

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: P253289

Luminaire Tested: **J2-WL-50L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253289
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-50L840-1D-UNV-STD-W-4
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
Light Source: (112) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5056.2 lumens
Efficiency: N/A
Efficacy: 117.9 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

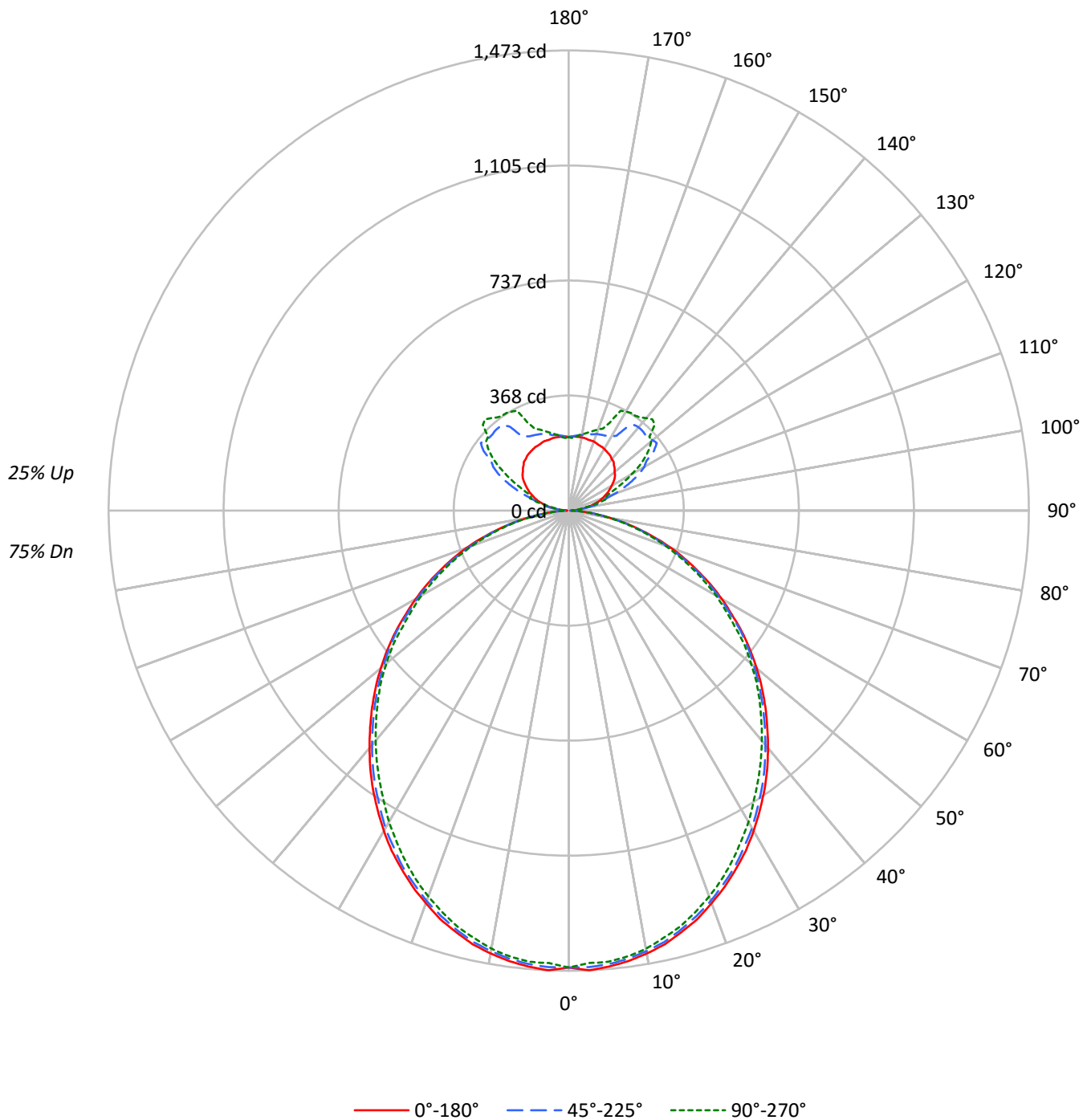
Input Watts (W): 42.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79
1	103	99	95	91	98	94	91	87	85	83	80	77	75	73	70	68	67
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	62	59	56
3	86	76	68	62	81	73	66	60	66	60	56	60	56	52	55	51	48
4	79	67	59	53	75	64	57	51	59	53	48	54	49	44	49	45	41
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	40	36
6	67	54	46	40	63	52	44	38	48	41	36	44	38	34	40	35	32
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28
8	58	45	37	31	55	43	35	30	40	33	29	36	31	27	34	29	25
9	54	41	33	28	51	39	32	27	36	30	26	34	28	24	31	26	23
10	50	38	30	25	48	36	29	24	34	27	23	31	26	22	29	24	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11807	11807	11807
5°	11874	11811	11750
10°	11801	11739	11676
15°	11669	11605	11519
20°	11489	11424	11291
25°	11275	11207	11024
30°	11036	10941	10727
35°	10761	10635	10408
40°	10455	10321	10133
45°	10160	10014	9868
50°	9859	9731	9570
55°	9537	9465	9142
60°	9124	9000	8795
65°	8695	8548	8304
70°	8209	7907	7787
75°	7339	7258	7018
80°	6183	6183	5946
85°	4733	4974	4733



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.0	2.7
10°-20°	390.1	7.7
20°-30°	575.7	11.4
30°-40°	671.2	13.3
40°-50°	675.4	13.4
50°-60°	594.8	11.8
60°-70°	441.4	8.7
70°-80°	245.6	4.9
80°-90°	63.9	1.3
90°-100°	32.3	0.6
100°-110°	115.8	2.3
110°-120°	202.4	4.0
120°-130°	255.2	5.0
130°-140°	241.6	4.8
140°-150°	192.3	3.8
150°-160°	126.2	2.5
160°-170°	71.3	1.4
170°-180°	23.0	0.5
0°-30°	1103.8	21.8
0°-40°	1775.0	35.1
0°-60°	3045.2	60.2
0°-90°	3796.1	75.1
90°-120°	350.5	6.9
90°-150°	1039.6	20.6
90°-180°	1260.0	24.9
0°-180°	5056.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1463	1463	1463	1463	1463	
5°	1465	1450	1458	1452	1450	139
15°	1396	1381	1388	1381	1378	394
25°	1266	1253	1258	1240	1238	583
35°	1092	1079	1079	1061	1056	683
45°	890	882	877	864	864	687
55°	678	675	672	655	650	604
65°	455	455	448	437	435	451
75°	235	235	233	228	225	251
85°	51	54	54	54	51	59
90°	5	8	8	10	10	6
95°	28	31	26	23	20	29
105°	87	136	102	115	105	92
115°	138	266	222	182	166	136
125°	179	286	332	309	299	159
135°	205	238	345	389	389	158
145°	222	243	327	368	371	139
155°	230	243	266	286	309	107
165°	235	240	253	261	261	67
175°	238	238	240	240	235	23
180°	235	235	235	235	235	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1462.6	1462.6	1462.6	1462.6	1462.6
2.5°	1472.9	1455.0	1462.6	1460.1	1449.9
5°	1465.2	1449.9	1457.5	1452.4	1449.9
7.5°	1455.0	1439.6	1447.3	1442.2	1439.6
10°	1439.6	1424.3	1432.0	1424.3	1424.3
12.5°	1421.7	1403.8	1414.1	1403.8	1401.3
15°	1396.2	1380.8	1388.5	1380.8	1378.3
17.5°	1370.6	1355.2	1360.4	1352.7	1347.6
20°	1337.3	1324.6	1329.7	1316.9	1314.3
22.5°	1304.1	1291.3	1293.9	1281.1	1278.5
25°	1265.8	1253.0	1258.1	1240.2	1237.6
27.5°	1227.4	1212.1	1214.6	1196.7	1194.2
30°	1183.9	1171.1	1173.7	1153.2	1150.7
32.5°	1137.9	1125.1	1125.1	1107.2	1102.1
35°	1091.9	1079.1	1079.1	1061.2	1056.1
37.5°	1043.3	1030.5	1030.5	1012.6	1010.0
40°	992.1	981.9	979.4	961.5	961.5
42.5°	941.0	933.3	928.2	912.9	912.9
45°	889.9	882.2	877.1	864.3	864.3
47.5°	838.7	831.0	825.9	815.7	815.7
50°	785.0	779.9	774.8	764.6	762.0
52.5°	731.3	728.8	723.7	713.4	710.9
55°	677.6	675.1	672.5	654.6	649.5
57.5°	618.8	616.3	611.1	598.4	595.8
60°	565.1	560.0	557.4	544.7	544.7
62.5°	511.4	508.9	503.7	491.0	488.4
65°	455.2	455.2	447.5	437.3	434.7
67.5°	401.5	398.9	391.2	383.6	381.0
70°	347.8	345.2	335.0	332.4	329.9
72.5°	291.5	288.9	283.8	278.7	276.2
75°	235.3	235.3	232.7	227.6	225.0
77.5°	184.1	184.1	181.6	179.0	176.4
80°	133.0	135.5	133.0	130.4	127.9
82.5°	89.5	92.1	89.5	89.5	86.9
85°	51.1	53.7	53.7	53.7	51.1
87.5°	20.5	23.0	23.0	20.5	20.5
90°	5.1	7.7	7.7	10.2	10.2
92.5°	12.8	15.3	12.8	15.3	12.8
95°	28.1	30.7	25.6	23.0	20.5
97.5°	43.5	56.3	40.9	38.4	35.8
100°	58.8	74.2	66.5	53.7	46.0
102.5°	74.2	104.8	97.2	76.7	69.0
105°	86.9	135.5	102.3	115.1	104.8
107.5°	102.3	166.2	122.7	122.7	130.4
110°	115.1	207.1	156.0	127.9	127.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	125.3	258.3	189.2	148.3	138.1
115°	138.1	265.9	222.5	181.6	166.2
117.5°	148.3	271.0	253.2	217.4	199.5
120°	158.5	278.7	278.7	248.0	232.7
122.5°	168.8	283.8	294.1	281.3	268.5
125°	179.0	286.4	332.4	309.4	299.2
127.5°	186.7	273.6	355.4	329.9	324.7
130°	191.8	242.9	350.3	337.5	345.2
132.5°	199.5	235.3	345.2	370.8	350.3
135°	204.6	237.8	345.2	388.7	388.7
137.5°	212.2	240.4	347.8	378.4	396.3
140°	214.8	240.4	347.8	370.8	386.1
142.5°	219.9	242.9	345.2	365.7	375.9
145°	222.5	242.9	327.3	368.2	370.8
147.5°	225.0	242.9	283.8	363.1	370.8
150°	227.6	242.9	273.6	360.5	365.7
152.5°	230.1	242.9	268.5	327.3	360.5
155°	230.1	242.9	265.9	286.4	309.4
157.5°	232.7	242.9	263.4	278.7	283.8
160°	235.3	242.9	260.8	273.6	276.2
162.5°	235.3	240.4	255.7	268.5	268.5
165°	235.3	240.4	253.2	260.8	260.8
167.5°	237.8	240.4	248.0	255.7	253.2
170°	237.8	237.8	245.5	250.6	248.0
172.5°	237.8	237.8	242.9	245.5	242.9
175°	237.8	237.8	240.4	240.4	235.3
177.5°	237.8	237.8	237.8	237.8	232.7
180°	235.3	235.3	235.3	235.3	235.3

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