

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: P253424

Luminaire Tested: **J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4203.3 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.3
Luminous Opening: Rectangular (W 0.33' x L: 4' x H: 0')
CIE Type: Semi-Direct

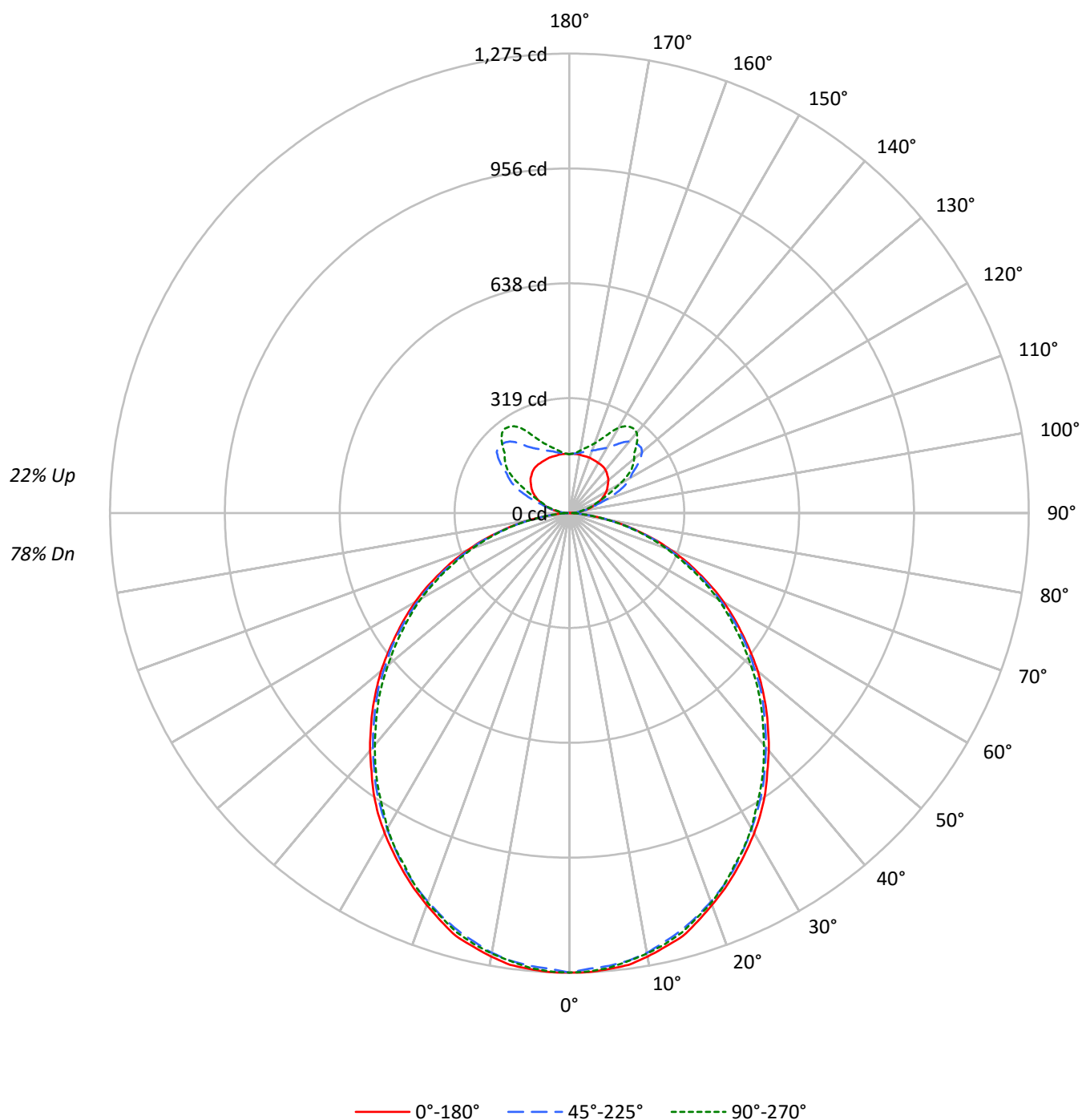
Input Watts (W): 38.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253424

CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P253424

CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	90	90	90	82	82	82	78		
1	104	100	96	92	99	95	92	89	87	84	82	80	78	76	73	71	70	66		
2	95	87	81	75	90	83	78	73	76	72	68	70	66	63	64	61	59	55		
3	87	77	69	63	82	73	66	61	67	62	57	62	57	53	57	53	50	47		
4	79	68	60	53	75	65	58	52	60	54	49	55	50	46	51	47	43	40		
5	73	61	52	46	69	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	29	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	32	27	24	22		
10	51	38	31	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10294	10294	10294
5°	10290	10221	10264
10°	10244	10157	10174
15°	10160	10018	10071
20°	9942	9860	9887
25°	9750	9666	9627
30°	9560	9432	9412
35°	9344	9208	9135
40°	9074	8940	8850
45°	8824	8691	8582
50°	8574	8413	8254
55°	8249	8144	7949
60°	7989	7800	7697
65°	7585	7383	7221
70°	7067	6892	6741
75°	6291	6192	6126
80°	5035	5086	4937
85°	3242	3344	3446



TEST NUMBER: P253424

CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.1	2.9
10°-20°	339.7	8.1
20°-30°	501.1	11.9
30°-40°	585.2	13.9
40°-50°	587.7	14.0
50°-60°	517.3	12.3
60°-70°	384.7	9.2
70°-80°	210.9	5.0
80°-90°	48.0	1.1
90°-100°	24.2	0.6
100°-110°	76.6	1.8
110°-120°	144.4	3.4
120°-130°	181.7	4.3
130°-140°	178.9	4.3
140°-150°	144.2	3.4
150°-160°	92.3	2.2
160°-170°	50.5	1.2
170°-180°	16.0	0.4
0°-30°	960.9	22.9
0°-40°	1546.1	36.8
0°-60°	2651.1	63.1
0°-90°	3294.6	78.4
90°-120°	245.2	5.8
90°-150°	750.0	17.8
90°-180°	909.0	21.6
0°-180°	4203.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1270	1267	1261	1267	1267	121
15°	1216	1208	1199	1209	1205	342
25°	1095	1092	1085	1084	1081	504
35°	948	943	934	931	927	592
45°	773	771	761	753	752	596
55°	586	588	579	570	565	525
65°	397	397	386	382	378	394
75°	202	202	198	195	196	215
85°	35	36	36	38	37	45
90°	1	3	4	5	4	4
95°	22	21	21	23	23	23
105°	64	102	66	66	60	67
115°	102	203	159	122	112	101
125°	130	208	229	212	210	116
135°	149	186	269	272	262	115
145°	159	179	234	281	292	100
155°	161	174	195	223	235	75
165°	164	169	177	186	189	46
175°	165	165	166	167	167	16
180°	164	164	164	164	164	



TEST NUMBER: P253424

CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.1	1275.1	1275.1	1275.1	1275.1
2.5°	1275.1	1273.0	1265.5	1271.9	1273.0
5°	1269.8	1266.6	1261.3	1266.6	1266.6
7.5°	1264.5	1259.2	1252.8	1256.0	1253.9
10°	1249.6	1247.5	1239.0	1243.2	1241.1
12.5°	1232.6	1229.4	1218.8	1227.3	1225.2
15°	1215.6	1208.2	1198.7	1209.3	1205.0
17.5°	1187.0	1184.9	1174.2	1183.8	1177.4
20°	1157.3	1156.2	1147.7	1151.9	1150.9
22.5°	1127.5	1124.3	1119.0	1120.1	1119.0
25°	1094.6	1092.5	1085.1	1084.0	1080.8
27.5°	1060.6	1059.6	1049.0	1049.0	1047.9
30°	1025.6	1022.4	1011.8	1011.8	1009.7
32.5°	988.4	983.1	973.6	971.5	966.1
35°	948.1	942.8	934.3	931.1	926.9
37.5°	902.4	901.4	890.8	887.6	884.4
40°	861.0	857.9	848.3	845.1	839.8
42.5°	816.4	816.4	804.8	797.3	795.2
45°	772.9	770.8	761.2	752.7	751.7
47.5°	727.3	726.2	718.8	706.0	706.0
50°	682.7	680.5	669.9	661.4	657.2
52.5°	633.8	637.0	626.4	616.8	611.5
55°	586.1	588.2	578.6	570.1	564.8
57.5°	540.4	541.5	530.8	524.5	520.2
60°	494.8	493.7	483.1	477.8	476.7
62.5°	447.0	444.9	436.4	431.0	425.7
65°	397.1	397.1	386.5	382.2	378.0
67.5°	350.4	347.2	339.7	335.5	330.2
70°	299.4	298.3	292.0	288.8	285.6
72.5°	253.7	250.6	247.4	243.1	239.9
75°	201.7	201.7	198.5	195.4	196.4
77.5°	157.1	156.1	152.9	150.8	150.8
80°	108.3	110.4	109.4	108.3	106.2
82.5°	70.1	71.1	67.9	67.9	69.0
85°	35.0	36.1	36.1	38.2	37.2
87.5°	11.7	12.7	14.9	15.9	15.9
90°	1.1	3.2	4.2	5.3	4.2
92.5°	11.7	12.7	15.9	15.9	15.9
95°	22.3	21.2	21.2	23.4	23.4
97.5°	32.9	34.0	26.5	27.6	27.6
100°	43.5	53.1	40.3	32.9	32.9
102.5°	54.1	77.5	53.1	46.7	42.5
105°	63.7	101.9	65.8	65.8	59.5
107.5°	73.3	124.2	82.8	69.0	69.0
110°	82.8	153.9	107.2	82.8	78.6



TEST NUMBER: P253424

CATALOG NUMBER: J2-WL-40L83050-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	93.4	182.6	133.8	99.8	93.4
115°	101.9	202.8	159.3	122.1	112.5
117.5°	110.4	211.3	179.4	147.6	134.8
120°	117.8	214.5	194.3	174.1	161.4
122.5°	124.2	213.4	207.0	198.5	187.9
125°	129.5	208.1	229.3	212.3	210.2
127.5°	134.8	200.7	248.4	224.0	223.0
130°	141.2	193.2	263.3	232.5	234.6
132.5°	145.5	187.9	269.7	252.7	243.1
135°	148.6	185.8	268.6	271.8	262.2
137.5°	152.9	183.7	265.4	283.5	279.2
140°	156.1	183.7	259.1	288.8	290.9
142.5°	158.2	181.6	248.4	287.7	295.2
145°	159.3	179.4	233.6	281.4	292.0
147.5°	160.3	178.4	219.8	271.8	285.6
150°	160.3	176.2	209.2	256.9	273.9
152.5°	161.4	175.2	201.7	238.9	254.8
155°	161.4	174.1	195.4	223.0	234.6
157.5°	162.4	172.0	189.0	210.2	218.7
160°	163.5	170.9	184.7	199.6	206.0
162.5°	163.5	169.9	180.5	192.2	196.4
165°	163.5	168.8	177.3	185.8	189.0
167.5°	163.5	167.7	173.1	180.5	182.6
170°	164.6	166.7	169.9	175.2	176.2
172.5°	164.6	165.6	167.7	170.9	170.9
175°	164.6	164.6	165.6	166.7	166.7
177.5°	164.6	164.6	164.6	164.6	164.6
180°	163.5	163.5	163.5	163.5	163.5

(END OF REPORT)