

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: P253375

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253375
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 (4000K)
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 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.4 lumens
Efficiency: N/A
Efficacy: 93.5 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

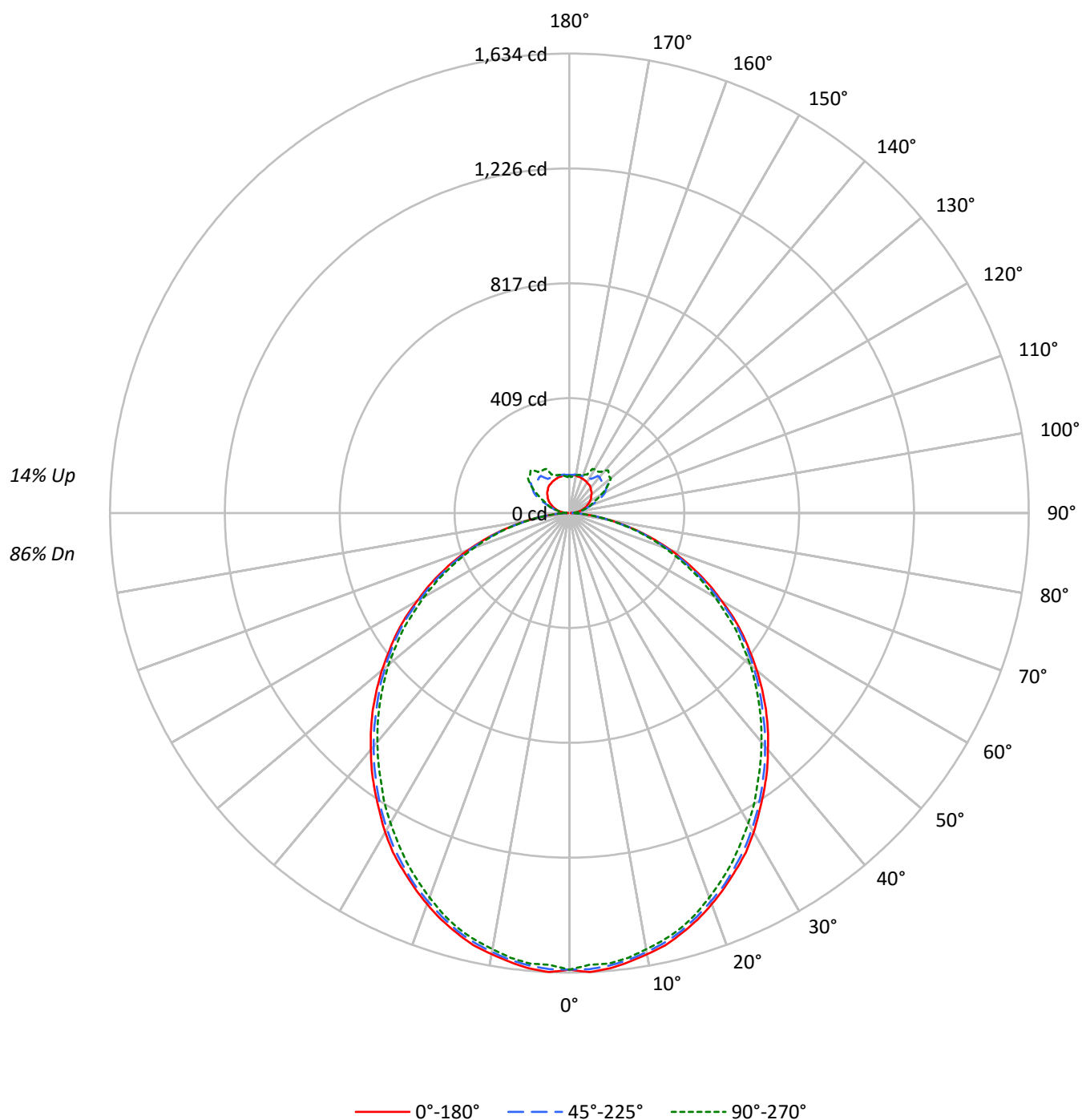
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13106	13106	13106
5°	13177	13093	13032
10°	13056	12993	12909
15°	12926	12862	12776
20°	12715	12627	12495
25°	12477	12385	12202
30°	12221	12102	11863
35°	11885	11759	11507
40°	11577	11414	11199
45°	11284	11050	10875
50°	10934	10741	10549
55°	10595	10452	10163
60°	10088	9922	9633
65°	9635	9391	9098
70°	9005	8764	8462
75°	8147	7988	7748
80°	6904	6788	6667
85°	5215	5456	5215



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.9	3.2
10°-20°	432.1	8.9
20°-30°	637.3	13.1
30°-40°	742.7	15.3
40°-50°	746.8	15.4
50°-60°	657.6	13.5
60°-70°	485.4	10.0
70°-80°	269.0	5.5
80°-90°	70.0	1.4
90°-100°	24.9	0.5
100°-110°	64.2	1.3
110°-120°	104.2	2.1
120°-130°	130.1	2.7
130°-140°	122.3	2.5
140°-150°	96.4	2.0
150°-160°	66.4	1.4
160°-170°	39.2	0.8
170°-180°	12.9	0.3
0°-30°	1222.2	25.2
0°-40°	1965.0	40.5
0°-60°	3369.4	69.4
0°-90°	4193.8	86.4
90°-120°	193.3	4.0
90°-150°	542.1	11.2
90°-180°	661.0	13.6
0°-180°	4854.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1623	1623	1623	1623	1623	
5°	1626	1608	1616	1611	1608	154
15°	1547	1531	1539	1531	1529	436
25°	1401	1388	1390	1372	1370	645
35°	1206	1196	1193	1173	1168	755
45°	988	978	968	955	952	762
55°	753	745	743	727	722	671
65°	504	499	492	481	476	499
75°	261	259	256	248	248	276
85°	56	59	59	56	56	66
90°	5	10	10	10	10	6
95°	18	20	23	23	23	19
105°	49	67	59	64	59	51
115°	72	115	118	102	100	72
125°	95	131	161	166	164	84
135°	110	123	161	200	197	85
145°	123	128	154	177	179	77
155°	128	133	141	151	151	59
165°	133	133	141	143	141	38
175°	136	136	136	136	131	13
180°	133	133	133	133	133	



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CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1623.4	1623.4	1623.4	1623.4	1623.4
2.5°	1633.7	1615.7	1623.4	1618.3	1608.1
5°	1626.0	1608.1	1615.7	1610.6	1608.1
7.5°	1610.6	1595.3	1602.9	1597.8	1595.3
10°	1592.7	1577.3	1585.0	1577.3	1574.8
12.5°	1574.8	1556.8	1564.5	1554.3	1554.3
15°	1546.6	1531.2	1538.9	1531.2	1528.7
17.5°	1515.9	1500.5	1505.6	1498.0	1495.4
20°	1480.0	1464.7	1469.8	1459.5	1454.4
22.5°	1441.6	1428.8	1433.9	1416.0	1413.5
25°	1400.7	1387.8	1390.4	1372.5	1369.9
27.5°	1359.7	1341.8	1346.9	1326.4	1321.3
30°	1311.0	1295.7	1298.2	1277.7	1272.6
32.5°	1257.3	1247.0	1247.0	1226.5	1224.0
35°	1206.0	1195.8	1193.2	1172.8	1167.6
37.5°	1154.8	1142.0	1139.5	1116.4	1116.4
40°	1098.5	1088.3	1083.1	1065.2	1062.7
42.5°	1044.7	1031.9	1026.8	1008.9	1008.9
45°	988.4	978.2	967.9	955.1	952.5
47.5°	929.5	919.3	914.1	898.8	896.2
50°	870.6	862.9	855.2	842.4	839.9
52.5°	809.2	804.0	798.9	786.1	778.4
55°	752.8	745.1	742.6	727.2	722.1
57.5°	691.4	683.7	681.1	663.2	655.5
60°	624.8	617.1	614.5	599.2	596.6
62.5°	565.9	558.2	553.1	542.8	537.7
65°	504.4	499.3	491.6	481.4	476.3
67.5°	443.0	437.9	430.2	422.5	417.4
70°	381.5	376.4	371.3	361.0	358.5
72.5°	320.1	315.0	309.8	304.7	304.7
75°	261.2	258.6	256.1	248.4	248.4
77.5°	202.3	199.7	197.2	194.6	194.6
80°	148.5	148.5	146.0	143.4	143.4
82.5°	99.9	99.9	99.9	97.3	97.3
85°	56.3	58.9	58.9	56.3	56.3
87.5°	23.0	23.0	23.0	23.0	23.0
90°	5.1	10.2	10.2	10.2	10.2
92.5°	10.2	12.8	15.4	17.9	15.4
95°	17.9	20.5	23.0	23.0	23.0
97.5°	28.2	30.7	30.7	30.7	30.7
100°	35.8	41.0	38.4	41.0	38.4
102.5°	43.5	53.8	53.8	48.7	48.7
105°	48.7	66.6	58.9	64.0	58.9
107.5°	53.8	81.9	69.1	71.7	74.3
110°	61.5	92.2	84.5	76.8	79.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	66.6	112.7	99.9	89.6	87.1
115°	71.7	115.2	117.8	102.4	99.9
117.5°	79.4	115.2	133.2	120.3	115.2
120°	84.5	122.9	146.0	135.7	130.6
122.5°	89.6	128.0	153.6	153.6	148.5
125°	94.7	130.6	161.3	166.4	163.9
127.5°	97.3	122.9	174.1	181.8	179.2
130°	102.4	117.8	171.6	184.4	192.0
132.5°	107.5	120.3	166.4	186.9	192.0
135°	110.1	122.9	161.3	199.7	197.2
137.5°	112.7	125.5	163.9	192.0	204.8
140°	117.8	125.5	166.4	181.8	197.2
142.5°	120.3	128.0	166.4	174.1	184.4
145°	122.9	128.0	153.6	176.7	179.2
147.5°	122.9	130.6	143.4	179.2	179.2
150°	125.5	130.6	143.4	179.2	179.2
152.5°	128.0	133.2	140.8	156.2	176.7
155°	128.0	133.2	140.8	151.1	151.1
157.5°	130.6	133.2	140.8	148.5	148.5
160°	130.6	133.2	140.8	146.0	143.4
162.5°	133.2	133.2	138.3	143.4	140.8
165°	133.2	133.2	140.8	143.4	140.8
167.5°	133.2	135.7	138.3	140.8	138.3
170°	135.7	135.7	138.3	138.3	135.7
172.5°	135.7	135.7	138.3	135.7	133.2
175°	135.7	135.7	135.7	135.7	130.6
177.5°	135.7	133.2	135.7	133.2	128.0
180°	133.2	133.2	133.2	133.2	133.2

(END OF REPORT)