

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: P253367

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253367
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-50L83050-1D-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: 4360.7 lumens
Efficiency: N/A
Efficacy: 86.2 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

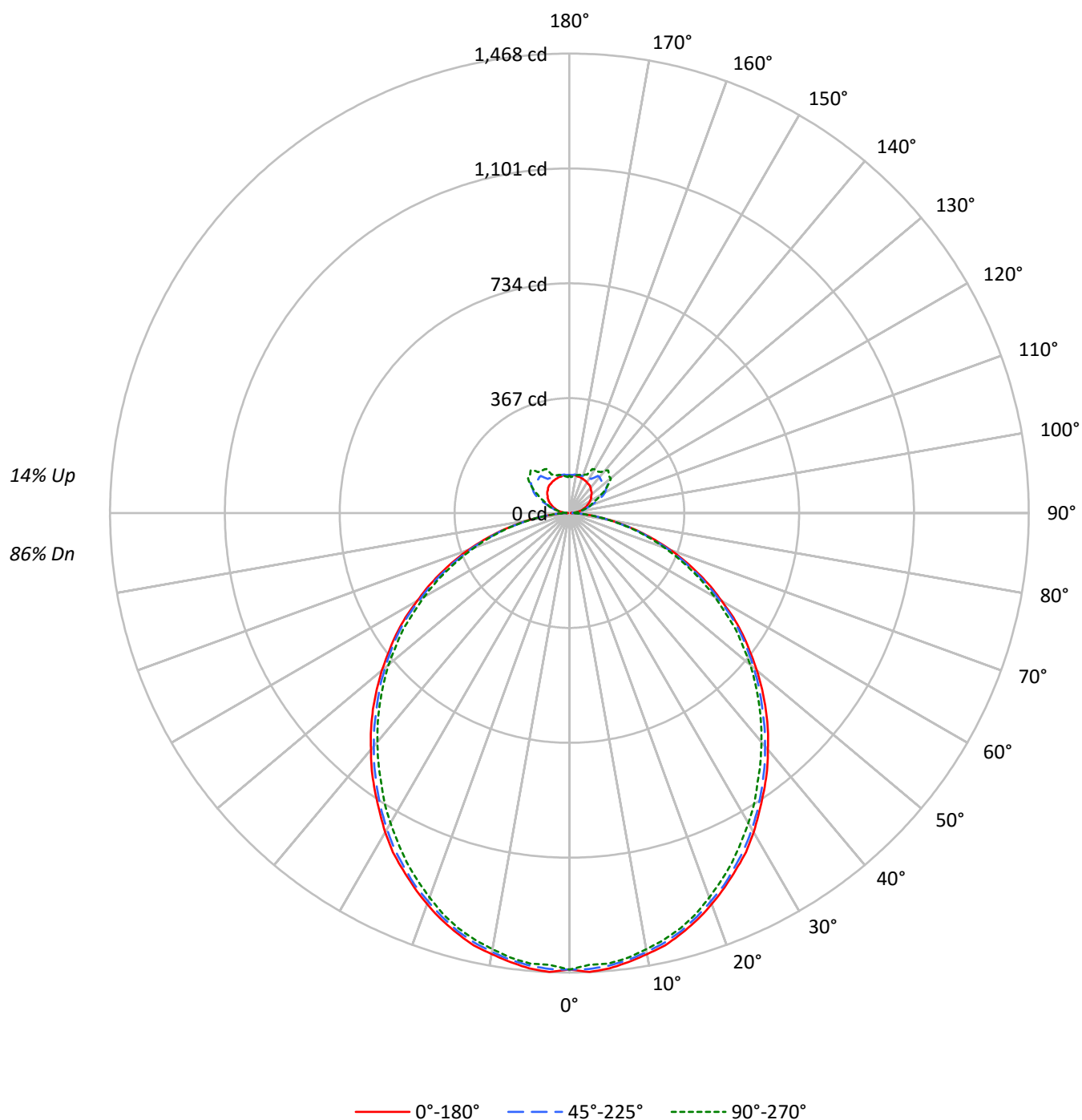
Input Watts (W): 50.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11773	11773	11773
5°	11836	11762	11706
10°	11728	11672	11596
15°	11611	11554	11477
20°	11422	11343	11224
25°	11207	11125	10962
30°	10978	10871	10657
35°	10677	10564	10337
40°	10399	10254	10060
45°	10137	9927	9769
50°	9823	9649	9476
55°	9519	9389	9130
60°	9063	8914	8654
65°	8655	8436	8172
70°	8089	7872	7600
75°	7318	7174	6959
80°	6202	6095	5988
85°	4687	4900	4687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.4	3.2
10°-20°	388.1	8.9
20°-30°	572.4	13.1
30°-40°	667.2	15.3
40°-50°	670.9	15.4
50°-60°	590.8	13.5
60°-70°	436.1	10.0
70°-80°	241.6	5.5
80°-90°	62.9	1.4
90°-100°	22.4	0.5
100°-110°	57.6	1.3
110°-120°	93.6	2.1
120°-130°	116.9	2.7
130°-140°	109.8	2.5
140°-150°	86.6	2.0
150°-160°	59.7	1.4
160°-170°	35.2	0.8
170°-180°	11.6	0.3
0°-30°	1097.9	25.2
0°-40°	1765.2	40.5
0°-60°	3026.8	69.4
0°-90°	3767.3	86.4
90°-120°	173.6	4.0
90°-150°	486.9	11.2
90°-180°	593.0	13.6
0°-180°	4360.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1458	1458	1458	1458	1458	
5°	1461	1444	1451	1447	1444	138
15°	1389	1376	1382	1376	1373	392
25°	1258	1247	1249	1233	1231	580
35°	1083	1074	1072	1054	1049	678
45°	888	879	870	858	856	684
55°	676	669	667	653	649	603
65°	453	448	442	432	428	448
75°	235	232	230	223	223	248
85°	51	53	53	51	51	59
90°	5	9	9	9	9	5
95°	16	18	21	21	21	17
105°	44	60	53	58	53	46
115°	64	104	106	92	90	65
125°	85	117	145	150	147	75
135°	99	110	145	179	177	76
145°	110	115	138	159	161	69
155°	115	120	126	136	136	53
165°	120	120	126	129	126	34
175°	122	122	122	122	117	12
180°	120	120	120	120	120	



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CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1458.3	1458.3	1458.3	1458.3	1458.3
2.5°	1467.5	1451.4	1458.3	1453.7	1444.5
5°	1460.6	1444.5	1451.4	1446.8	1444.5
7.5°	1446.8	1433.0	1439.9	1435.3	1433.0
10°	1430.7	1416.9	1423.8	1416.9	1414.6
12.5°	1414.6	1398.5	1405.4	1396.2	1396.2
15°	1389.3	1375.5	1382.4	1375.5	1373.2
17.5°	1361.7	1347.9	1352.5	1345.6	1343.3
20°	1329.5	1315.7	1320.3	1311.1	1306.5
22.5°	1295.0	1283.5	1288.1	1272.0	1269.7
25°	1258.2	1246.7	1249.0	1232.9	1230.6
27.5°	1221.4	1205.3	1209.9	1191.5	1186.9
30°	1177.7	1163.9	1166.2	1147.8	1143.2
32.5°	1129.4	1120.2	1120.2	1101.8	1099.5
35°	1083.4	1074.2	1071.9	1053.5	1048.9
37.5°	1037.4	1025.9	1023.6	1002.9	1002.9
40°	986.8	977.6	973.0	956.9	954.6
42.5°	938.5	927.0	922.4	906.3	906.3
45°	887.9	878.7	869.5	858.0	855.7
47.5°	835.0	825.8	821.2	807.4	805.1
50°	782.1	775.2	768.3	756.8	754.5
52.5°	726.9	722.3	717.7	706.2	699.3
55°	676.3	669.4	667.1	653.3	648.7
57.5°	621.1	614.2	611.9	595.8	588.9
60°	561.3	554.4	552.1	538.3	536.0
62.5°	508.4	501.5	496.9	487.6	483.0
65°	453.1	448.5	441.6	432.4	427.8
67.5°	397.9	393.3	386.4	379.5	374.9
70°	342.7	338.1	333.5	324.3	322.0
72.5°	287.5	282.9	278.3	273.7	273.7
75°	234.6	232.3	230.0	223.1	223.1
77.5°	181.7	179.4	177.1	174.8	174.8
80°	133.4	133.4	131.1	128.8	128.8
82.5°	89.7	89.7	89.7	87.4	87.4
85°	50.6	52.9	52.9	50.6	50.6
87.5°	20.7	20.7	20.7	20.7	20.7
90°	4.6	9.2	9.2	9.2	9.2
92.5°	9.2	11.5	13.8	16.1	13.8
95°	16.1	18.4	20.7	20.7	20.7
97.5°	25.3	27.6	27.6	27.6	27.6
100°	32.2	36.8	34.5	36.8	34.5
102.5°	39.1	48.3	48.3	43.7	43.7
105°	43.7	59.8	52.9	57.5	52.9
107.5°	48.3	73.6	62.1	64.4	66.7
110°	55.2	82.8	75.9	69.0	71.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.8	101.2	89.7	80.5	78.2
115°	64.4	103.5	105.8	92.0	89.7
117.5°	71.3	103.5	119.6	108.1	103.5
120°	75.9	110.4	131.1	121.9	117.3
122.5°	80.5	115.0	138.0	138.0	133.4
125°	85.1	117.3	144.9	149.5	147.2
127.5°	87.4	110.4	156.4	163.3	161.0
130°	92.0	105.8	154.1	165.6	172.5
132.5°	96.6	108.1	149.5	167.9	172.5
135°	98.9	110.4	144.9	179.4	177.1
137.5°	101.2	112.7	147.2	172.5	184.0
140°	105.8	112.7	149.5	163.3	177.1
142.5°	108.1	115.0	149.5	156.4	165.6
145°	110.4	115.0	138.0	158.7	161.0
147.5°	110.4	117.3	128.8	161.0	161.0
150°	112.7	117.3	128.8	161.0	161.0
152.5°	115.0	119.6	126.5	140.3	158.7
155°	115.0	119.6	126.5	135.7	135.7
157.5°	117.3	119.6	126.5	133.4	133.4
160°	117.3	119.6	126.5	131.1	128.8
162.5°	119.6	119.6	124.2	128.8	126.5
165°	119.6	119.6	126.5	128.8	126.5
167.5°	119.6	121.9	124.2	126.5	124.2
170°	121.9	121.9	124.2	124.2	121.9
172.5°	121.9	121.9	124.2	121.9	119.6
175°	121.9	121.9	121.9	121.9	117.3
177.5°	121.9	119.6	121.9	119.6	115.0
180°	119.6	119.6	119.6	119.6	119.6

(END OF REPORT)