

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: P274955

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274955
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-13)
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-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5089.5 lumens
Efficiency: N/A
Efficacy: 98.4 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

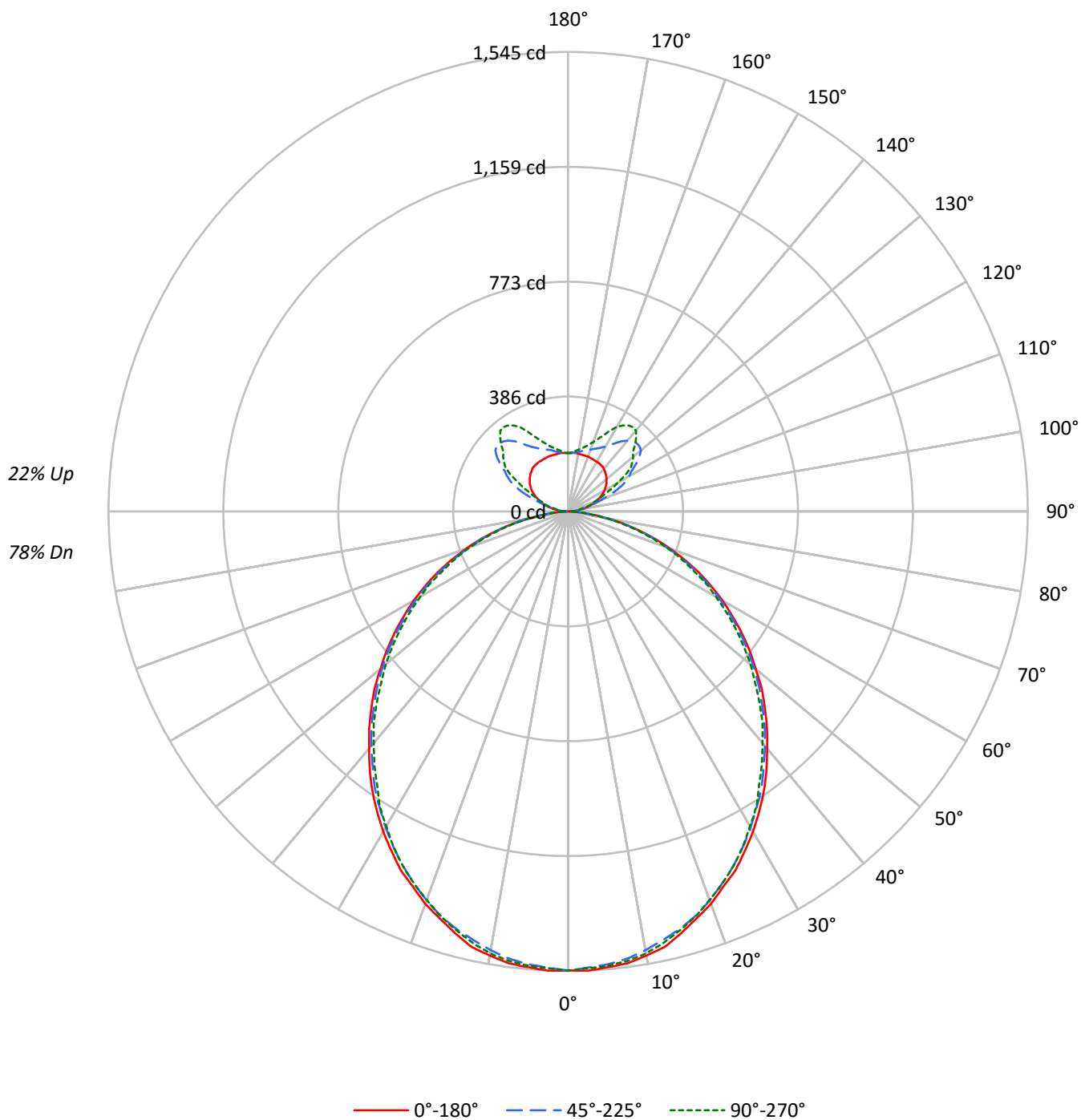
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					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	68	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°	12459	12459	12459
5°	12465	12383	12424
10°	12427	12277	12368
15°	12270	12143	12176
20°	12063	11958	11941
25°	11856	11711	11711
30°	11583	11431	11393
35°	11305	11175	11034
40°	10964	10846	10707
45°	10671	10532	10381
50°	10336	10221	10042
55°	10024	9866	9667
60°	9678	9515	9252
65°	9238	9045	8753
70°	8561	8370	8226
75°	7639	7542	7321
80°	6234	6188	5904
85°	3761	4048	4140



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.5	2.9
10°-20°	411.3	8.1
20°-30°	607.3	11.9
30°-40°	709.1	13.9
40°-50°	712.4	14.0
50°-60°	627.2	12.3
60°-70°	466.9	9.2
70°-80°	255.7	5.0
80°-90°	58.3	1.1
90°-100°	29.2	0.6
100°-110°	92.3	1.8
110°-120°	174.4	3.4
120°-130°	219.9	4.3
130°-140°	216.0	4.2
140°-150°	173.6	3.4
150°-160°	110.8	2.2
160°-170°	60.5	1.2
170°-180°	19.2	0.4
0°-30°	1164.2	22.9
0°-40°	1873.3	36.8
0°-60°	3212.9	63.1
0°-90°	3993.7	78.5
90°-120°	295.9	5.8
90°-150°	905.4	17.8
90°-180°	1096.0	21.5
0°-180°	5089.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1543	1543	1543	1543	1543	
5°	1538	1537	1528	1534	1533	146
15°	1468	1462	1453	1460	1457	414
25°	1331	1322	1315	1316	1315	612
35°	1147	1143	1134	1125	1120	717
45°	935	933	922	914	909	722
55°	712	713	701	691	687	637
65°	484	480	474	462	458	477
75°	245	245	242	239	235	261
85°	41	46	44	45	45	54
90°	2	4	5	6	6	4
95°	27	25	25	27	28	27
105°	77	123	78	78	72	81
115°	122	245	193	148	133	120
125°	156	249	278	257	257	139
135°	179	224	325	328	319	138
145°	191	215	281	340	353	120
155°	194	208	234	267	282	90
165°	196	202	213	222	226	56
175°	197	198	198	200	200	19
180°	196	196	196	196	196	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1543.3	1543.3	1543.3	1543.3	1543.3
2.5°	1545.3	1544.3	1535.2	1542.3	1537.2
5°	1538.2	1537.2	1528.1	1534.2	1533.1
7.5°	1532.1	1524.0	1516.9	1522.0	1524.0
10°	1515.9	1505.7	1497.6	1508.8	1508.8
12.5°	1499.6	1486.4	1475.2	1489.5	1485.4
15°	1468.1	1462.0	1452.9	1460.0	1456.9
17.5°	1434.6	1434.6	1425.4	1429.5	1426.5
20°	1404.1	1402.1	1391.9	1396.0	1389.9
22.5°	1364.5	1364.5	1353.3	1356.4	1354.3
25°	1331.0	1321.8	1314.7	1315.7	1314.7
27.5°	1286.3	1281.2	1272.0	1274.1	1271.0
30°	1242.6	1235.5	1226.3	1229.4	1222.2
32.5°	1195.8	1190.8	1179.6	1178.6	1177.5
35°	1147.1	1143.0	1133.9	1124.7	1119.6
37.5°	1095.2	1094.2	1079.0	1074.9	1069.8
40°	1040.4	1041.4	1029.2	1022.1	1016.0
42.5°	989.6	985.5	977.4	968.2	967.2
45°	934.7	932.7	922.5	914.4	909.3
47.5°	882.9	879.9	869.7	860.6	852.4
50°	823.0	825.0	813.8	803.7	799.6
52.5°	769.1	771.1	759.0	747.8	743.7
55°	712.2	713.2	701.0	690.9	686.8
57.5°	654.3	655.3	645.2	636.0	630.9
60°	599.4	596.4	589.3	578.1	573.0
62.5°	540.5	540.5	530.4	521.2	521.2
65°	483.6	479.6	473.5	462.3	458.2
67.5°	423.7	420.6	413.5	405.4	406.4
70°	362.7	360.7	354.6	349.5	348.5
72.5°	306.8	302.8	298.7	293.6	291.6
75°	244.9	244.9	241.8	238.8	234.7
77.5°	191.0	189.0	186.9	183.9	181.9
80°	134.1	134.1	133.1	130.0	127.0
82.5°	84.3	86.4	84.3	83.3	83.3
85°	40.6	45.7	43.7	44.7	44.7
87.5°	13.2	15.2	18.3	19.3	19.3
90°	2.0	4.1	5.1	6.1	6.1
92.5°	14.2	15.2	19.3	19.3	20.3
95°	27.4	25.4	25.4	27.4	28.4
97.5°	39.6	40.6	32.5	32.5	33.5
100°	51.8	64.0	49.8	40.6	39.6
102.5°	64.0	93.5	64.0	55.9	50.8
105°	77.2	122.9	78.2	78.2	72.1
107.5°	88.4	150.4	100.6	82.3	83.3
110°	100.6	185.9	128.0	100.6	94.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	111.8	220.5	161.5	120.9	112.8
115°	121.9	244.9	193.0	148.3	133.1
117.5°	131.1	256.0	217.4	178.8	161.5
120°	141.2	260.1	236.7	210.3	193.0
122.5°	148.3	257.0	252.0	240.8	227.6
125°	156.5	248.9	278.4	257.0	257.0
127.5°	162.6	239.8	301.8	273.3	271.3
130°	168.7	231.6	319.0	283.5	285.5
132.5°	173.7	226.6	325.1	306.8	293.6
135°	178.8	223.5	325.1	328.2	319.0
137.5°	182.9	221.5	320.0	343.4	338.3
140°	186.9	219.5	310.9	348.5	354.6
142.5°	190.0	217.4	297.7	347.5	357.6
145°	191.0	215.4	281.4	340.4	352.6
147.5°	192.0	213.4	265.2	328.2	342.4
150°	193.0	212.3	252.0	308.9	328.2
152.5°	193.0	210.3	241.8	285.5	306.8
155°	194.1	208.3	233.7	267.2	282.4
157.5°	195.1	206.2	227.6	252.0	264.2
160°	196.1	204.2	221.5	240.8	248.9
162.5°	196.1	203.2	217.4	230.6	235.7
165°	196.1	202.2	213.4	222.5	225.6
167.5°	196.1	201.2	207.3	215.4	218.4
170°	197.1	200.2	203.2	209.3	212.3
172.5°	198.1	199.1	200.2	204.2	206.2
175°	197.1	198.1	198.1	200.2	200.2
177.5°	197.1	197.1	197.1	198.1	197.1
180°	196.1	196.1	196.1	196.1	196.1

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