

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: P274963

Luminaire Tested: **J2-WL-50L92765-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274963
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-50L92765-1D-UNV-W2A-DLED-W-4 (4500K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
2700K-6500K CCT VividTune LIGHT ENGINE.
Light Source: (168) 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4178.6 lumens
Efficiency: N/A
Efficacy: 80.8 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

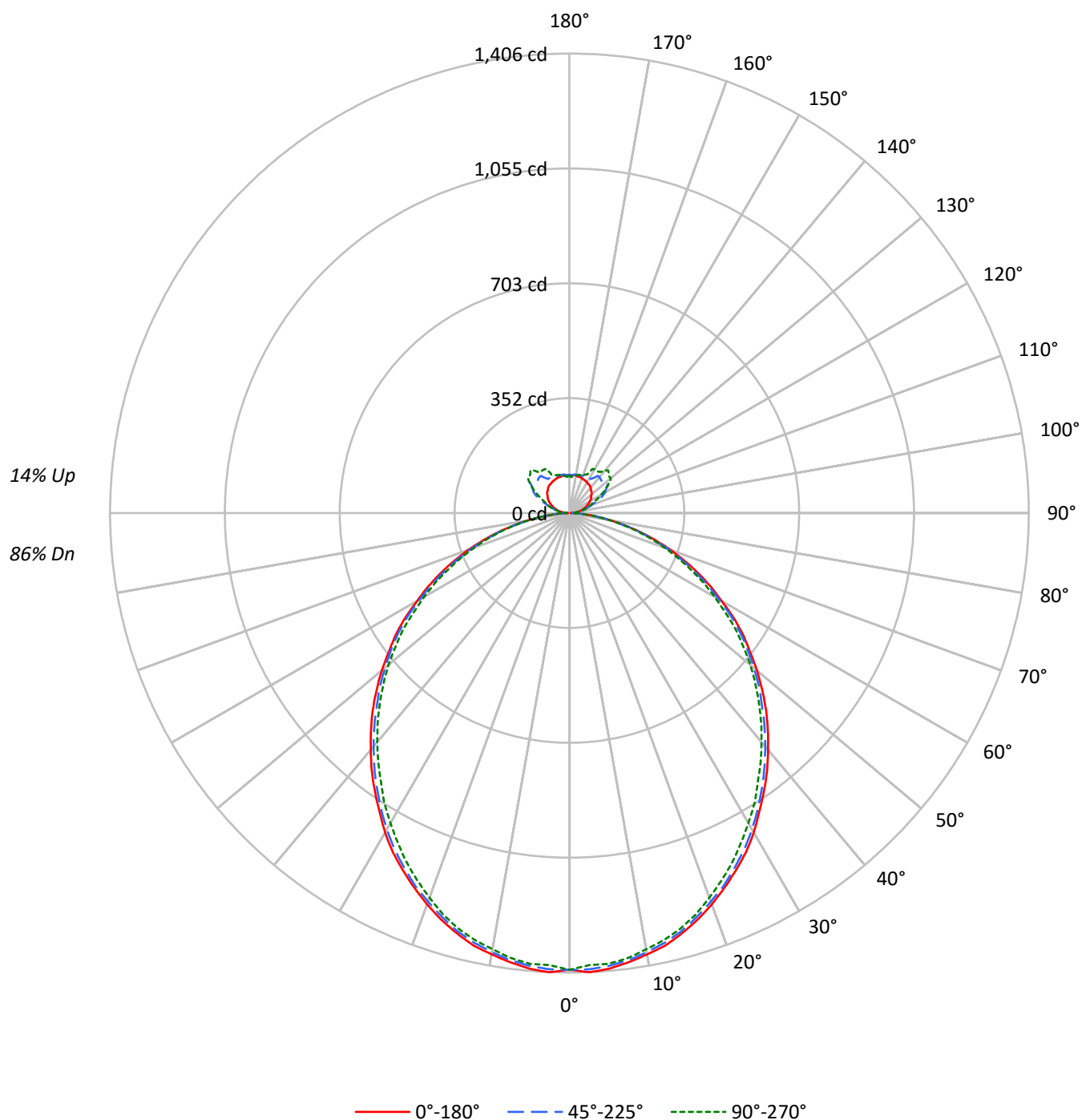
Input Watts (W): 51.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	11281	11281	11281
5°	11342	11271	11217
10°	11239	11185	11112
15°	11127	11071	10998
20°	10945	10869	10755
25°	10740	10661	10504
30°	10520	10417	10212
35°	10231	10122	9906
40°	9965	9825	9640
45°	9713	9513	9361
50°	9412	9246	9080
55°	9120	8997	8749
60°	8683	8541	8293
65°	8294	8084	7832
70°	7751	7544	7284
75°	7012	6875	6669
80°	5941	5839	5737
85°	4492	4696	4492



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	3.2
10°-20°	371.9	8.9
20°-30°	548.5	13.1
30°-40°	639.3	15.3
40°-50°	642.8	15.4
50°-60°	566.1	13.5
60°-70°	417.9	10.0
70°-80°	231.5	5.5
80°-90°	60.3	1.4
90°-100°	21.4	0.5
100°-110°	55.2	1.3
110°-120°	89.7	2.1
120°-130°	112.0	2.7
130°-140°	105.3	2.5
140°-150°	83.0	2.0
150°-160°	57.2	1.4
160°-170°	33.7	0.8
170°-180°	11.1	0.3
0°-30°	1052.1	25.2
0°-40°	1691.4	40.5
0°-60°	2900.4	69.4
0°-90°	3610.0	86.4
90°-120°	166.3	4.0
90°-150°	466.6	11.2
90°-180°	569.0	13.6
0°-180°	4178.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1397	1397	1397	1397	1397	
5°	1400	1384	1391	1386	1384	133
15°	1331	1318	1325	1318	1316	375
25°	1206	1195	1197	1181	1179	556
35°	1038	1029	1027	1010	1005	650
45°	851	842	833	822	820	656
55°	648	641	639	626	622	578
65°	434	430	423	414	410	429
75°	225	223	220	214	214	238
85°	48	51	51	48	48	57
90°	4	9	9	9	9	5
95°	15	18	20	20	20	16
105°	42	57	51	55	51	44
115°	62	99	101	88	86	62
125°	82	112	139	143	141	72
135°	95	106	139	172	170	73
145°	106	110	132	152	154	66
155°	110	115	121	130	130	51
165°	115	115	121	123	121	32
175°	117	117	117	117	112	11
180°	115	115	115	115	115	



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CATALOG NUMBER: J2-WL-50L92765-1D-UNV-W2A-DLED-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1397.4	1397.4	1397.4	1397.4	1397.4
2.5°	1406.2	1390.8	1397.4	1393.0	1384.2
5°	1399.6	1384.2	1390.8	1386.4	1384.2
7.5°	1386.4	1373.2	1379.8	1375.4	1373.2
10°	1371.0	1357.7	1364.4	1357.7	1355.5
12.5°	1355.5	1340.1	1346.7	1337.9	1337.9
15°	1331.3	1318.1	1324.7	1318.1	1315.9
17.5°	1304.8	1291.6	1296.0	1289.4	1287.2
20°	1274.0	1260.8	1265.2	1256.4	1251.9
22.5°	1240.9	1229.9	1234.3	1218.9	1216.7
25°	1205.7	1194.6	1196.8	1181.4	1179.2
27.5°	1170.4	1155.0	1159.4	1141.7	1137.3
30°	1128.5	1115.3	1117.5	1099.9	1095.5
32.5°	1082.2	1073.4	1073.4	1055.8	1053.6
35°	1038.1	1029.3	1027.1	1009.5	1005.1
37.5°	994.1	983.0	980.8	961.0	961.0
40°	945.6	936.8	932.3	916.9	914.7
42.5°	899.3	888.3	883.9	868.4	868.4
45°	850.8	842.0	833.2	822.1	819.9
47.5°	800.1	791.3	786.9	773.7	771.4
50°	749.4	742.8	736.2	725.2	723.0
52.5°	696.5	692.1	687.7	676.7	670.1
55°	648.0	641.4	639.2	626.0	621.6
57.5°	595.1	588.5	586.3	570.9	564.3
60°	537.8	531.2	529.0	515.8	513.6
62.5°	487.1	480.5	476.1	467.3	462.9
65°	434.2	429.8	423.2	414.4	410.0
67.5°	381.3	376.9	370.3	363.7	359.3
70°	328.4	324.0	319.6	310.8	308.6
72.5°	275.5	271.1	266.7	262.3	262.3
75°	224.8	222.6	220.4	213.8	213.8
77.5°	174.1	171.9	169.7	167.5	167.5
80°	127.8	127.8	125.6	123.4	123.4
82.5°	86.0	86.0	86.0	83.8	83.8
85°	48.5	50.7	50.7	48.5	48.5
87.5°	19.8	19.8	19.8	19.8	19.8
90°	4.4	8.8	8.8	8.8	8.8
92.5°	8.8	11.0	13.2	15.4	13.2
95°	15.4	17.6	19.8	19.8	19.8
97.5°	24.2	26.4	26.4	26.4	26.4
100°	30.9	35.3	33.1	35.3	33.1
102.5°	37.5	46.3	46.3	41.9	41.9
105°	41.9	57.3	50.7	55.1	50.7
107.5°	46.3	70.5	59.5	61.7	63.9
110°	52.9	79.3	72.7	66.1	68.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	57.3	97.0	86.0	77.1	74.9
115°	61.7	99.2	101.4	88.2	86.0
117.5°	68.3	99.2	114.6	103.6	99.2
120°	72.7	105.8	125.6	116.8	112.4
122.5°	77.1	110.2	132.2	132.2	127.8
125°	81.6	112.4	138.9	143.3	141.1
127.5°	83.8	105.8	149.9	156.5	154.3
130°	88.2	101.4	147.7	158.7	165.3
132.5°	92.6	103.6	143.3	160.9	165.3
135°	94.8	105.8	138.9	171.9	169.7
137.5°	97.0	108.0	141.1	165.3	176.3
140°	101.4	108.0	143.3	156.5	169.7
142.5°	103.6	110.2	143.3	149.9	158.7
145°	105.8	110.2	132.2	152.1	154.3
147.5°	105.8	112.4	123.4	154.3	154.3
150°	108.0	112.4	123.4	154.3	154.3
152.5°	110.2	114.6	121.2	134.5	152.1
155°	110.2	114.6	121.2	130.0	130.0
157.5°	112.4	114.6	121.2	127.8	127.8
160°	112.4	114.6	121.2	125.6	123.4
162.5°	114.6	114.6	119.0	123.4	121.2
165°	114.6	114.6	121.2	123.4	121.2
167.5°	114.6	116.8	119.0	121.2	119.0
170°	116.8	116.8	119.0	119.0	116.8
172.5°	116.8	116.8	119.0	116.8	114.6
175°	116.8	116.8	116.8	116.8	112.4
177.5°	116.8	114.6	116.8	114.6	110.2
180°	114.6	114.6	114.6	114.6	114.6

(END OF REPORT)