

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: P274953

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-W-4 (3500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274953
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 (3500K)
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 3500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4894.2 lumens
Efficiency: N/A
Efficacy: 96.0 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

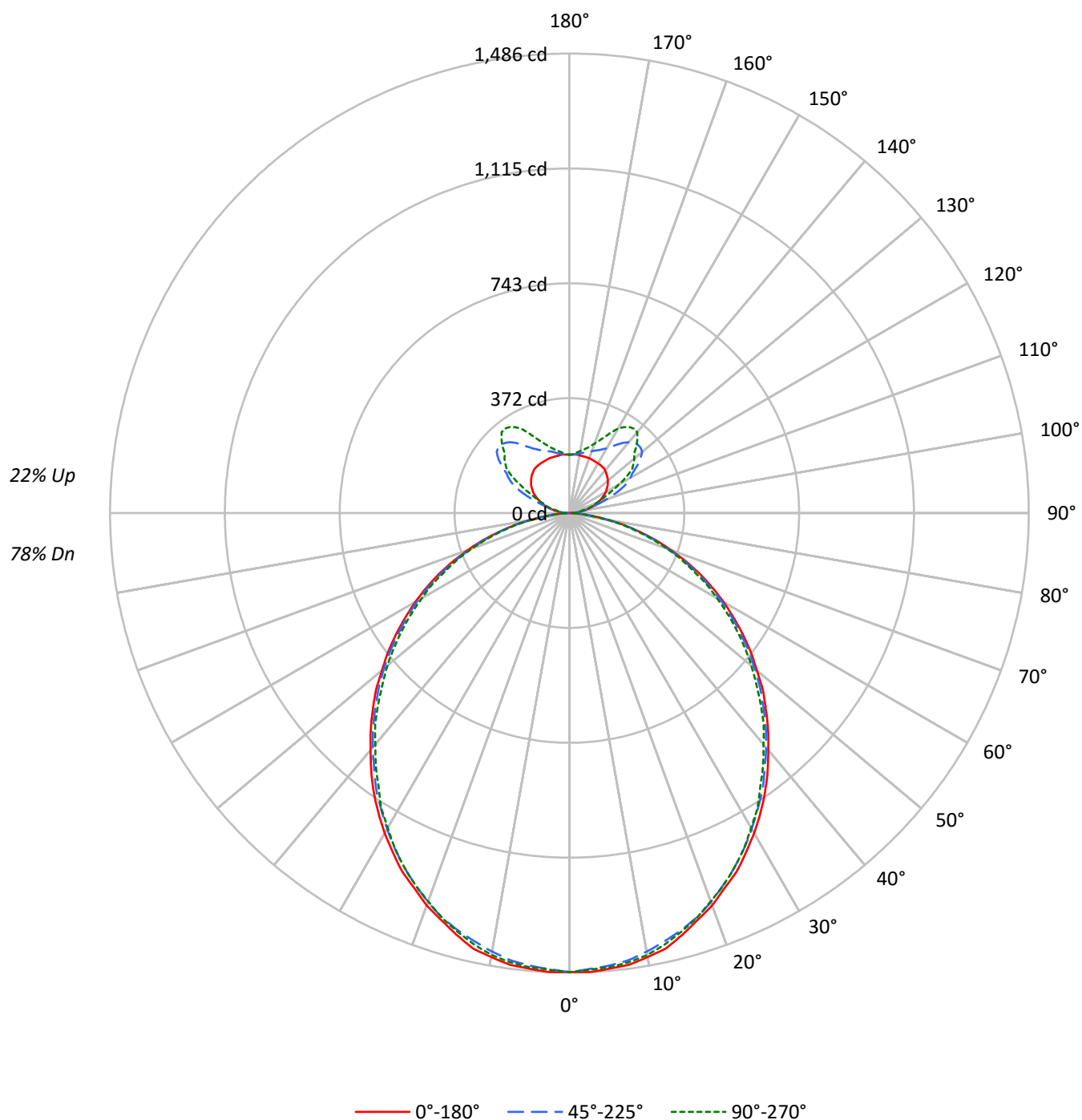
Input Watts (W): 51
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11981	11981	11981
5°	11987	11908	11947
10°	11949	11805	11893
15°	11799	11677	11709
20°	11600	11499	11482
25°	11401	11261	11261
30°	11139	10992	10956
35°	10870	10745	10611
40°	10543	10430	10296
45°	10261	10128	9983
50°	9939	9829	9657
55°	9640	9488	9296
60°	9306	9150	8896
65°	8884	8697	8416
70°	8233	8049	7910
75°	7346	7252	7040
80°	5997	5951	5676
85°	3622	3890	3983



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	2.9
10°-20°	395.5	8.1
20°-30°	584.0	11.9
30°-40°	681.9	13.9
40°-50°	685.1	14.0
50°-60°	603.1	12.3
60°-70°	448.9	9.2
70°-80°	245.9	5.0
80°-90°	56.1	1.1
90°-100°	28.1	0.6
100°-110°	88.7	1.8
110°-120°	167.7	3.4
120°-130°	211.4	4.3
130°-140°	207.8	4.2
140°-150°	166.9	3.4
150°-160°	106.5	2.2
160°-170°	58.2	1.2
170°-180°	18.4	0.4
0°-30°	1119.5	22.9
0°-40°	1801.4	36.8
0°-60°	3089.6	63.1
0°-90°	3840.4	78.5
90°-120°	284.6	5.8
90°-150°	870.7	17.8
90°-180°	1054.0	21.5
0°-180°	4894.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1479	1478	1469	1475	1474	141
15°	1412	1406	1397	1404	1401	398
25°	1280	1271	1264	1265	1264	588
35°	1103	1099	1090	1082	1077	689
45°	899	897	887	879	874	694
55°	685	686	674	664	660	612
65°	465	461	455	444	441	459
75°	236	236	232	230	226	251
85°	39	44	42	43	43	52
90°	2	4	5	6	6	4
95°	26	24	24	26	27	26
105°	74	118	75	75	69	78
115°	117	236	186	143	128	116
125°	150	239	268	247	247	134
135°	172	215	313	316	307	133
145°	184	207	271	327	339	115
155°	187	200	225	257	272	86
165°	189	194	205	214	217	53
175°	190	190	190	192	192	18
180°	189	189	189	189	189	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1484.1	1484.1	1484.1	1484.1	1484.1
2.5°	1486.0	1485.0	1476.2	1483.1	1478.2
5°	1479.2	1478.2	1469.4	1475.3	1474.3
7.5°	1473.3	1465.5	1458.7	1463.5	1465.5
10°	1457.7	1447.9	1440.1	1450.8	1450.8
12.5°	1442.1	1429.4	1418.6	1432.3	1428.4
15°	1411.8	1405.9	1397.1	1403.9	1401.0
17.5°	1379.5	1379.5	1370.7	1374.6	1371.7
20°	1350.2	1348.3	1338.5	1342.4	1336.5
22.5°	1312.1	1312.1	1301.4	1304.3	1302.3
25°	1279.9	1271.1	1264.2	1265.2	1264.2
27.5°	1236.9	1232.0	1223.2	1225.2	1222.2
30°	1194.9	1188.0	1179.2	1182.2	1175.3
32.5°	1149.9	1145.0	1134.3	1133.3	1132.3
35°	1103.0	1099.1	1090.3	1081.5	1076.7
37.5°	1053.2	1052.2	1037.6	1033.7	1028.8
40°	1000.4	1001.4	989.7	982.9	977.0
42.5°	951.6	947.7	939.9	931.1	930.1
45°	898.8	896.9	887.1	879.3	874.4
47.5°	849.0	846.1	836.3	827.5	819.7
50°	791.4	793.3	782.6	772.8	768.9
52.5°	739.6	741.5	729.8	719.1	715.2
55°	684.9	685.9	674.1	664.4	660.5
57.5°	629.2	630.2	620.4	611.6	606.7
60°	576.4	573.5	566.7	555.9	551.0
62.5°	519.8	519.8	510.0	501.2	501.2
65°	465.1	461.1	455.3	444.5	440.6
67.5°	407.4	404.5	397.6	389.8	390.8
70°	348.8	346.8	341.0	336.1	335.1
72.5°	295.1	291.1	287.2	282.4	280.4
75°	235.5	235.5	232.5	229.6	225.7
77.5°	183.7	181.7	179.8	176.8	174.9
80°	129.0	129.0	128.0	125.1	122.1
82.5°	81.1	83.0	81.1	80.1	80.1
85°	39.1	44.0	42.0	43.0	43.0
87.5°	12.7	14.7	17.6	18.6	18.6
90°	2.0	3.9	4.9	5.9	5.9
92.5°	13.7	14.7	18.6	18.6	19.5
95°	26.4	24.4	24.4	26.4	27.4
97.5°	38.1	39.1	31.3	31.3	32.2
100°	49.8	61.6	47.9	39.1	38.1
102.5°	61.6	89.9	61.6	53.7	48.8
105°	74.3	118.2	75.2	75.2	69.4
107.5°	85.0	144.6	96.7	79.1	80.1
110°	96.7	178.8	123.1	96.7	90.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.5	212.0	155.3	116.3	108.4
115°	117.2	235.5	185.6	142.6	128.0
117.5°	126.0	246.2	209.1	172.0	155.3
120°	135.8	250.1	227.6	202.2	185.6
122.5°	142.6	247.2	242.3	231.5	218.8
125°	150.5	239.4	267.7	247.2	247.2
127.5°	156.3	230.6	290.2	262.8	260.9
130°	162.2	222.8	306.8	272.6	274.5
132.5°	167.1	217.9	312.6	295.1	282.4
135°	172.0	214.9	312.6	315.6	306.8
137.5°	175.9	213.0	307.8	330.2	325.3
140°	179.8	211.0	299.0	335.1	341.0
142.5°	182.7	209.1	286.3	334.1	343.9
145°	183.7	207.1	270.6	327.3	339.0
147.5°	184.7	205.2	255.0	315.6	329.2
150°	185.6	204.2	242.3	297.0	315.6
152.5°	185.6	202.2	232.5	274.5	295.1
155°	186.6	200.3	224.7	257.0	271.6
157.5°	187.6	198.3	218.8	242.3	254.0
160°	188.6	196.4	213.0	231.5	239.4
162.5°	188.6	195.4	209.1	221.8	226.7
165°	188.6	194.4	205.2	214.0	216.9
167.5°	188.6	193.4	199.3	207.1	210.1
170°	189.5	192.5	195.4	201.3	204.2
172.5°	190.5	191.5	192.5	196.4	198.3
175°	189.5	190.5	190.5	192.5	192.5
177.5°	189.5	189.5	189.5	190.5	189.5
180°	188.6	188.6	188.6	188.6	188.6

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