

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: P253285

Luminaire Tested: **J2-WL-50L835-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253285
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-50L835-1D-UNV-STD-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
Light Source: (112) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4960.8 lumens
Efficiency: N/A
Efficacy: 115.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.18 / 1.31
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

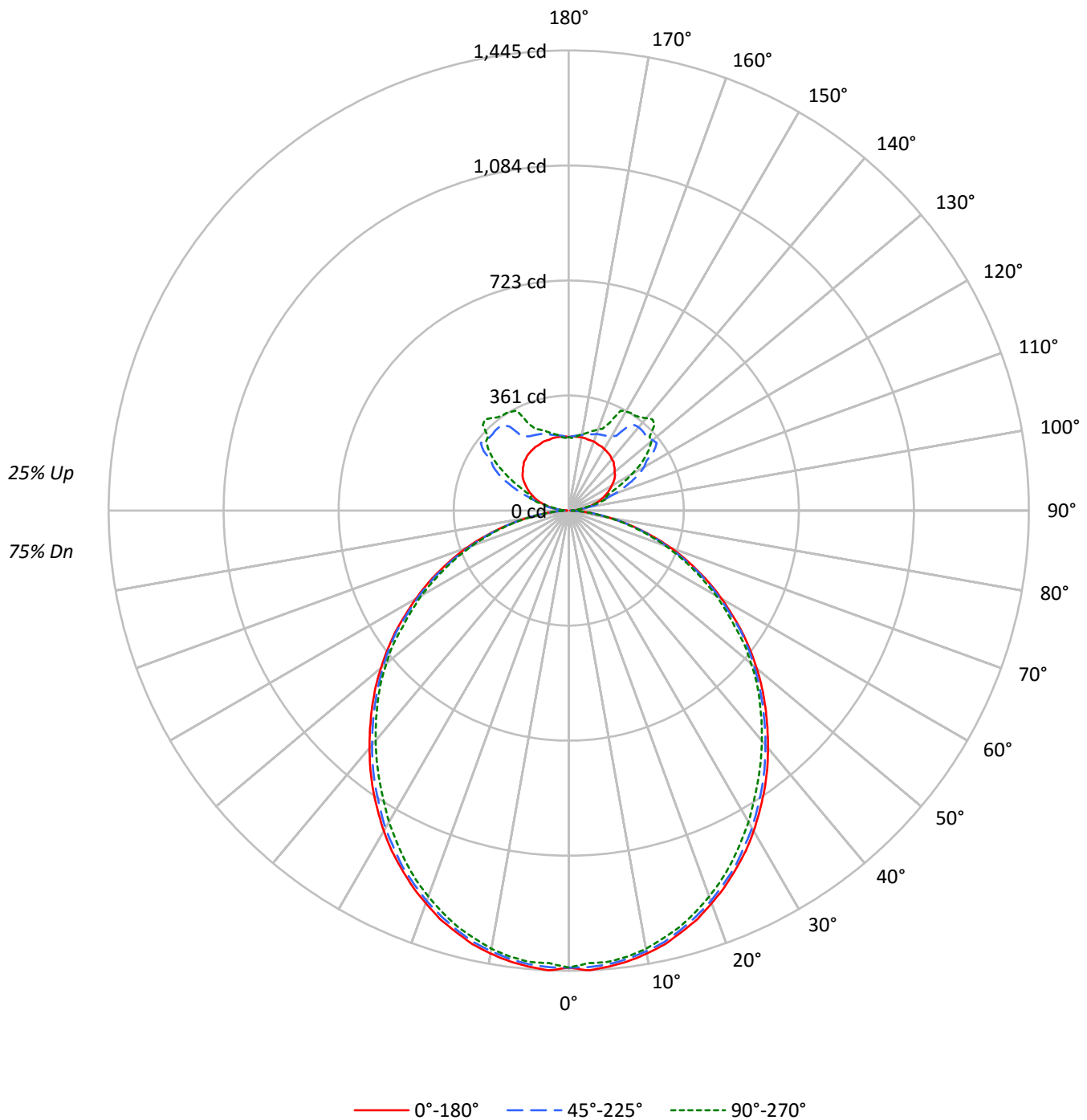
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253285

CATALOG NUMBER: J2-WL-50L835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P253285

CATALOG NUMBER: J2-WL-50L835-1D-UNV-STD-W-4

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	113	113	113	113	108	108	108	108	97	97	97		88	88	88		79
1	103	99	95	91	98	94	91	87	85	83	80		77	75	73		70
2	94	86	80	75	89	82	77	72	75	70	66		68	64	61		62
3	86	76	68	62	81	73	66	60	66	60	56		60	56	52		55
4	79	67	59	53	75	64	57	51	59	53	48		54	49	44		49
5	72	60	52	45	69	58	50	44	53	46	41		48	43	39		44
6	67	54	46	40	63	52	44	38	48	41	36		44	38	34		40
7	62	49	41	35	59	47	39	34	43	37	32		40	34	30		36
8	58	45	37	31	55	43	35	30	40	33	29		36	31	27		34
9	54	41	33	28	51	39	32	27	36	30	26		34	28	24		31
10	50	38	30	25	48	36	29	24	34	27	23		31	26	22		29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11585	11585	11585
5°	11650	11588	11528
10°	11579	11517	11455
15°	11448	11386	11302
20°	11272	11208	11078
25°	11062	10995	10816
30°	10828	10735	10524
35°	10558	10434	10211
40°	10258	10126	9941
45°	9968	9824	9682
50°	9673	9548	9389
55°	9357	9287	8968
60°	8953	8830	8628
65°	8531	8386	8147
70°	8054	7759	7638
75°	7199	7121	6887
80°	6067	6067	5830
85°	4650	4881	4650



TEST NUMBER: P253285

CATALOG NUMBER: J2-WL-50L835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	2.7
10°-20°	382.7	7.7
20°-30°	564.9	11.4
30°-40°	658.5	13.3
40°-50°	662.7	13.4
50°-60°	583.5	11.8
60°-70°	433.1	8.7
70°-80°	241.0	4.9
80°-90°	62.7	1.3
90°-100°	31.7	0.6
100°-110°	113.6	2.3
110°-120°	198.6	4.0
120°-130°	250.4	5.0
130°-140°	237.0	4.8
140°-150°	188.7	3.8
150°-160°	123.9	2.5
160°-170°	70.0	1.4
170°-180°	22.5	0.5
0°-30°	1083.0	21.8
0°-40°	1741.5	35.1
0°-60°	2987.7	60.2
0°-90°	3724.5	75.1
90°-120°	343.9	6.9
90°-150°	1020.0	20.6
90°-180°	1236.0	24.9
0°-180°	4960.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1438	1422	1430	1425	1422	136
15°	1370	1355	1362	1355	1352	386
25°	1242	1229	1234	1217	1214	572
35°	1071	1059	1059	1041	1036	670
45°	873	866	860	848	848	674
55°	665	662	660	642	637	593
65°	447	447	439	429	426	443
75°	231	231	228	223	221	246
85°	50	53	53	53	50	58
90°	5	8	8	10	10	6
95°	28	30	25	23	20	29
105°	85	133	100	113	103	91
115°	136	261	218	178	163	133
125°	176	281	326	304	294	156
135°	201	233	339	381	381	155
145°	218	238	321	361	364	137
155°	226	238	261	281	304	105
165°	231	236	248	256	256	66
175°	233	233	236	236	231	22
180°	231	231	231	231	231	



TEST NUMBER: P253285

CATALOG NUMBER: J2-WL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.0	1435.0	1435.0	1435.0	1435.0
2.5°	1445.1	1427.5	1435.0	1432.5	1422.5
5°	1437.6	1422.5	1430.0	1425.0	1422.5
7.5°	1427.5	1412.5	1420.0	1415.0	1412.5
10°	1412.5	1397.4	1404.9	1397.4	1397.4
12.5°	1394.9	1377.3	1387.4	1377.3	1374.8
15°	1369.8	1354.8	1362.3	1354.8	1352.3
17.5°	1344.7	1329.7	1334.7	1327.2	1322.2
20°	1312.1	1299.6	1304.6	1292.0	1289.5
22.5°	1279.5	1267.0	1269.5	1256.9	1254.4
25°	1241.9	1229.3	1234.3	1216.8	1214.3
27.5°	1204.2	1189.2	1191.7	1174.1	1171.6
30°	1161.6	1149.0	1151.6	1131.5	1129.0
32.5°	1116.4	1103.9	1103.9	1086.3	1081.3
35°	1071.3	1058.7	1058.7	1041.2	1036.1
37.5°	1023.6	1011.1	1011.1	993.5	991.0
40°	973.4	963.4	960.9	943.3	943.3
42.5°	923.2	915.7	910.7	895.7	895.7
45°	873.1	865.5	860.5	848.0	848.0
47.5°	822.9	815.4	810.4	800.3	800.3
50°	770.2	765.2	760.2	750.1	747.6
52.5°	717.5	715.0	710.0	700.0	697.5
55°	664.8	662.3	659.8	642.3	637.2
57.5°	607.1	604.6	599.6	587.1	584.6
60°	554.5	549.4	546.9	534.4	534.4
62.5°	501.8	499.3	494.2	481.7	479.2
65°	446.6	446.6	439.0	429.0	426.5
67.5°	393.9	391.4	383.9	376.3	373.8
70°	341.2	338.7	328.7	326.1	323.6
72.5°	286.0	283.5	278.5	273.5	271.0
75°	230.8	230.8	228.3	223.3	220.8
77.5°	180.6	180.6	178.1	175.6	173.1
80°	130.5	133.0	130.5	128.0	125.4
82.5°	87.8	90.3	87.8	87.8	85.3
85°	50.2	52.7	52.7	52.7	50.2
87.5°	20.1	22.6	22.6	20.1	20.1
90°	5.0	7.5	7.5	10.0	10.0
92.5°	12.5	15.1	12.5	15.1	12.5
95°	27.6	30.1	25.1	22.6	20.1
97.5°	42.7	55.2	40.1	37.6	35.1
100°	57.7	72.8	65.2	52.7	45.2
102.5°	72.8	102.9	95.3	75.3	67.7
105°	85.3	133.0	100.4	112.9	102.9
107.5°	100.4	163.1	120.4	120.4	128.0
110°	112.9	203.2	153.0	125.4	125.4



TEST NUMBER: P253285

CATALOG NUMBER: J2-WL-50L835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	122.9	253.4	185.7	145.5	135.5
115°	135.5	260.9	218.3	178.1	163.1
117.5°	145.5	265.9	248.4	213.3	195.7
120°	155.5	273.5	273.5	243.4	228.3
122.5°	165.6	278.5	288.5	276.0	263.4
125°	175.6	281.0	326.1	303.6	293.5
127.5°	183.1	268.4	348.7	323.6	318.6
130°	188.2	238.3	343.7	331.2	338.7
132.5°	195.7	230.8	338.7	363.8	343.7
135°	200.7	233.3	338.7	381.3	381.3
137.5°	208.2	235.8	341.2	371.3	388.9
140°	210.7	235.8	341.2	363.8	378.8
142.5°	215.8	238.3	338.7	358.8	368.8
145°	218.3	238.3	321.1	361.3	363.8
147.5°	220.8	238.3	278.5	356.3	363.8
150°	223.3	238.3	268.4	353.7	358.8
152.5°	225.8	238.3	263.4	321.1	353.7
155°	225.8	238.3	260.9	281.0	303.6
157.5°	228.3	238.3	258.4	273.5	278.5
160°	230.8	238.3	255.9	268.4	271.0
162.5°	230.8	235.8	250.9	263.4	263.4
165°	230.8	235.8	248.4	255.9	255.9
167.5°	233.3	235.8	243.4	250.9	248.4
170°	233.3	233.3	240.8	245.9	243.4
172.5°	233.3	233.3	238.3	240.8	238.3
175°	233.3	233.3	235.8	235.8	230.8
177.5°	233.3	233.3	233.3	233.3	228.3
180°	230.8	230.8	230.8	230.8	230.8

(END OF REPORT)