

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: P274947

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274947
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4686.0 lumens
Efficiency: N/A
Efficacy: 90.6 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

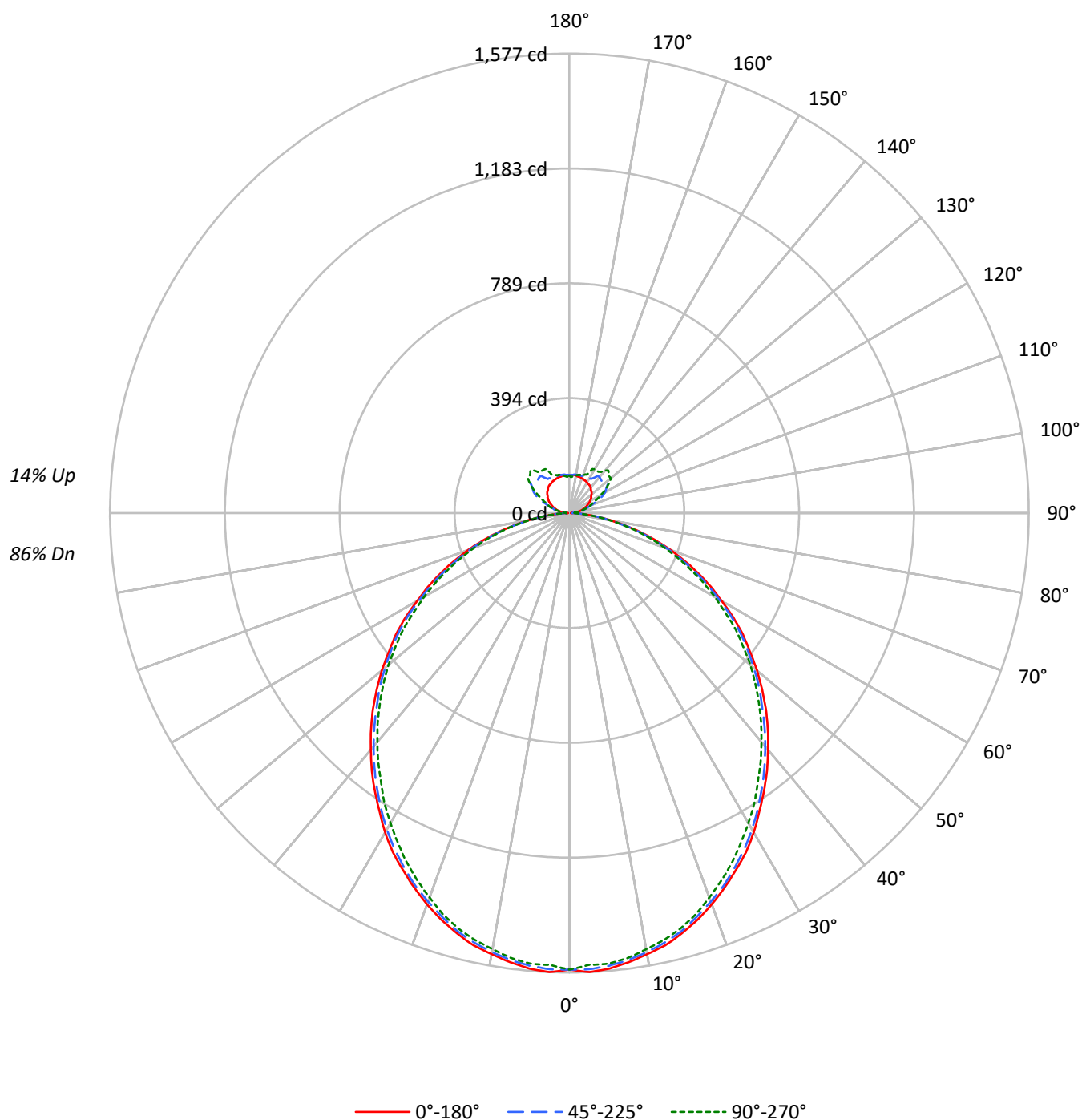
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12651	12651	12651
5°	12720	12639	12580
10°	12603	12542	12461
15°	12477	12415	12333
20°	12274	12189	12061
25°	12043	11956	11779
30°	11797	11682	11452
35°	11473	11351	11108
40°	11175	11018	10810
45°	10893	10667	10498
50°	10555	10369	10182
55°	10228	10089	9810
60°	9738	9578	9298
65°	9301	9066	8781
70°	8693	8460	8167
75°	7863	7711	7480
80°	6667	6550	6434
85°	5039	5270	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	3.2
10°-20°	417.1	8.9
20°-30°	615.1	13.1
30°-40°	717.0	15.3
40°-50°	720.9	15.4
50°-60°	634.8	13.5
60°-70°	468.6	10.0
70°-80°	259.6	5.5
80°-90°	67.6	1.4
90°-100°	24.0	0.5
100°-110°	62.0	1.3
110°-120°	100.6	2.1
120°-130°	125.6	2.7
130°-140°	118.0	2.5
140°-150°	93.1	2.0
150°-160°	64.1	1.4
160°-170°	37.8	0.8
170°-180°	12.5	0.3
0°-30°	1179.8	25.2
0°-40°	1896.8	40.5
0°-60°	3252.5	69.4
0°-90°	4048.3	86.4
90°-120°	186.6	4.0
90°-150°	523.3	11.2
90°-180°	638.0	13.6
0°-180°	4686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1567	1567	1567	1567	1567	
5°	1570	1552	1560	1555	1552	149
15°	1493	1478	1486	1478	1476	421
25°	1352	1340	1342	1325	1322	623
35°	1164	1154	1152	1132	1127	729
45°	954	944	934	922	920	735
55°	727	719	717	702	697	648
65°	487	482	475	465	460	482
75°	252	250	247	240	240	267
85°	54	57	57	54	54	64
90°	5	10	10	10	10	6
95°	17	20	22	22	22	18
105°	47	64	57	62	57	50
115°	69	111	114	99	96	69
125°	92	126	156	161	158	81
135°	106	119	156	193	190	82
145°	119	124	148	171	173	74
155°	124	128	136	146	146	57
165°	128	128	136	138	136	36
175°	131	131	131	131	126	12
180°	128	128	128	128	128	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1567.1	1567.1	1567.1	1567.1	1567.1
2.5°	1577.0	1559.7	1567.1	1562.1	1552.3
5°	1569.6	1552.3	1559.7	1554.7	1552.3
7.5°	1554.7	1539.9	1547.3	1542.4	1539.9
10°	1537.4	1522.6	1530.0	1522.6	1520.1
12.5°	1520.1	1502.8	1510.2	1500.3	1500.3
15°	1492.9	1478.1	1485.5	1478.1	1475.6
17.5°	1463.3	1448.4	1453.4	1446.0	1443.5
20°	1428.7	1413.8	1418.8	1408.9	1403.9
22.5°	1391.6	1379.2	1384.2	1366.9	1364.4
25°	1352.0	1339.7	1342.2	1324.9	1322.4
27.5°	1312.5	1295.2	1300.1	1280.4	1275.4
30°	1265.5	1250.7	1253.2	1233.4	1228.5
32.5°	1213.6	1203.7	1203.7	1184.0	1181.5
35°	1164.2	1154.3	1151.8	1132.1	1127.1
37.5°	1114.8	1102.4	1099.9	1077.7	1077.7
40°	1060.4	1050.5	1045.5	1028.2	1025.8
42.5°	1008.5	996.1	991.2	973.9	973.9
45°	954.1	944.2	934.3	922.0	919.5
47.5°	897.2	887.4	882.4	867.6	865.1
50°	840.4	833.0	825.6	813.2	810.7
52.5°	781.1	776.1	771.2	758.8	751.4
55°	726.7	719.3	716.8	702.0	697.0
57.5°	667.4	660.0	657.5	640.2	632.8
60°	603.1	595.7	593.2	578.4	575.9
62.5°	546.3	538.8	533.9	524.0	519.1
65°	486.9	482.0	474.6	464.7	459.7
67.5°	427.6	422.7	415.3	407.8	402.9
70°	368.3	363.3	358.4	348.5	346.0
72.5°	309.0	304.0	299.1	294.1	294.1
75°	252.1	249.6	247.2	239.8	239.8
77.5°	195.3	192.8	190.3	187.9	187.9
80°	143.4	143.4	140.9	138.4	138.4
82.5°	96.4	96.4	96.4	93.9	93.9
85°	54.4	56.9	56.9	54.4	54.4
87.5°	22.2	22.2	22.2	22.2	22.2
90°	4.9	9.9	9.9	9.9	9.9
92.5°	9.9	12.4	14.8	17.3	14.8
95°	17.3	19.8	22.2	22.2	22.2
97.5°	27.2	29.7	29.7	29.7	29.7
100°	34.6	39.5	37.1	39.5	37.1
102.5°	42.0	51.9	51.9	47.0	47.0
105°	47.0	64.3	56.9	61.8	56.9
107.5°	51.9	79.1	66.7	69.2	71.7
110°	59.3	89.0	81.6	74.2	76.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	64.3	108.8	96.4	86.5	84.0
115°	69.2	111.2	113.7	98.9	96.4
117.5°	76.6	111.2	128.5	116.2	111.2
120°	81.6	118.6	140.9	131.0	126.1
122.5°	86.5	123.6	148.3	148.3	143.4
125°	91.5	126.1	155.7	160.7	158.2
127.5°	93.9	118.6	168.1	175.5	173.0
130°	98.9	113.7	165.6	178.0	185.4
132.5°	103.8	116.2	160.7	180.4	185.4
135°	106.3	118.6	155.7	192.8	190.3
137.5°	108.8	121.1	158.2	185.4	197.7
140°	113.7	121.1	160.7	175.5	190.3
142.5°	116.2	123.6	160.7	168.1	178.0
145°	118.6	123.6	148.3	170.6	173.0
147.5°	118.6	126.1	138.4	173.0	173.0
150°	121.1	126.1	138.4	173.0	173.0
152.5°	123.6	128.5	135.9	150.8	170.6
155°	123.6	128.5	135.9	145.8	145.8
157.5°	126.1	128.5	135.9	143.4	143.4
160°	126.1	128.5	135.9	140.9	138.4
162.5°	128.5	128.5	133.5	138.4	135.9
165°	128.5	128.5	135.9	138.4	135.9
167.5°	128.5	131.0	133.5	135.9	133.5
170°	131.0	131.0	133.5	133.5	131.0
172.5°	131.0	131.0	133.5	131.0	128.5
175°	131.0	131.0	131.0	131.0	126.1
177.5°	131.0	128.5	131.0	128.5	123.6
180°	128.5	128.5	128.5	128.5	128.5

(END OF REPORT)