

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: P274944

Luminaire Tested: **J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (3000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P274944
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 (3000K)
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 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.9 lumens
Efficiency: N/A
Efficacy: 86.6 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

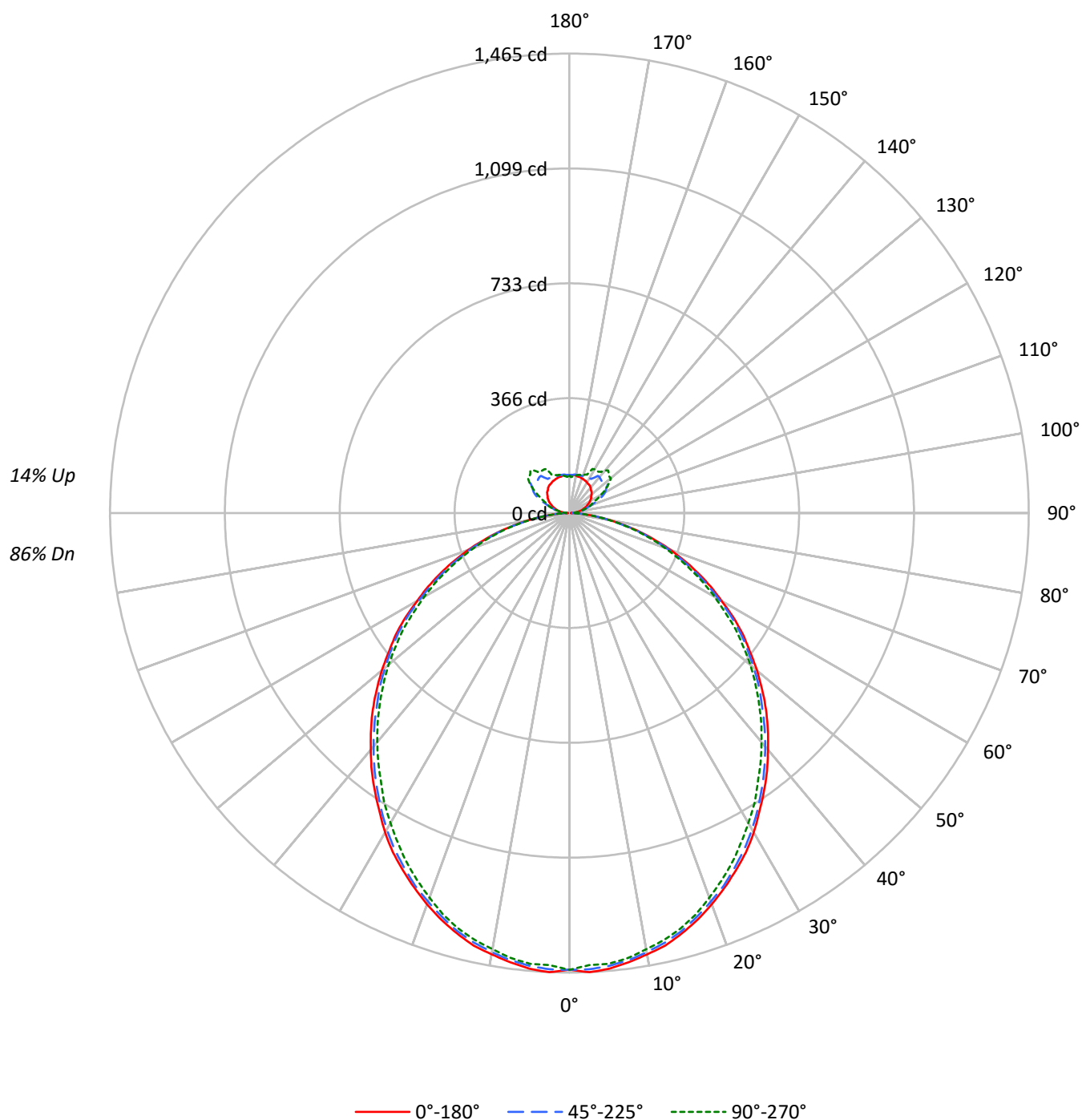
Input Watts (W): 50.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11754	11754	11754
5°	11818	11743	11688
10°	11710	11654	11578
15°	11593	11535	11459
20°	11404	11325	11207
25°	11190	11108	10945
30°	10962	10854	10640
35°	10660	10547	10320
40°	10383	10238	10044
45°	10121	9911	9753
50°	9806	9634	9461
55°	9503	9374	9115
60°	9048	8900	8640
65°	8642	8422	8160
70°	8077	7860	7589
75°	7308	7165	6949
80°	6192	6086	5979
85°	4678	4891	4678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.2
10°-20°	387.5	8.9
20°-30°	571.6	13.1
30°-40°	666.2	15.3
40°-50°	669.8	15.4
50°-60°	589.8	13.5
60°-70°	435.4	10.0
70°-80°	241.2	5.5
80°-90°	62.8	1.4
90°-100°	22.3	0.5
100°-110°	57.5	1.3
110°-120°	93.4	2.1
120°-130°	116.7	2.7
130°-140°	109.7	2.5
140°-150°	86.5	2.0
150°-160°	59.6	1.4
160°-170°	35.1	0.8
170°-180°	11.6	0.3
0°-30°	1096.2	25.2
0°-40°	1762.4	40.5
0°-60°	3022.0	69.4
0°-90°	3761.4	86.4
90°-120°	173.3	4.0
90°-150°	486.2	11.2
90°-180°	592.0	13.6
0°-180°	4353.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1458	1442	1449	1445	1442	138
15°	1387	1373	1380	1373	1371	391
25°	1256	1245	1247	1231	1229	579
35°	1082	1072	1070	1052	1047	677
45°	886	877	868	857	854	683
55°	675	668	666	652	648	602
65°	452	448	441	432	427	447
75°	234	232	230	223	223	248
85°	50	53	53	50	50	59
90°	5	9	9	9	9	5
95°	16	18	21	21	21	17
105°	44	60	53	57	53	46
115°	64	103	106	92	90	65
125°	85	117	145	149	147	75
135°	99	110	145	179	177	76
145°	110	115	138	158	161	69
155°	115	119	126	136	136	53
165°	119	119	126	129	126	34
175°	122	122	122	122	117	12
180°	119	119	119	119	119	



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CATALOG NUMBER: J2-WL-50L82765-1D-UNV-W2A-DLED-W-4 (3000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1456.0	1456.0	1456.0	1456.0	1456.0
2.5°	1465.2	1449.1	1456.0	1451.4	1442.3
5°	1458.3	1442.3	1449.1	1444.6	1442.3
7.5°	1444.6	1430.8	1437.7	1433.1	1430.8
10°	1428.5	1414.7	1421.6	1414.7	1412.4
12.5°	1412.4	1396.3	1403.2	1394.0	1394.0
15°	1387.1	1373.4	1380.2	1373.4	1371.1
17.5°	1359.6	1345.8	1350.4	1343.5	1341.2
20°	1327.4	1313.6	1318.2	1309.1	1304.5
22.5°	1293.0	1281.5	1286.1	1270.0	1267.7
25°	1256.2	1244.7	1247.0	1231.0	1228.7
27.5°	1219.5	1203.4	1208.0	1189.6	1185.0
30°	1175.9	1162.1	1164.4	1146.0	1141.4
32.5°	1127.6	1118.4	1118.4	1100.1	1097.8
35°	1081.7	1072.5	1070.2	1051.8	1047.2
37.5°	1035.8	1024.3	1022.0	1001.3	1001.3
40°	985.2	976.0	971.5	955.4	953.1
42.5°	937.0	925.5	920.9	904.9	904.9
45°	886.5	877.3	868.1	856.6	854.3
47.5°	833.7	824.5	819.9	806.1	803.8
50°	780.8	773.9	767.1	755.6	753.3
52.5°	725.7	721.1	716.5	705.1	698.2
55°	675.2	668.3	666.0	652.2	647.6
57.5°	620.1	613.2	610.9	594.8	587.9
60°	560.4	553.5	551.2	537.4	535.1
62.5°	507.5	500.7	496.1	486.9	482.3
65°	452.4	447.8	440.9	431.8	427.2
67.5°	397.3	392.7	385.8	378.9	374.3
70°	342.2	337.6	333.0	323.8	321.5
72.5°	287.1	282.5	277.9	273.3	273.3
75°	234.3	232.0	229.7	222.8	222.8
77.5°	181.4	179.1	176.8	174.5	174.5
80°	133.2	133.2	130.9	128.6	128.6
82.5°	89.6	89.6	89.6	87.3	87.3
85°	50.5	52.8	52.8	50.5	50.5
87.5°	20.7	20.7	20.7	20.7	20.7
90°	4.6	9.2	9.2	9.2	9.2
92.5°	9.2	11.5	13.8	16.1	13.8
95°	16.1	18.4	20.7	20.7	20.7
97.5°	25.3	27.6	27.6	27.6	27.6
100°	32.2	36.7	34.4	36.7	34.4
102.5°	39.0	48.2	48.2	43.6	43.6
105°	43.6	59.7	52.8	57.4	52.8
107.5°	48.2	73.5	62.0	64.3	66.6
110°	55.1	82.7	75.8	68.9	71.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.7	101.0	89.6	80.4	78.1
115°	64.3	103.3	105.6	91.9	89.6
117.5°	71.2	103.3	119.4	107.9	103.3
120°	75.8	110.2	130.9	121.7	117.1
122.5°	80.4	114.8	137.8	137.8	133.2
125°	85.0	117.1	144.7	149.3	147.0
127.5°	87.3	110.2	156.2	163.1	160.8
130°	91.9	105.6	153.9	165.4	172.2
132.5°	96.5	107.9	149.3	167.7	172.2
135°	98.8	110.2	144.7	179.1	176.8
137.5°	101.0	112.5	147.0	172.2	183.7
140°	105.6	112.5	149.3	163.1	176.8
142.5°	107.9	114.8	149.3	156.2	165.4
145°	110.2	114.8	137.8	158.5	160.8
147.5°	110.2	117.1	128.6	160.8	160.8
150°	112.5	117.1	128.6	160.8	160.8
152.5°	114.8	119.4	126.3	140.1	158.5
155°	114.8	119.4	126.3	135.5	135.5
157.5°	117.1	119.4	126.3	133.2	133.2
160°	117.1	119.4	126.3	130.9	128.6
162.5°	119.4	119.4	124.0	128.6	126.3
165°	119.4	119.4	126.3	128.6	126.3
167.5°	119.4	121.7	124.0	126.3	124.0
170°	121.7	121.7	124.0	124.0	121.7
172.5°	121.7	121.7	124.0	121.7	119.4
175°	121.7	121.7	121.7	121.7	117.1
177.5°	121.7	119.4	121.7	119.4	114.8
180°	119.4	119.4	119.4	119.4	119.4

(END OF REPORT)