

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: P253391

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253391
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-50L93050-1D-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, 90 CRI LEDS, TUNED TO 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3919.1 lumens
Efficiency: N/A
Efficacy: 76.0 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

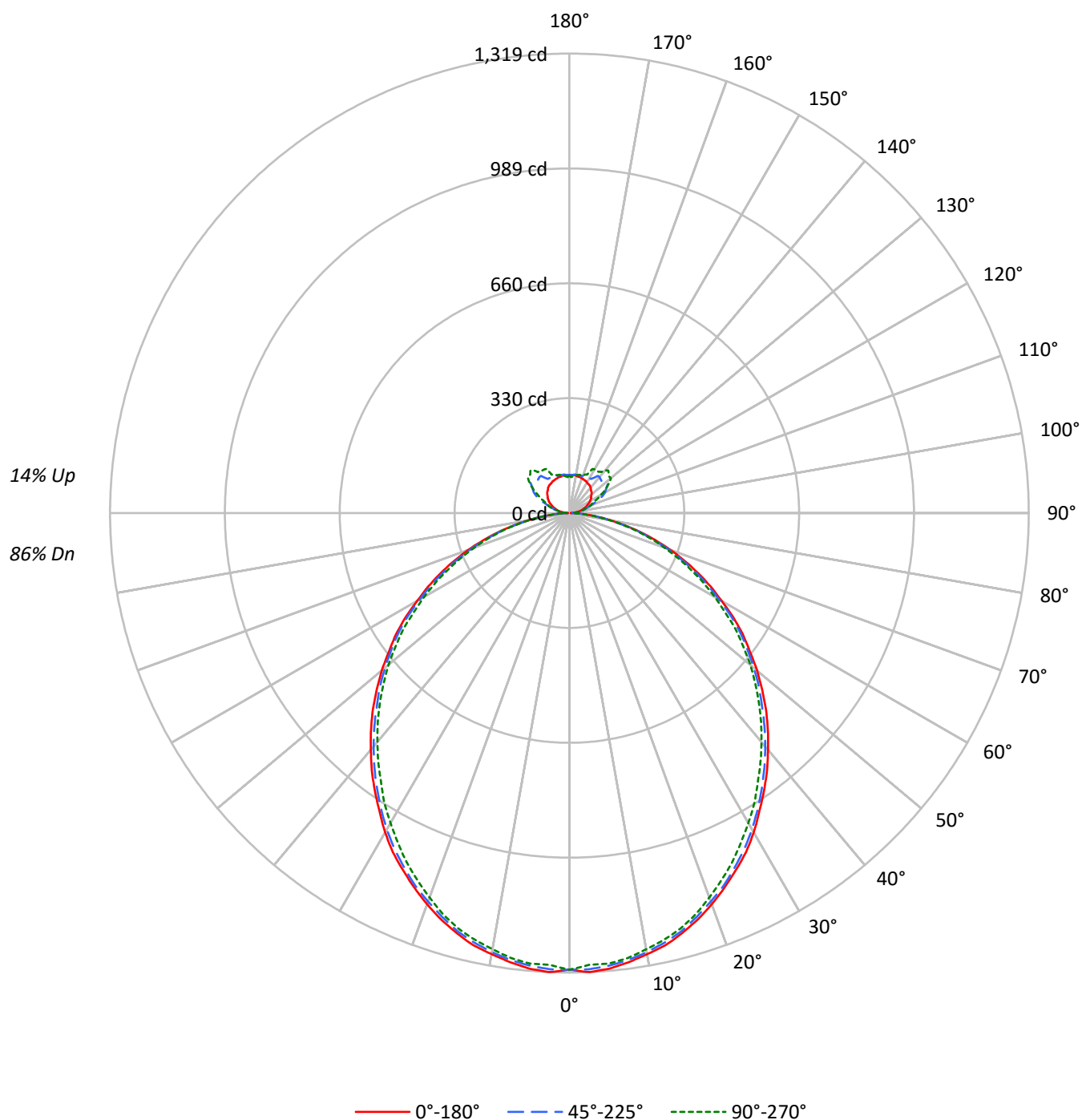
Input Watts (W): 51.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253391

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (3500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253391

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (3500K)

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°	10580	10580	10580
5°	10638	10571	10520
10°	10540	10489	10422
15°	10435	10384	10315
20°	10265	10194	10088
25°	10073	9999	9852
30°	9866	9770	9577
35°	9596	9494	9291
40°	9347	9216	9041
45°	9111	8921	8780
50°	8828	8672	8516
55°	8555	8438	8206
60°	8144	8010	7777
65°	7780	7582	7345
70°	7270	7076	6831
75°	6578	6447	6254
80°	5574	5477	5384
85°	4215	4400	4215



TEST NUMBER: P253391

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (3500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.2
10°-20°	348.8	8.9
20°-30°	514.5	13.1
30°-40°	599.6	15.3
40°-50°	602.9	15.4
50°-60°	530.9	13.5
60°-70°	391.9	10.0
70°-80°	217.1	5.5
80°-90°	56.5	1.4
90°-100°	20.1	0.5
100°-110°	51.8	1.3
110°-120°	84.1	2.1
120°-130°	105.1	2.7
130°-140°	98.7	2.5
140°-150°	77.8	2.0
150°-160°	53.6	1.4
160°-170°	31.6	0.8
170°-180°	10.5	0.3
0°-30°	986.8	25.2
0°-40°	1586.4	40.5
0°-60°	2720.2	69.4
0°-90°	3385.8	86.4
90°-120°	156.0	4.0
90°-150°	437.6	11.2
90°-180°	533.0	13.6
0°-180°	3919.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1311	1311	1311	1311	1311	
5°	1313	1298	1304	1300	1298	124
15°	1249	1236	1242	1236	1234	352
25°	1131	1120	1122	1108	1106	521
35°	974	965	963	947	943	609
45°	798	790	781	771	769	615
55°	608	602	600	587	583	542
65°	407	403	397	389	384	403
75°	211	209	207	200	200	223
85°	46	48	48	46	46	53
90°	4	8	8	8	8	5
95°	14	16	19	19	19	15
105°	39	54	48	52	48	41
115°	58	93	95	83	81	58
125°	76	105	130	134	132	68
135°	89	99	130	161	159	69
145°	99	103	124	143	145	62
155°	103	108	114	122	122	48
165°	108	108	114	116	114	30
175°	110	110	110	110	105	10
180°	108	108	108	108	108	



TEST NUMBER: P253391

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1310.6	1310.6	1310.6	1310.6	1310.6
2.5°	1318.9	1304.4	1310.6	1306.5	1298.2
5°	1312.7	1298.2	1304.4	1300.3	1298.2
7.5°	1300.3	1287.9	1294.1	1290.0	1287.9
10°	1285.8	1273.4	1279.6	1273.4	1271.4
12.5°	1271.4	1256.9	1263.1	1254.8	1254.8
15°	1248.6	1236.2	1242.4	1236.2	1234.2
17.5°	1223.8	1211.4	1215.6	1209.4	1207.3
20°	1194.9	1182.5	1186.6	1178.3	1174.2
22.5°	1163.9	1153.5	1157.7	1143.2	1141.1
25°	1130.8	1120.5	1122.5	1108.1	1106.0
27.5°	1097.7	1083.2	1087.4	1070.8	1066.7
30°	1058.4	1046.0	1048.1	1031.6	1027.4
32.5°	1015.0	1006.8	1006.8	990.2	988.2
35°	973.7	965.4	963.3	946.8	942.7
37.5°	932.3	922.0	919.9	901.3	901.3
40°	886.9	878.6	874.5	860.0	857.9
42.5°	843.4	833.1	829.0	814.5	814.5
45°	798.0	789.7	781.4	771.1	769.0
47.5°	750.4	742.1	738.0	725.6	723.5
50°	702.9	696.7	690.5	680.1	678.1
52.5°	653.3	649.1	645.0	634.7	628.5
55°	607.8	601.6	599.5	587.1	583.0
57.5°	558.2	552.0	549.9	535.4	529.2
60°	504.4	498.2	496.1	483.7	481.7
62.5°	456.9	450.7	446.5	438.3	434.1
65°	407.3	403.1	396.9	388.6	384.5
67.5°	357.6	353.5	347.3	341.1	337.0
70°	308.0	303.9	299.8	291.5	289.4
72.5°	258.4	254.3	250.1	246.0	246.0
75°	210.9	208.8	206.7	200.5	200.5
77.5°	163.3	161.2	159.2	157.1	157.1
80°	119.9	119.9	117.8	115.8	115.8
82.5°	80.6	80.6	80.6	78.6	78.6
85°	45.5	47.5	47.5	45.5	45.5
87.5°	18.6	18.6	18.6	18.6	18.6
90°	4.1	8.3	8.3	8.3	8.3
92.5°	8.3	10.3	12.4	14.5	12.4
95°	14.5	16.5	18.6	18.6	18.6
97.5°	22.7	24.8	24.8	24.8	24.8
100°	28.9	33.1	31.0	33.1	31.0
102.5°	35.1	43.4	43.4	39.3	39.3
105°	39.3	53.7	47.5	51.7	47.5
107.5°	43.4	66.2	55.8	57.9	60.0
110°	49.6	74.4	68.2	62.0	64.1



TEST NUMBER: P253391

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (3500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.7	91.0	80.6	72.4	70.3
115°	57.9	93.0	95.1	82.7	80.6
117.5°	64.1	93.0	107.5	97.2	93.0
120°	68.2	99.2	117.8	109.6	105.4
122.5°	72.4	103.4	124.0	124.0	119.9
125°	76.5	105.4	130.2	134.4	132.3
127.5°	78.6	99.2	140.6	146.8	144.7
130°	82.7	95.1	138.5	148.8	155.0
132.5°	86.8	97.2	134.4	150.9	155.0
135°	88.9	99.2	130.2	161.2	159.2
137.5°	91.0	101.3	132.3	155.0	165.4
140°	95.1	101.3	134.4	146.8	159.2
142.5°	97.2	103.4	134.4	140.6	148.8
145°	99.2	103.4	124.0	142.6	144.7
147.5°	99.2	105.4	115.8	144.7	144.7
150°	101.3	105.4	115.8	144.7	144.7
152.5°	103.4	107.5	113.7	126.1	142.6
155°	103.4	107.5	113.7	122.0	122.0
157.5°	105.4	107.5	113.7	119.9	119.9
160°	105.4	107.5	113.7	117.8	115.8
162.5°	107.5	107.5	111.6	115.8	113.7
165°	107.5	107.5	113.7	115.8	113.7
167.5°	107.5	109.6	111.6	113.7	111.6
170°	109.6	109.6	111.6	111.6	109.6
172.5°	109.6	109.6	111.6	109.6	107.5
175°	109.6	109.6	109.6	109.6	105.4
177.5°	109.6	107.5	109.6	107.5	103.4
180°	107.5	107.5	107.5	107.5	107.5

(END OF REPORT)