

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: P253399

Luminaire Tested: **J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253399
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 (4500K)
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 4500K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4307.8 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

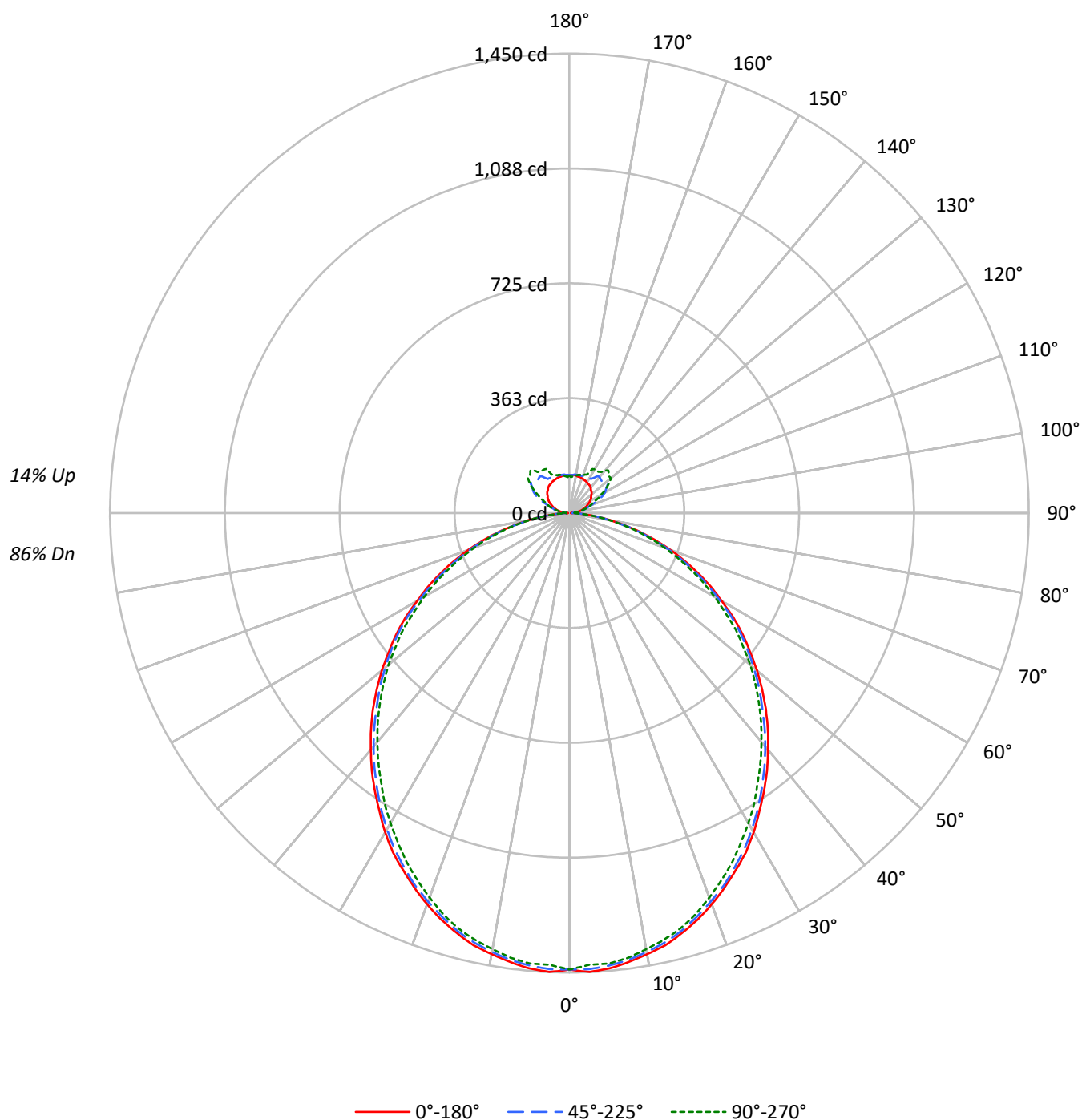
Input Watts (W): 52.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	11630	11630	11630
5°	11693	11619	11564
10°	11586	11530	11455
15°	11470	11413	11337
20°	11283	11205	11088
25°	11071	10990	10828
30°	10845	10739	10527
35°	10547	10436	10211
40°	10273	10130	9938
45°	10014	9806	9651
50°	9703	9531	9360
55°	9402	9274	9019
60°	8951	8804	8548
65°	8550	8334	8073
70°	7992	7777	7508
75°	7230	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°	383.4	8.9
20°-30°	565.5	13.1
30°-40°	659.1	15.3
40°-50°	662.7	15.4
50°-60°	583.6	13.5
60°-70°	430.8	10.0
70°-80°	238.7	5.5
80°-90°	62.1	1.4
90°-100°	22.1	0.5
100°-110°	57.0	1.3
110°-120°	92.5	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°	34.8	0.8
170°-180°	11.5	0.3
0°-30°	1084.6	25.2
0°-40°	1743.7	40.5
0°-60°	2989.9	69.4
0°-90°	3721.5	86.4
90°-120°	171.5	4.0
90°-150°	481.1	11.2
90°-180°	586.0	13.6
0°-180°	4307.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1441	1441	1441	1441	1441	
5°	1443	1427	1434	1429	1427	137
15°	1372	1359	1366	1359	1356	387
25°	1243	1232	1234	1218	1216	573
35°	1070	1061	1059	1041	1036	670
45°	877	868	859	848	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	



TEST NUMBER: P253399

CATALOG NUMBER: J2-WL-50L93050-1D-UNV-W2A-DLED-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.6	1440.6	1440.6	1440.6	1440.6
2.5°	1449.7	1433.8	1440.6	1436.0	1427.0
5°	1442.9	1427.0	1433.8	1429.2	1427.0
7.5°	1429.2	1415.6	1422.4	1417.9	1415.6
10°	1413.3	1399.7	1406.5	1399.7	1397.4
12.5°	1397.4	1381.5	1388.3	1379.2	1379.2
15°	1372.4	1358.8	1365.6	1358.8	1356.5
17.5°	1345.2	1331.5	1336.1	1329.3	1327.0
20°	1313.3	1299.7	1304.3	1295.2	1290.6
22.5°	1279.3	1267.9	1272.4	1256.5	1254.3
25°	1242.9	1231.5	1233.8	1217.9	1215.6
27.5°	1206.6	1190.6	1195.2	1177.0	1172.5
30°	1163.4	1149.7	1152.0	1133.8	1129.3
32.5°	1115.7	1106.6	1106.6	1088.4	1086.1
35°	1070.2	1061.1	1058.9	1040.7	1036.1
37.5°	1024.8	1013.4	1011.1	990.7	990.7
40°	974.8	965.7	961.2	945.2	943.0
42.5°	927.1	915.7	911.2	895.3	895.3
45°	877.1	868.0	858.9	847.5	845.3
47.5°	824.8	815.7	811.2	797.6	795.3
50°	772.6	765.7	758.9	747.6	745.3
52.5°	718.0	713.5	708.9	697.6	690.8
55°	668.0	661.2	658.9	645.3	640.8
57.5°	613.5	606.7	604.4	588.5	581.7
60°	554.4	547.6	545.3	531.7	529.4
62.5°	502.2	495.3	490.8	481.7	477.2
65°	447.6	443.1	436.3	427.2	422.6
67.5°	393.1	388.6	381.7	374.9	370.4
70°	338.6	334.0	329.5	320.4	318.1
72.5°	284.0	279.5	274.9	270.4	270.4
75°	231.8	229.5	227.2	220.4	220.4
77.5°	179.5	177.2	175.0	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°	20.5	20.5	20.5	20.5	20.5
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	20.5	20.5	20.5
97.5°	25.0	27.3	27.3	27.3	27.3
100°	31.8	36.4	34.1	36.4	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	61.4	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	77.3
115°	63.6	102.3	104.5	90.9	88.6
117.5°	70.4	102.3	118.2	106.8	102.3
120°	75.0	109.1	129.5	120.4	115.9
122.5°	79.5	113.6	136.3	136.3	131.8
125°	84.1	115.9	143.2	147.7	145.4
127.5°	86.3	109.1	154.5	161.3	159.1
130°	90.9	104.5	152.2	163.6	170.4
132.5°	95.4	106.8	147.7	165.9	170.4
135°	97.7	109.1	143.2	177.2	175.0
137.5°	100.0	111.3	145.4	170.4	181.8
140°	104.5	111.3	147.7	161.3	175.0
142.5°	106.8	113.6	147.7	154.5	163.6
145°	109.1	113.6	136.3	156.8	159.1
147.5°	109.1	115.9	127.2	159.1	159.1
150°	111.3	115.9	127.2	159.1	159.1
152.5°	113.6	118.2	125.0	138.6	156.8
155°	113.6	118.2	125.0	134.1	134.1
157.5°	115.9	118.2	125.0	131.8	131.8
160°	115.9	118.2	125.0	129.5	127.2
162.5°	118.2	118.2	122.7	127.2	125.0
165°	118.2	118.2	125.0	127.2	125.0
167.5°	118.2	120.4	122.7	125.0	122.7
170°	120.4	120.4	122.7	122.7	120.4
172.5°	120.4	120.4	122.7	120.4	118.2
175°	120.4	120.4	120.4	120.4	115.9
177.5°	120.4	118.2	120.4	118.2	113.6
180°	118.2	118.2	118.2	118.2	118.2

(END OF REPORT)