

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: P253403

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253403
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-50L93050-1D-UNV-W2A-DLED-W-4 (5000K)
Description: JAYLUM J2 SUSPENDED LED LUMINAIRE, FROSTED LENS WITH DOWNLIGHT KIT.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4306.9 lumens
Efficiency: N/A
Efficacy: 81.6 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

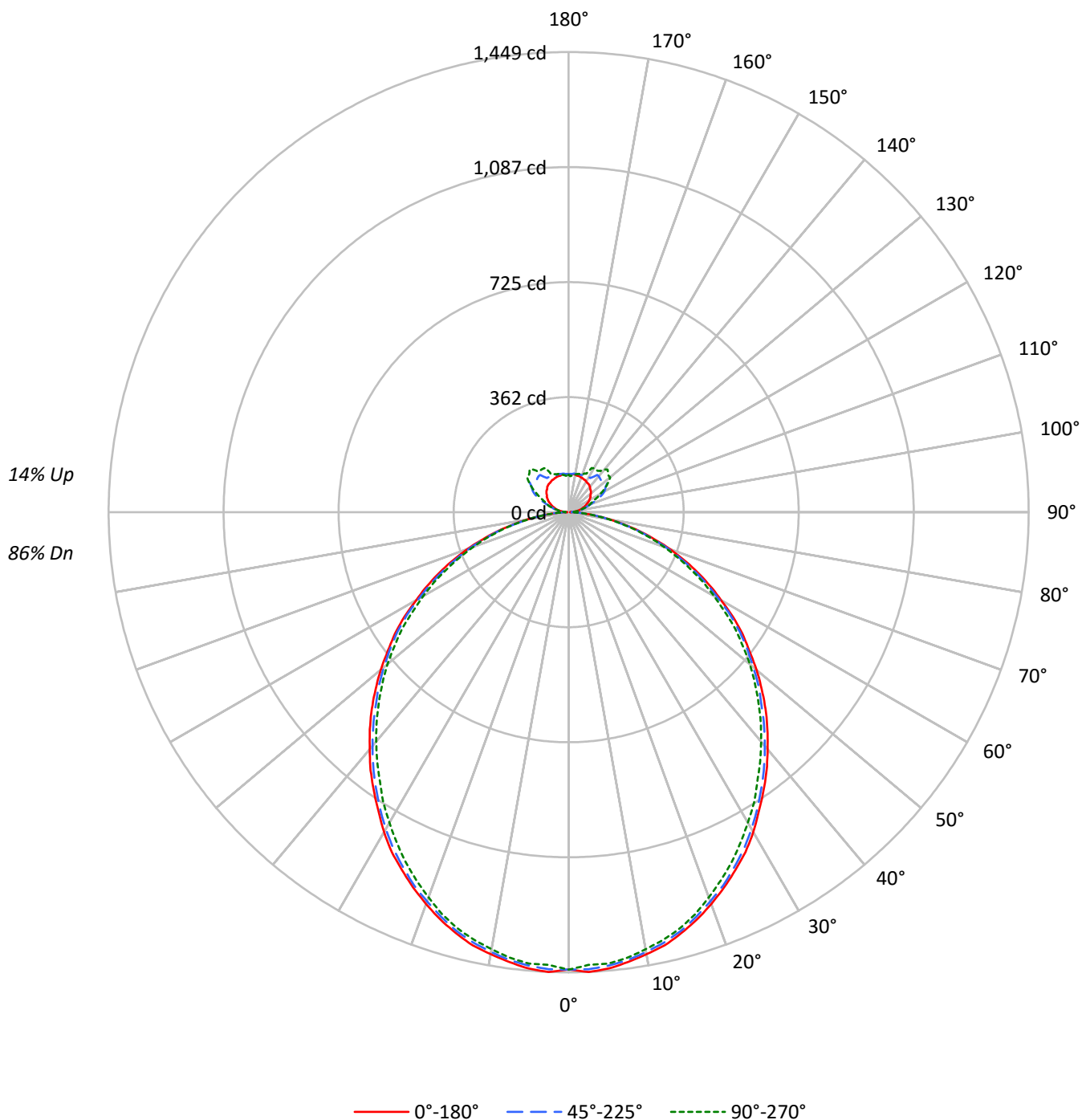
Input Watts (W): 52.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	86							
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73							
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61							
3	88	78	70	64	85	75	68	62	71	65	60	66	61	57	62	58	54	52							
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	51	47	44							
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	50	45	41	38							
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34							
7	64	51	42	36	61	49	41	36	46	39	34	44	38	33	41	36	32	30							
8	59	46	38	32	57	45	37	32	42	36	31	40	34	30	38	33	29	27							
9	55	42	34	29	53	41	34	29	39	32	28	37	31	27	35	30	26	24							
10	52	39	31	26	50	38	31	26	36	30	25	34	29	24	33	27	24	22							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11627	11627	11627
5°	11691	11617	11562
10°	11584	11527	11454
15°	11468	11412	11336
20°	11281	11203	11086
25°	11069	10988	10826
30°	10843	10737	10525
35°	10545	10434	10209
40°	10271	10127	9936
45°	10011	9804	9648
50°	9701	9530	9359
55°	9401	9272	9018
60°	8950	8803	8546
65°	8548	8332	8073
70°	7990	7775	7508
75°	7227	7087	6875
80°	6127	6020	5914
85°	4631	4844	4631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.7	3.2
10°-20°	383.3	8.9
20°-30°	565.4	13.1
30°-40°	659.0	15.3
40°-50°	662.6	15.4
50°-60°	583.5	13.5
60°-70°	430.7	10.0
70°-80°	238.6	5.5
80°-90°	62.1	1.4
90°-100°	22.1	0.5
100°-110°	56.9	1.3
110°-120°	92.4	2.1
120°-130°	115.5	2.7
130°-140°	108.5	2.5
140°-150°	85.5	2.0
150°-160°	58.9	1.4
160°-170°	34.7	0.8
170°-180°	11.5	0.3
0°-30°	1084.4	25.2
0°-40°	1743.4	40.5
0°-60°	2989.4	69.4
0°-90°	3720.8	86.4
90°-120°	171.5	4.0
90°-150°	481.0	11.2
90°-180°	586.0	13.6
0°-180°	4306.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1443	1427	1434	1429	1427	137
15°	1372	1358	1365	1358	1356	387
25°	1243	1231	1234	1218	1215	573
35°	1070	1061	1059	1040	1036	670
45°	877	868	859	847	845	676
55°	668	661	659	645	641	595
65°	448	443	436	427	423	443
75°	232	230	227	220	220	245
85°	50	52	52	50	50	58
90°	4	9	9	9	9	5
95°	16	18	20	20	20	17
105°	43	59	52	57	52	46
115°	64	102	104	91	89	64
125°	84	116	143	148	145	75
135°	98	109	143	177	175	76
145°	109	114	136	157	159	68
155°	114	118	125	134	134	53
165°	118	118	125	127	125	33
175°	120	120	120	120	116	11
180°	118	118	118	118	118	



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CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.3	1440.3	1440.3	1440.3	1440.3
2.5°	1449.4	1433.5	1440.3	1435.8	1426.7
5°	1442.6	1426.7	1433.5	1429.0	1426.7
7.5°	1429.0	1415.3	1422.2	1417.6	1415.3
10°	1413.1	1399.4	1406.2	1399.4	1397.2
12.5°	1397.2	1381.3	1388.1	1379.0	1379.0
15°	1372.2	1358.5	1365.4	1358.5	1356.3
17.5°	1344.9	1331.3	1335.8	1329.0	1326.7
20°	1313.1	1299.5	1304.0	1294.9	1290.4
22.5°	1279.0	1267.7	1272.2	1256.3	1254.0
25°	1242.7	1231.3	1233.6	1217.7	1215.4
27.5°	1206.3	1190.4	1195.0	1176.8	1172.3
30°	1163.2	1149.5	1151.8	1133.6	1129.1
32.5°	1115.5	1106.4	1106.4	1088.2	1085.9
35°	1070.0	1060.9	1058.7	1040.5	1035.9
37.5°	1024.6	1013.2	1011.0	990.5	990.5
40°	974.6	965.5	961.0	945.1	942.8
42.5°	926.9	915.5	911.0	895.1	895.1
45°	876.9	867.8	858.7	847.4	845.1
47.5°	824.7	815.6	811.0	797.4	795.1
50°	772.4	765.6	758.8	747.4	745.2
52.5°	717.9	713.3	708.8	697.4	690.6
55°	667.9	661.1	658.8	645.2	640.7
57.5°	613.4	606.6	604.3	588.4	581.6
60°	554.3	547.5	545.2	531.6	529.3
62.5°	502.1	495.3	490.7	481.6	477.1
65°	447.5	443.0	436.2	427.1	422.6
67.5°	393.0	388.5	381.7	374.8	370.3
70°	338.5	334.0	329.4	320.3	318.1
72.5°	284.0	279.4	274.9	270.3	270.3
75°	231.7	229.5	227.2	220.4	220.4
77.5°	179.5	177.2	174.9	172.7	172.7
80°	131.8	131.8	129.5	127.2	127.2
82.5°	88.6	88.6	88.6	86.3	86.3
85°	50.0	52.3	52.3	50.0	50.0
87.5°	20.4	20.4	20.4	20.4	20.4
90°	4.5	9.1	9.1	9.1	9.1
92.5°	9.1	11.4	13.6	15.9	13.6
95°	15.9	18.2	20.4	20.4	20.4
97.5°	25.0	27.3	27.3	27.3	27.3
100°	31.8	36.3	34.1	36.3	34.1
102.5°	38.6	47.7	47.7	43.2	43.2
105°	43.2	59.1	52.3	56.8	52.3
107.5°	47.7	72.7	61.3	63.6	65.9
110°	54.5	81.8	75.0	68.2	70.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	59.1	100.0	88.6	79.5	77.2
115°	63.6	102.2	104.5	90.9	88.6
117.5°	70.4	102.2	118.1	106.8	102.2
120°	75.0	109.0	129.5	120.4	115.9
122.5°	79.5	113.6	136.3	136.3	131.8
125°	84.1	115.9	143.1	147.7	145.4
127.5°	86.3	109.0	154.5	161.3	159.0
130°	90.9	104.5	152.2	163.6	170.4
132.5°	95.4	106.8	147.7	165.8	170.4
135°	97.7	109.0	143.1	177.2	174.9
137.5°	100.0	111.3	145.4	170.4	181.7
140°	104.5	111.3	147.7	161.3	174.9
142.5°	106.8	113.6	147.7	154.5	163.6
145°	109.0	113.6	136.3	156.8	159.0
147.5°	109.0	115.9	127.2	159.0	159.0
150°	111.3	115.9	127.2	159.0	159.0
152.5°	113.6	118.1	124.9	138.6	156.8
155°	113.6	118.1	124.9	134.0	134.0
157.5°	115.9	118.1	124.9	131.8	131.8
160°	115.9	118.1	124.9	129.5	127.2
162.5°	118.1	118.1	122.7	127.2	124.9
165°	118.1	118.1	124.9	127.2	124.9
167.5°	118.1	120.4	122.7	124.9	122.7
170°	120.4	120.4	122.7	122.7	120.4
172.5°	120.4	120.4	122.7	120.4	118.1
175°	120.4	120.4	120.4	120.4	115.9
177.5°	120.4	118.1	120.4	118.1	113.6
180°	118.1	118.1	118.1	118.1	118.1

(END OF REPORT)