

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: P274946

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274946
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-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4603.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

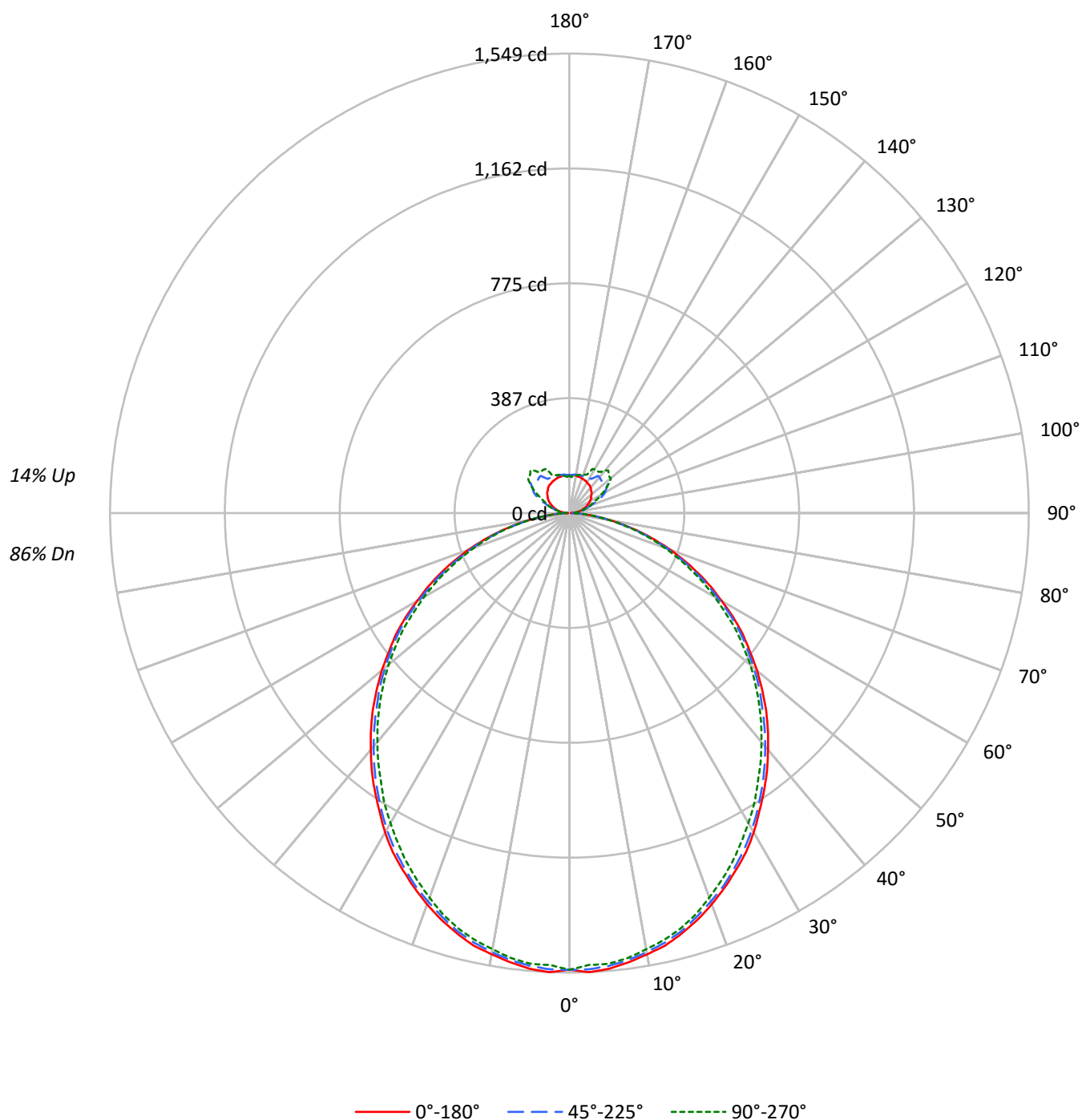
Input Watts (W): 51.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P274946

CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)

Luminous Intensity Polar Plot



TEST NUMBER: P274946

CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)

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	50	30	10	50	30	10		
RCR																									
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90	86							
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73							
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61							
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54	52							
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44							
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38							
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34							
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32	30							
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29	27							
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24							
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24	22							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12427	12427	12427
5°	12494	12415	12357
10°	12380	12320	12240
15°	12257	12196	12115
20°	12057	11972	11848
25°	11830	11744	11571
30°	11588	11475	11249
35°	11270	11150	10911
40°	10977	10823	10619
45°	10700	10478	10312
50°	10368	10184	10002
55°	10047	9910	9637
60°	9565	9408	9134
65°	9137	8905	8627
70°	8540	8311	8023
75°	7726	7573	7346
80°	6546	6434	6323
85°	4946	5169	4946



TEST NUMBER: P274946

CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.0	3.2
10°-20°	409.7	8.9
20°-30°	604.2	13.1
30°-40°	704.3	15.3
40°-50°	708.1	15.4
50°-60°	623.6	13.5
60°-70°	460.3	10.0
70°-80°	255.0	5.5
80°-90°	66.4	1.4
90°-100°	23.6	0.5
100°-110°	60.8	1.3
110°-120°	98.8	2.1
120°-130°	123.4	2.7
130°-140°	115.9	2.5
140°-150°	91.4	2.0
150°-160°	63.0	1.4
160°-170°	37.1	0.8
170°-180°	12.3	0.3
0°-30°	1158.9	25.2
0°-40°	1863.2	40.5
0°-60°	3194.8	69.4
0°-90°	3976.6	86.4
90°-120°	183.2	4.0
90°-150°	514.0	11.2
90°-180°	626.0	13.6
0°-180°	4603.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1539	1539	1539	1539	1539	
5°	1542	1525	1532	1527	1525	146
15°	1466	1452	1459	1452	1450	413
25°	1328	1316	1318	1301	1299	612
35°	1144	1134	1131	1112	1107	716
45°	937	928	918	906	903	722
55°	714	706	704	690	685	636
65°	478	474	466	456	452	473
75°	248	245	243	236	236	262
85°	53	56	56	53	53	62
90°	5	10	10	10	10	6
95°	17	19	22	22	22	18
105°	46	63	56	61	56	49
115°	68	109	112	97	95	68
125°	90	124	153	158	155	80
135°	104	116	153	189	187	81
145°	116	121	146	168	170	73
155°	121	126	134	143	143	56
165°	126	126	134	136	134	36
175°	129	129	129	129	124	12
180°	126	126	126	126	126	



TEST NUMBER: P274946

CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1539.3	1539.3	1539.3	1539.3	1539.3
2.5°	1549.0	1532.0	1539.3	1534.5	1524.8
5°	1541.7	1524.8	1532.0	1527.2	1524.8
7.5°	1527.2	1512.6	1519.9	1515.0	1512.6
10°	1510.2	1495.6	1502.9	1495.6	1493.2
12.5°	1493.2	1476.2	1483.5	1473.8	1473.8
15°	1466.5	1451.9	1459.2	1451.9	1449.5
17.5°	1437.3	1422.8	1427.6	1420.4	1417.9
20°	1403.4	1388.8	1393.6	1383.9	1379.1
22.5°	1366.9	1354.8	1359.7	1342.7	1340.2
25°	1328.1	1315.9	1318.4	1301.4	1299.0
27.5°	1289.2	1272.2	1277.1	1257.7	1252.8
30°	1243.1	1228.5	1231.0	1211.5	1206.7
32.5°	1192.1	1182.4	1182.4	1163.0	1160.6
35°	1143.6	1133.9	1131.4	1112.0	1107.1
37.5°	1095.0	1082.9	1080.4	1058.6	1058.6
40°	1041.6	1031.9	1027.0	1010.0	1007.6
42.5°	990.6	978.5	973.6	956.6	956.6
45°	937.2	927.5	917.8	905.6	903.2
47.5°	881.3	871.6	866.8	852.2	849.8
50°	825.5	818.2	810.9	798.8	796.4
52.5°	767.2	762.4	757.5	745.4	738.1
55°	713.8	706.5	704.1	689.5	684.7
57.5°	655.5	648.3	645.8	628.8	621.6
60°	592.4	585.1	582.7	568.1	565.7
62.5°	536.6	529.3	524.4	514.7	509.9
65°	478.3	473.5	466.2	456.5	451.6
67.5°	420.0	415.2	407.9	400.6	395.8
70°	361.8	356.9	352.1	342.3	339.9
72.5°	303.5	298.6	293.8	288.9	288.9
75°	247.7	245.2	242.8	235.5	235.5
77.5°	191.8	189.4	187.0	184.5	184.5
80°	140.8	140.8	138.4	136.0	136.0
82.5°	94.7	94.7	94.7	92.3	92.3
85°	53.4	55.8	55.8	53.4	53.4
87.5°	21.9	21.9	21.9	21.9	21.9
90°	4.9	9.7	9.7	9.7	9.7
92.5°	9.7	12.1	14.6	17.0	14.6
95°	17.0	19.4	21.9	21.9	21.9
97.5°	26.7	29.1	29.1	29.1	29.1
100°	34.0	38.8	36.4	38.8	36.4
102.5°	41.3	51.0	51.0	46.1	46.1
105°	46.1	63.1	55.8	60.7	55.8
107.5°	51.0	77.7	65.6	68.0	70.4
110°	58.3	87.4	80.1	72.8	75.3



TEST NUMBER: P274946

CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.1	106.8	94.7	85.0	82.6
115°	68.0	109.3	111.7	97.1	94.7
117.5°	75.3	109.3	126.3	114.1	109.3
120°	80.1	116.5	138.4	128.7	123.8
122.5°	85.0	121.4	145.7	145.7	140.8
125°	89.8	123.8	153.0	157.8	155.4
127.5°	92.3	116.5	165.1	172.4	170.0
130°	97.1	111.7	162.7	174.8	182.1
132.5°	102.0	114.1	157.8	177.2	182.1
135°	104.4	116.5	153.0	189.4	187.0
137.5°	106.8	119.0	155.4	182.1	194.2
140°	111.7	119.0	157.8	172.4	187.0
142.5°	114.1	121.4	157.8	165.1	174.8
145°	116.5	121.4	145.7	167.5	170.0
147.5°	116.5	123.8	136.0	170.0	170.0
150°	119.0	123.8	136.0	170.0	170.0
152.5°	121.4	126.3	133.5	148.1	167.5
155°	121.4	126.3	133.5	143.2	143.2
157.5°	123.8	126.3	133.5	140.8	140.8
160°	123.8	126.3	133.5	138.4	136.0
162.5°	126.3	126.3	131.1	136.0	133.5
165°	126.3	126.3	133.5	136.0	133.5
167.5°	126.3	128.7	131.1	133.5	131.1
170°	128.7	128.7	131.1	131.1	128.7
172.5°	128.7	128.7	131.1	128.7	126.3
175°	128.7	128.7	128.7	128.7	123.8
177.5°	128.7	126.3	128.7	126.3	121.4
180°	126.3	126.3	126.3	126.3	126.3

(END OF REPORT)