

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: P274948

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274948
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 (5000K)
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 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4750.5 lumens
Efficiency: N/A
Efficacy: 91.5 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

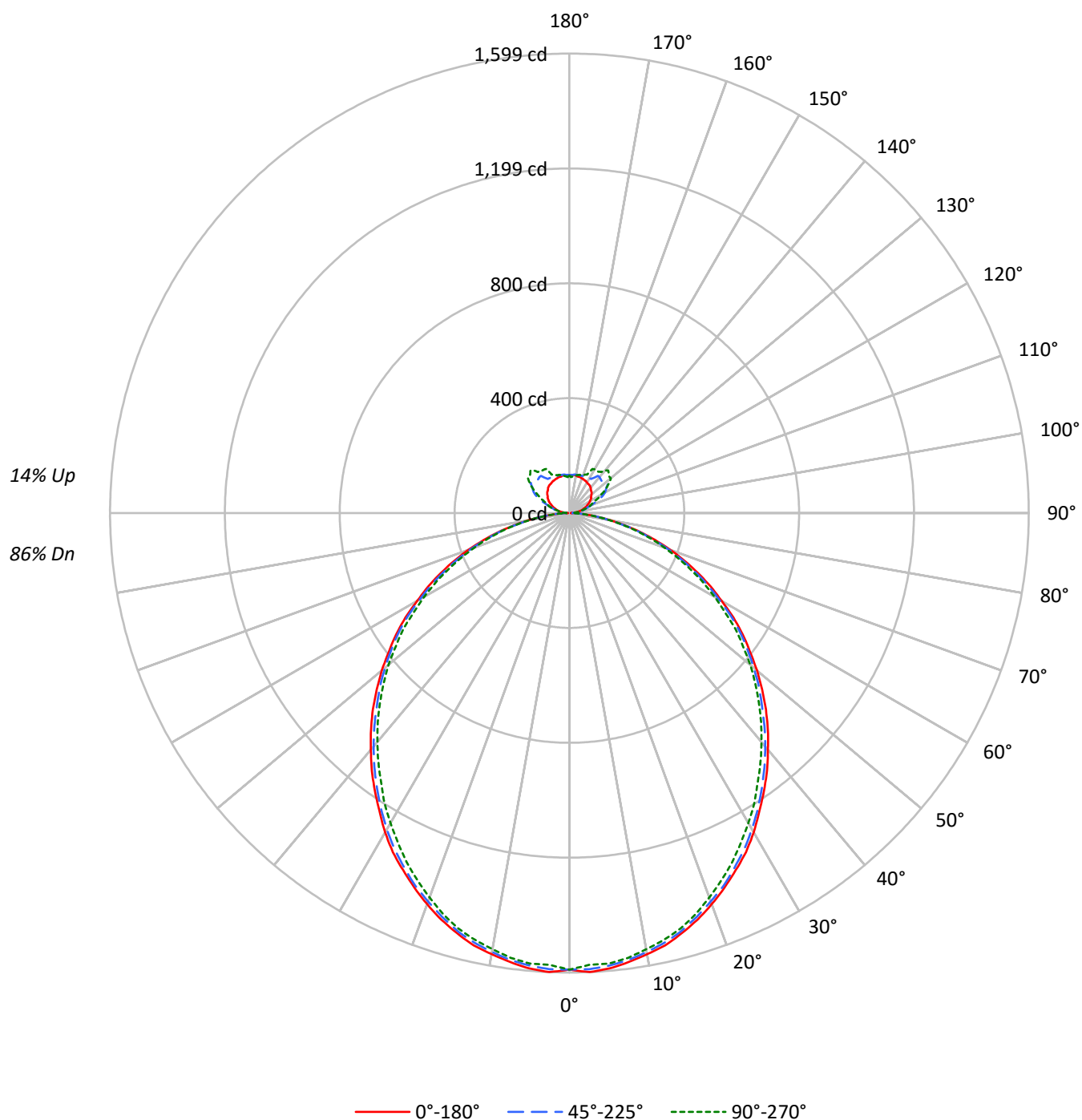
Input Watts (W): 51.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10
RCR																	
0	116	116	116	116	112	112	112	112	104	104	104	96	96	96	90	90	90
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12825	12825	12825
5°	12895	12814	12752
10°	12777	12715	12633
15°	12649	12587	12503
20°	12443	12357	12228
25°	12210	12120	11941
30°	11960	11842	11609
35°	11631	11508	11261
40°	11329	11171	10959
45°	11042	10814	10643
50°	10700	10511	10322
55°	10369	10228	9945
60°	9872	9710	9428
65°	9429	9190	8904
70°	8814	8575	8280
75°	7973	7817	7583
80°	6755	6639	6523
85°	5104	5335	5104



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.2
10°-20°	422.8	8.9
20°-30°	623.6	13.1
30°-40°	726.8	15.3
40°-50°	730.8	15.4
50°-60°	643.6	13.5
60°-70°	475.1	10.0
70°-80°	263.2	5.5
80°-90°	68.5	1.4
90°-100°	24.4	0.5
100°-110°	62.8	1.3
110°-120°	102.0	2.1
120°-130°	127.4	2.7
130°-140°	119.7	2.5
140°-150°	94.3	2.0
150°-160°	65.0	1.4
160°-170°	38.3	0.8
170°-180°	12.7	0.3
0°-30°	1196.1	25.2
0°-40°	1922.9	40.5
0°-60°	3297.3	69.4
0°-90°	4104.1	86.4
90°-120°	189.1	4.0
90°-150°	530.5	11.2
90°-180°	646.0	13.6
0°-180°	4750.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1591	1574	1581	1576	1574	151
15°	1514	1498	1506	1498	1496	427
25°	1371	1358	1361	1343	1341	632
35°	1180	1170	1168	1148	1143	739
45°	967	957	947	935	932	745
55°	737	729	727	712	707	657
65°	494	489	481	471	466	488
75°	256	253	251	243	243	271
85°	55	58	58	55	55	64
90°	5	10	10	10	10	6
95°	18	20	23	23	23	18
105°	48	65	58	63	58	50
115°	70	113	115	100	98	70
125°	93	128	158	163	160	82
135°	108	120	158	196	193	83
145°	120	125	150	173	175	75
155°	125	130	138	148	148	58
165°	130	130	138	140	138	37
175°	133	133	133	133	128	13
180°	130	130	130	130	130	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1588.7	1588.7	1588.7	1588.7	1588.7
2.5°	1598.7	1581.2	1588.7	1583.7	1573.6
5°	1591.2	1573.6	1581.2	1576.1	1573.6
7.5°	1576.1	1561.1	1568.6	1563.6	1561.1
10°	1558.6	1543.6	1551.1	1543.6	1541.1
12.5°	1541.1	1523.5	1531.0	1521.0	1521.0
15°	1513.5	1498.5	1506.0	1498.5	1496.0
17.5°	1483.4	1468.4	1473.4	1465.9	1463.4
20°	1448.4	1433.3	1438.3	1428.3	1423.3
22.5°	1410.8	1398.2	1403.2	1385.7	1383.2
25°	1370.7	1358.1	1360.6	1343.1	1340.6
27.5°	1330.6	1313.0	1318.1	1298.0	1293.0
30°	1283.0	1267.9	1270.4	1250.4	1245.4
32.5°	1230.3	1220.3	1220.3	1200.3	1197.8
35°	1180.2	1170.2	1167.7	1147.7	1142.6
37.5°	1130.1	1117.6	1115.1	1092.5	1092.5
40°	1075.0	1065.0	1060.0	1042.4	1039.9
42.5°	1022.4	1009.8	1004.8	987.3	987.3
45°	967.2	957.2	947.2	934.7	932.2
47.5°	909.6	899.6	894.6	879.5	877.0
50°	852.0	844.5	836.9	824.4	821.9
52.5°	791.8	786.8	781.8	769.3	761.8
55°	736.7	729.2	726.7	711.6	706.6
57.5°	676.6	669.0	666.5	649.0	641.5
60°	611.4	603.9	601.4	586.4	583.9
62.5°	553.8	546.3	541.3	531.2	526.2
65°	493.6	488.6	481.1	471.1	466.1
67.5°	433.5	428.5	421.0	413.5	408.4
70°	373.4	368.4	363.3	353.3	350.8
72.5°	313.2	308.2	303.2	298.2	298.2
75°	255.6	253.1	250.6	243.1	243.1
77.5°	198.0	195.5	192.9	190.4	190.4
80°	145.3	145.3	142.8	140.3	140.3
82.5°	97.7	97.7	97.7	95.2	95.2
85°	55.1	57.6	57.6	55.1	55.1
87.5°	22.6	22.6	22.6	22.6	22.6
90°	5.0	10.0	10.0	10.0	10.0
92.5°	10.0	12.5	15.0	17.5	15.0
95°	17.5	20.0	22.6	22.6	22.6
97.5°	27.6	30.1	30.1	30.1	30.1
100°	35.1	40.1	37.6	40.1	37.6
102.5°	42.6	52.6	52.6	47.6	47.6
105°	47.6	65.2	57.6	62.6	57.6
107.5°	52.6	80.2	67.7	70.2	72.7
110°	60.1	90.2	82.7	75.2	77.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	65.2	110.3	97.7	87.7	85.2
115°	70.2	112.8	115.3	100.2	97.7
117.5°	77.7	112.8	130.3	117.8	112.8
120°	82.7	120.3	142.8	132.8	127.8
122.5°	87.7	125.3	150.3	150.3	145.3
125°	92.7	127.8	157.9	162.9	160.4
127.5°	95.2	120.3	170.4	177.9	175.4
130°	100.2	115.3	167.9	180.4	187.9
132.5°	105.2	117.8	162.9	182.9	187.9
135°	107.7	120.3	157.9	195.5	192.9
137.5°	110.3	122.8	160.4	187.9	200.5
140°	115.3	122.8	162.9	177.9	192.9
142.5°	117.8	125.3	162.9	170.4	180.4
145°	120.3	125.3	150.3	172.9	175.4
147.5°	120.3	127.8	140.3	175.4	175.4
150°	122.8	127.8	140.3	175.4	175.4
152.5°	125.3	130.3	137.8	152.9	172.9
155°	125.3	130.3	137.8	147.8	147.8
157.5°	127.8	130.3	137.8	145.3	145.3
160°	127.8	130.3	137.8	142.8	140.3
162.5°	130.3	130.3	135.3	140.3	137.8
165°	130.3	130.3	137.8	140.3	137.8
167.5°	130.3	132.8	135.3	137.8	135.3
170°	132.8	132.8	135.3	135.3	132.8
172.5°	132.8	132.8	135.3	132.8	130.3
175°	132.8	132.8	132.8	132.8	127.8
177.5°	132.8	130.3	132.8	130.3	125.3
180°	130.3	130.3	130.3	130.3	130.3

(END OF REPORT)