

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: P253371

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253371
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4612.2 lumens
Efficiency: N/A
Efficacy: 91.0 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

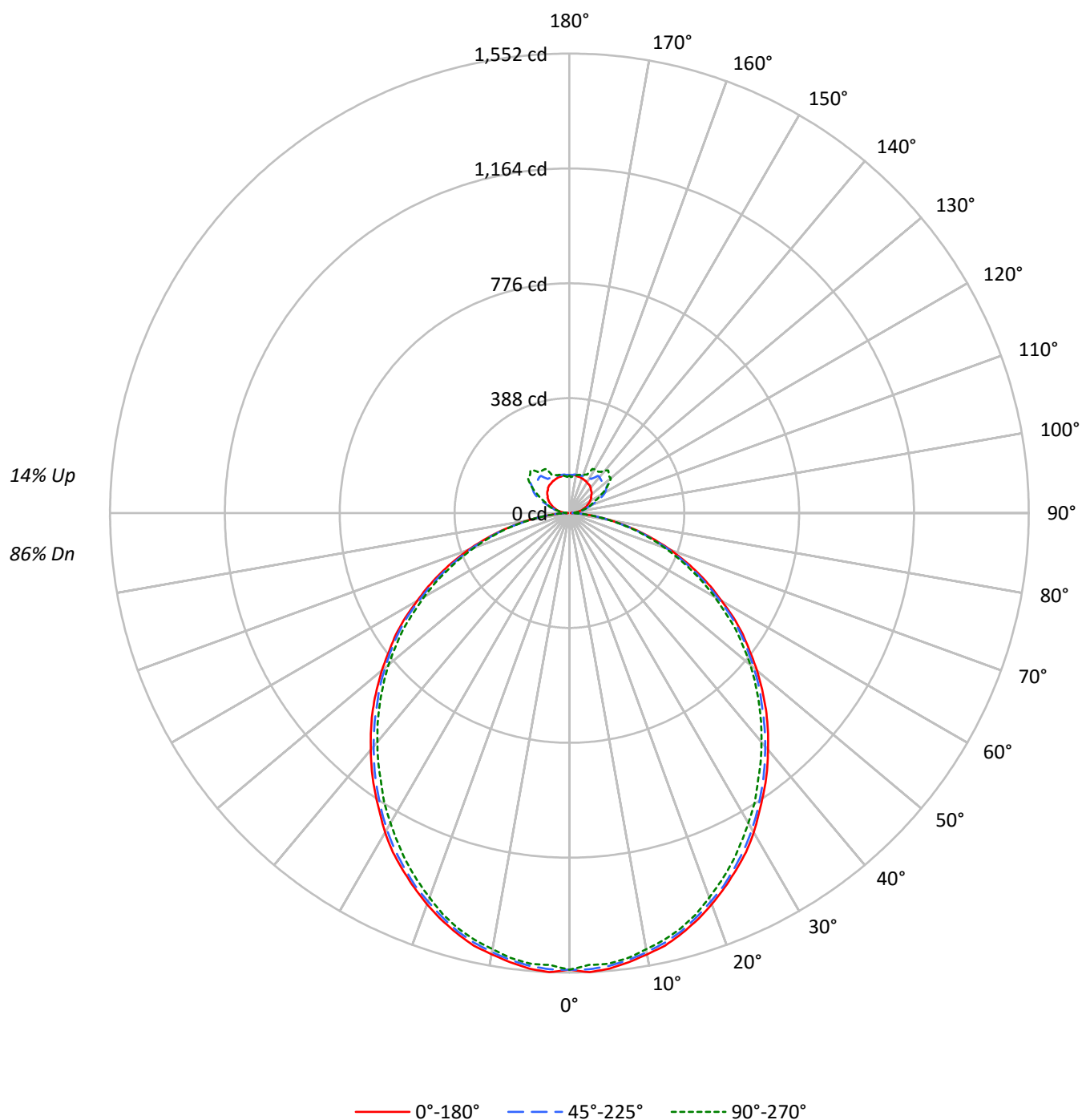
Input Watts (W): 50.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	12452	12452	12452
5°	12519	12440	12381
10°	12404	12345	12265
15°	12281	12220	12139
20°	12081	11997	11871
25°	11854	11767	11594
30°	11611	11498	11271
35°	11293	11173	10933
40°	10999	10845	10640
45°	10722	10499	10332
50°	10389	10206	10022
55°	10066	9930	9657
60°	9584	9428	9151
65°	9156	8923	8644
70°	8556	8327	8039
75°	7739	7589	7361
80°	6560	6448	6332
85°	4956	5187	4956



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.3	3.2
10°-20°	410.5	8.9
20°-30°	605.5	13.1
30°-40°	705.7	15.3
40°-50°	709.5	15.4
50°-60°	624.8	13.5
60°-70°	461.2	10.0
70°-80°	255.5	5.5
80°-90°	66.5	1.4
90°-100°	23.6	0.5
100°-110°	61.0	1.3
110°-120°	99.0	2.1
120°-130°	123.7	2.7
130°-140°	116.2	2.5
140°-150°	91.6	2.0
150°-160°	63.1	1.4
160°-170°	37.2	0.8
170°-180°	12.3	0.3
0°-30°	1161.3	25.2
0°-40°	1866.9	40.5
0°-60°	3201.3	69.4
0°-90°	3984.5	86.4
90°-120°	183.6	4.0
90°-150°	515.1	11.2
90°-180°	628.0	13.6
0°-180°	4612.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1542	1542	1542	1542	1542	
5°	1545	1528	1535	1530	1528	146
15°	1469	1455	1462	1455	1452	414
25°	1331	1319	1321	1304	1302	613
35°	1146	1136	1134	1114	1109	717
45°	939	929	920	907	905	724
55°	715	708	706	691	686	638
65°	479	474	467	457	452	474
75°	248	246	243	236	236	263
85°	54	56	56	54	54	63
90°	5	10	10	10	10	6
95°	17	20	22	22	22	18
105°	46	63	56	61	56	49
115°	68	110	112	97	95	68
125°	90	124	153	158	156	80
135°	105	117	153	190	187	81
145°	117	122	146	168	170	73
155°	122	126	134	144	144	57
165°	126	126	134	136	134	36
175°	129	129	129	129	124	12
180°	126	126	126	126	126	



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CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1542.4	1542.4	1542.4	1542.4	1542.4
2.5°	1552.1	1535.1	1542.4	1537.5	1527.8
5°	1544.8	1527.8	1535.1	1530.2	1527.8
7.5°	1530.2	1515.6	1522.9	1518.1	1515.6
10°	1513.2	1498.6	1505.9	1498.6	1496.2
12.5°	1496.2	1479.2	1486.5	1476.7	1476.7
15°	1469.4	1454.8	1462.1	1454.8	1452.4
17.5°	1440.2	1425.6	1430.5	1423.2	1420.8
20°	1406.2	1391.6	1396.4	1386.7	1381.8
22.5°	1369.7	1357.5	1362.4	1345.3	1342.9
25°	1330.8	1318.6	1321.0	1304.0	1301.6
27.5°	1291.8	1274.8	1279.7	1260.2	1255.3
30°	1245.6	1231.0	1233.4	1214.0	1209.1
32.5°	1194.5	1184.8	1184.8	1165.3	1162.9
35°	1145.9	1136.1	1133.7	1114.2	1109.4
37.5°	1097.2	1085.0	1082.6	1060.7	1060.7
40°	1043.7	1033.9	1029.1	1012.1	1009.6
42.5°	992.6	980.4	975.6	958.5	958.5
45°	939.1	929.3	919.6	907.4	905.0
47.5°	883.1	873.4	868.5	853.9	851.5
50°	827.2	819.9	812.6	800.4	798.0
52.5°	768.8	763.9	759.0	746.9	739.6
55°	715.2	708.0	705.5	690.9	686.1
57.5°	656.9	649.6	647.1	630.1	622.8
60°	593.6	586.3	583.9	569.3	566.8
62.5°	537.7	530.4	525.5	515.8	510.9
65°	479.3	474.4	467.1	457.4	452.5
67.5°	420.9	416.0	408.7	401.4	396.5
70°	362.5	357.6	352.8	343.0	340.6
72.5°	304.1	299.2	294.4	289.5	289.5
75°	248.1	245.7	243.3	236.0	236.0
77.5°	192.2	189.8	187.3	184.9	184.9
80°	141.1	141.1	138.7	136.2	136.2
82.5°	94.9	94.9	94.9	92.4	92.4
85°	53.5	56.0	56.0	53.5	53.5
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	12.2	14.6	17.0	14.6
95°	17.0	19.5	21.9	21.9	21.9
97.5°	26.8	29.2	29.2	29.2	29.2
100°	34.1	38.9	36.5	38.9	36.5
102.5°	41.4	51.1	51.1	46.2	46.2
105°	46.2	63.3	56.0	60.8	56.0
107.5°	51.1	77.9	65.7	68.1	70.6
110°	58.4	87.6	80.3	73.0	75.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.3	107.0	94.9	85.1	82.7
115°	68.1	109.5	111.9	97.3	94.9
117.5°	75.4	109.5	126.5	114.3	109.5
120°	80.3	116.8	138.7	128.9	124.1
122.5°	85.1	121.6	146.0	146.0	141.1
125°	90.0	124.1	153.3	158.1	155.7
127.5°	92.4	116.8	165.4	172.7	170.3
130°	97.3	111.9	163.0	175.2	182.5
132.5°	102.2	114.3	158.1	177.6	182.5
135°	104.6	116.8	153.3	189.8	187.3
137.5°	107.0	119.2	155.7	182.5	194.6
140°	111.9	119.2	158.1	172.7	187.3
142.5°	114.3	121.6	158.1	165.4	175.2
145°	116.8	121.6	146.0	167.9	170.3
147.5°	116.8	124.1	136.2	170.3	170.3
150°	119.2	124.1	136.2	170.3	170.3
152.5°	121.6	126.5	133.8	148.4	167.9
155°	121.6	126.5	133.8	143.5	143.5
157.5°	124.1	126.5	133.8	141.1	141.1
160°	124.1	126.5	133.8	138.7	136.2
162.5°	126.5	126.5	131.4	136.2	133.8
165°	126.5	126.5	133.8	136.2	133.8
167.5°	126.5	128.9	131.4	133.8	131.4
170°	128.9	128.9	131.4	131.4	128.9
172.5°	128.9	128.9	131.4	128.9	126.5
175°	128.9	128.9	128.9	128.9	124.1
177.5°	128.9	126.5	128.9	126.5	121.6
180°	126.5	126.5	126.5	126.5	126.5

(END OF REPORT)