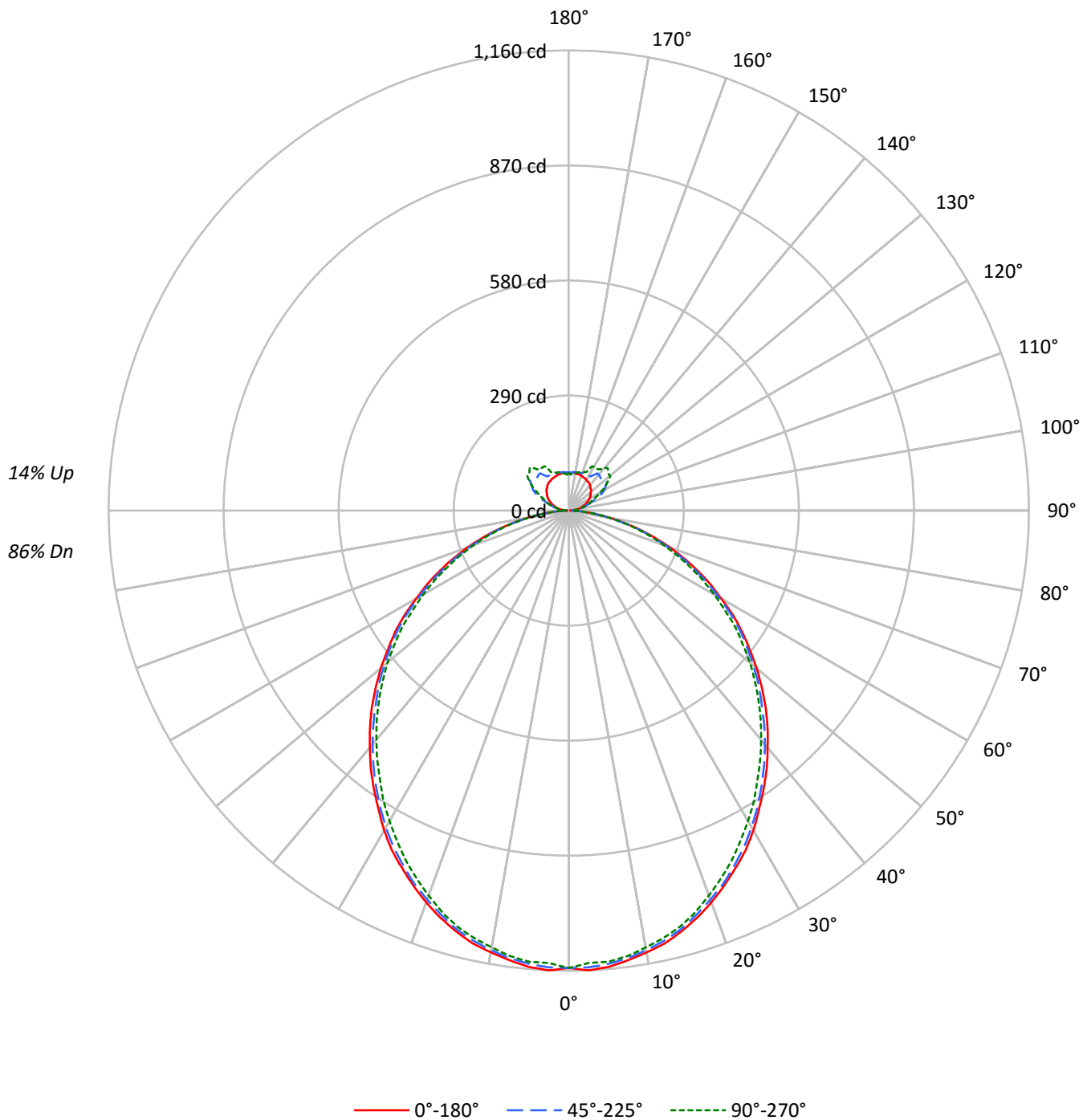
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	9305	9305	9305
5°	9355	9296	9252
10°	9270	9225	9165
15°	9177	9132	9071
20°	9027	8965	8871
25°	8858	8793	8663
30°	8677	8592	8422
35°	8439	8349	8170
40°	8219	8104	7951
45°	8011	7846	7721
50°	7763	7626	7489
55°	7523	7420	7216
60°	7162	7044	6839
65°	6841	6667	6458
70°	6394	6222	6007
75°	5783	5671	5499
80°	4900	4816	4733
85°	3705	3872	3705



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.6	3.2
10°-20°	306.8	8.9
20°-30°	452.4	13.1
30°-40°	527.3	15.3
40°-50°	530.2	15.4
50°-60°	466.9	13.5
60°-70°	344.7	10.0
70°-80°	190.9	5.5
80°-90°	49.7	1.4
90°-100°	17.7	0.5
100°-110°	45.6	1.3
110°-120°	74.0	2.1
120°-130°	92.4	2.7
130°-140°	86.8	2.5
140°-150°	68.4	2.0
150°-160°	47.2	1.4
160°-170°	27.8	0.8
170°-180°	9.2	0.3
0°-30°	867.8	25.2
0°-40°	1395.1	40.5
0°-60°	2392.2	69.4
0°-90°	2977.5	86.4
90°-120°	137.2	4.0
90°-150°	384.9	11.2
90°-180°	469.0	13.6
0°-180°	3446.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1154	1142	1147	1144	1142	109
15°	1098	1087	1093	1087	1085	309
25°	994	985	987	974	973	458
35°	856	849	847	833	829	536
45°	702	694	687	678	676	541
55°	534	529	527	516	513	476
65°	358	354	349	342	338	354
75°	185	184	182	176	176	196
85°	40	42	42	40	40	47
90°	4	7	7	7	7	4
95°	13	14	16	16	16	13
105°	34	47	42	45	42	36
115°	51	82	84	73	71	51
125°	67	93	114	118	116	60
135°	78	87	114	142	140	60
145°	87	91	109	125	127	54
155°	91	94	100	107	107	42
165°	94	94	100	102	100	27
175°	96	96	96	96	93	9
180°	94	94	94	94	94	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1152.6	1152.6	1152.6	1152.6	1152.6
2.5°	1159.9	1147.1	1152.6	1149.0	1141.7
5°	1154.4	1141.7	1147.1	1143.5	1141.7
7.5°	1143.5	1132.6	1138.0	1134.4	1132.6
10°	1130.8	1119.9	1125.3	1119.9	1118.0
12.5°	1118.0	1105.3	1110.8	1103.5	1103.5
15°	1098.0	1087.1	1092.6	1087.1	1085.3
17.5°	1076.2	1065.3	1069.0	1063.5	1061.7
20°	1050.8	1039.9	1043.5	1036.2	1032.6
22.5°	1023.5	1014.4	1018.1	1005.3	1003.5
25°	994.4	985.3	987.2	974.4	972.6
27.5°	965.3	952.6	956.2	941.7	938.1
30°	930.8	919.9	921.7	907.2	903.5
32.5°	892.6	885.3	885.3	870.8	869.0
35°	856.3	849.0	847.2	832.6	829.0
37.5°	819.9	810.8	809.0	792.6	792.6
40°	779.9	772.6	769.0	756.3	754.5
42.5°	741.7	732.6	729.0	716.3	716.3
45°	701.7	694.5	687.2	678.1	676.3
47.5°	659.9	652.6	649.0	638.1	636.3
50°	618.1	612.7	607.2	598.1	596.3
52.5°	574.5	570.8	567.2	558.1	552.7
55°	534.5	529.0	527.2	516.3	512.7
57.5°	490.8	485.4	483.6	470.9	465.4
60°	443.6	438.1	436.3	425.4	423.6
62.5°	401.8	396.3	392.7	385.4	381.8
65°	358.1	354.5	349.0	341.8	338.1
67.5°	314.5	310.9	305.4	300.0	296.3
70°	270.9	267.2	263.6	256.3	254.5
72.5°	227.2	223.6	220.0	216.3	216.3
75°	185.4	183.6	181.8	176.3	176.3
77.5°	143.6	141.8	140.0	138.2	138.2
80°	105.4	105.4	103.6	101.8	101.8
82.5°	70.9	70.9	70.9	69.1	69.1
85°	40.0	41.8	41.8	40.0	40.0
87.5°	16.4	16.4	16.4	16.4	16.4
90°	3.6	7.3	7.3	7.3	7.3
92.5°	7.3	9.1	10.9	12.7	10.9
95°	12.7	14.5	16.4	16.4	16.4
97.5°	20.0	21.8	21.8	21.8	21.8
100°	25.5	29.1	27.3	29.1	27.3
102.5°	30.9	38.2	38.2	34.5	34.5
105°	34.5	47.3	41.8	45.4	41.8
107.5°	38.2	58.2	49.1	50.9	52.7
110°	43.6	65.4	60.0	54.5	56.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	47.3	80.0	70.9	63.6	61.8
115°	50.9	81.8	83.6	72.7	70.9
117.5°	56.4	81.8	94.5	85.4	81.8
120°	60.0	87.3	103.6	96.4	92.7
122.5°	63.6	90.9	109.1	109.1	105.4
125°	67.3	92.7	114.5	118.2	116.3
127.5°	69.1	87.3	123.6	129.1	127.3
130°	72.7	83.6	121.8	130.9	136.3
132.5°	76.4	85.4	118.2	132.7	136.3
135°	78.2	87.3	114.5	141.8	140.0
137.5°	80.0	89.1	116.3	136.3	145.4
140°	83.6	89.1	118.2	129.1	140.0
142.5°	85.4	90.9	118.2	123.6	130.9
145°	87.3	90.9	109.1	125.4	127.3
147.5°	87.3	92.7	101.8	127.3	127.3
150°	89.1	92.7	101.8	127.3	127.3
152.5°	90.9	94.5	100.0	110.9	125.4
155°	90.9	94.5	100.0	107.3	107.3
157.5°	92.7	94.5	100.0	105.4	105.4
160°	92.7	94.5	100.0	103.6	101.8
162.5°	94.5	94.5	98.2	101.8	100.0
165°	94.5	94.5	100.0	101.8	100.0
167.5°	94.5	96.4	98.2	100.0	98.2
170°	96.4	96.4	98.2	98.2	96.4
172.5°	96.4	96.4	98.2	96.4	94.5
175°	96.4	96.4	96.4	96.4	92.7
177.5°	96.4	94.5	96.4	94.5	90.9
180°	94.5	94.5	94.5	94.5	94.5

(END OF REPORT)