

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: P253383

Luminaire Tested: **J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (5000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253383
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-50L83050-1D-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, 80 CRI LEDS, TUNED TO 5000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4896.8 lumens
Efficiency: N/A
Efficacy: 92.0 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

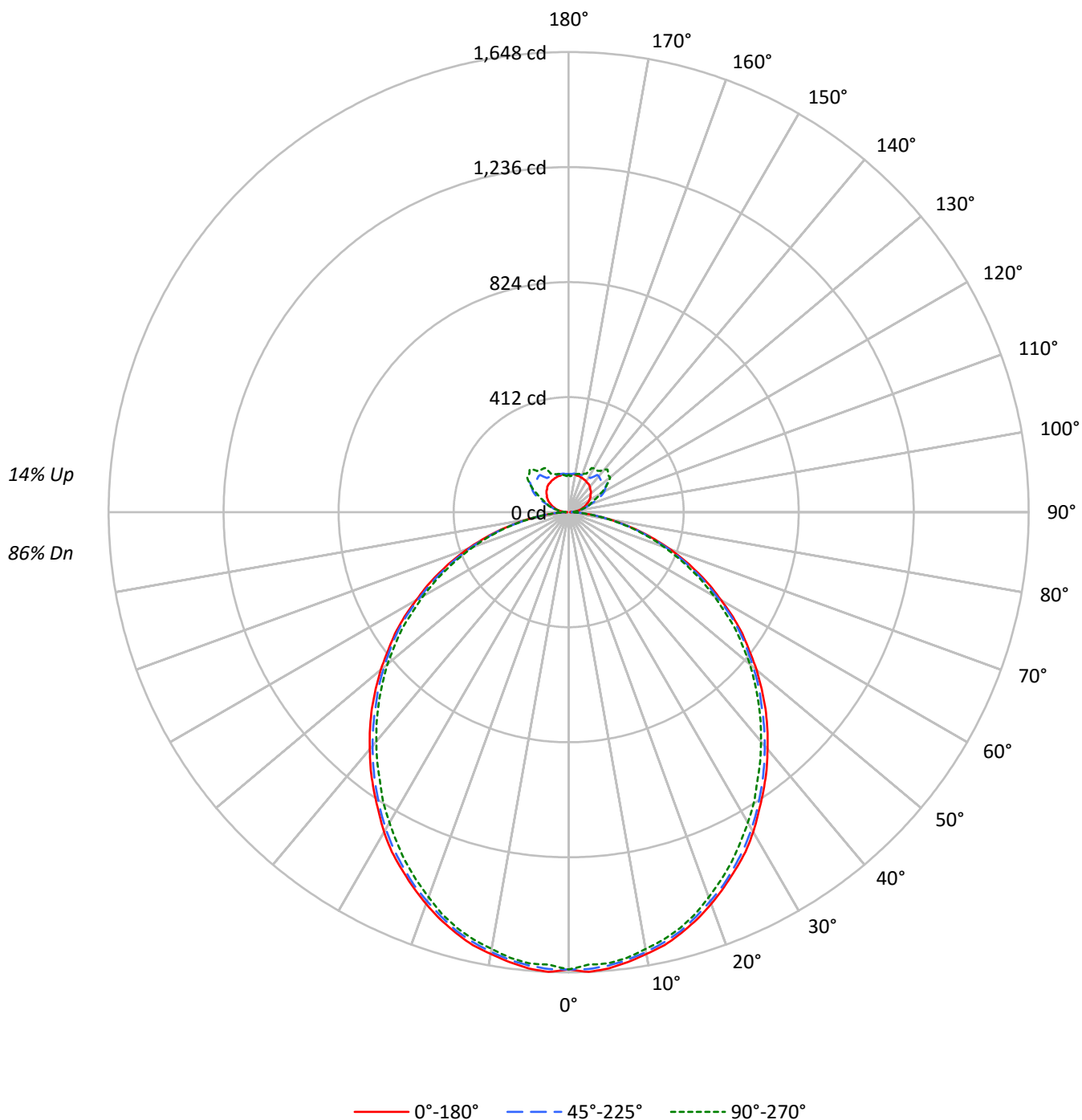
Input Watts (W): 53.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	13220	13220	13220
5°	13292	13208	13145
10°	13170	13107	13022
15°	13039	12975	12888
20°	12826	12737	12604
25°	12585	12494	12309
30°	12328	12208	11966
35°	11990	11863	11608
40°	11678	11514	11296
45°	11383	11147	10970
50°	11030	10835	10640
55°	10688	10543	10252
60°	10175	10009	9717
65°	9719	9473	9177
70°	9085	8840	8535
75°	8219	8057	7813
80°	6964	6843	6722
85°	5261	5502	5261



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	3.2
10°-20°	435.8	8.9
20°-30°	642.8	13.1
30°-40°	749.2	15.3
40°-50°	753.3	15.4
50°-60°	663.4	13.5
60°-70°	489.7	10.0
70°-80°	271.3	5.5
80°-90°	70.6	1.4
90°-100°	25.1	0.5
100°-110°	64.7	1.3
110°-120°	105.1	2.1
120°-130°	131.3	2.7
130°-140°	123.4	2.5
140°-150°	97.2	2.0
150°-160°	67.0	1.4
160°-170°	39.5	0.8
170°-180°	13.1	0.3
0°-30°	1232.9	25.2
0°-40°	1982.2	40.5
0°-60°	3398.9	69.4
0°-90°	4230.5	86.4
90°-120°	194.9	4.0
90°-150°	546.8	11.2
90°-180°	666.0	13.6
0°-180°	4896.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1638	1638	1638	1638	1638	
5°	1640	1622	1630	1625	1622	155
15°	1560	1545	1552	1545	1542	440
25°	1413	1400	1403	1384	1382	651
35°	1217	1206	1204	1183	1178	761
45°	997	987	976	964	961	768
55°	759	752	749	734	728	677
65°	509	504	496	486	480	503
75°	264	261	258	250	250	279
85°	57	59	59	57	57	66
90°	5	10	10	10	10	6
95°	18	21	23	23	23	19
105°	49	67	59	65	59	52
115°	72	116	119	103	101	73
125°	96	132	163	168	165	85
135°	111	124	163	202	199	86
145°	124	129	155	178	181	77
155°	129	134	142	152	152	60
165°	134	134	142	145	142	38
175°	137	137	137	137	132	13
180°	134	134	134	134	134	



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CATALOG NUMBER: J2-WL-50L83050-1D-UNV-W2A-DLED-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.6	1637.6	1637.6	1637.6	1637.6
2.5°	1647.9	1629.9	1637.6	1632.4	1622.1
5°	1640.2	1622.1	1629.9	1624.7	1622.1
7.5°	1624.7	1609.2	1616.9	1611.8	1609.2
10°	1606.6	1591.1	1598.9	1591.1	1588.5
12.5°	1588.5	1570.5	1578.2	1567.9	1567.9
15°	1560.1	1544.6	1552.4	1544.6	1542.0
17.5°	1529.1	1513.6	1518.8	1511.0	1508.5
20°	1493.0	1477.5	1482.6	1472.3	1467.1
22.5°	1454.2	1441.3	1446.5	1428.4	1425.8
25°	1412.9	1400.0	1402.6	1384.5	1381.9
27.5°	1371.6	1353.5	1358.7	1338.0	1332.8
30°	1322.5	1307.0	1309.6	1288.9	1283.7
32.5°	1268.2	1257.9	1257.9	1237.3	1234.7
35°	1216.6	1206.3	1203.7	1183.0	1177.8
37.5°	1164.9	1152.0	1149.4	1126.2	1126.2
40°	1108.1	1097.8	1092.6	1074.5	1071.9
42.5°	1053.9	1040.9	1035.8	1017.7	1017.7
45°	997.0	986.7	976.4	963.5	960.9
47.5°	937.6	927.3	922.1	906.6	904.0
50°	878.2	870.5	862.7	849.8	847.2
52.5°	816.2	811.1	805.9	793.0	785.2
55°	759.4	751.6	749.1	733.6	728.4
57.5°	697.4	689.7	687.1	669.0	661.2
60°	630.2	622.5	619.9	604.4	601.8
62.5°	570.8	563.1	557.9	547.6	542.4
65°	508.8	503.7	495.9	485.6	480.4
67.5°	446.9	441.7	433.9	426.2	421.0
70°	384.9	379.7	374.5	364.2	361.6
72.5°	322.9	317.7	312.5	307.4	307.4
75°	263.5	260.9	258.3	250.5	250.5
77.5°	204.1	201.5	198.9	196.3	196.3
80°	149.8	149.8	147.2	144.6	144.6
82.5°	100.7	100.7	100.7	98.2	98.2
85°	56.8	59.4	59.4	56.8	56.8
87.5°	23.2	23.2	23.2	23.2	23.2
90°	5.2	10.3	10.3	10.3	10.3
92.5°	10.3	12.9	15.5	18.1	15.5
95°	18.1	20.7	23.2	23.2	23.2
97.5°	28.4	31.0	31.0	31.0	31.0
100°	36.2	41.3	38.7	41.3	38.7
102.5°	43.9	54.2	54.2	49.1	49.1
105°	49.1	67.2	59.4	64.6	59.4
107.5°	54.2	82.7	69.7	72.3	74.9
110°	62.0	93.0	85.2	77.5	80.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	67.2	113.7	100.7	90.4	87.8
115°	72.3	116.2	118.8	103.3	100.7
117.5°	80.1	116.2	134.3	121.4	116.2
120°	85.2	124.0	147.2	136.9	131.7
122.5°	90.4	129.1	155.0	155.0	149.8
125°	95.6	131.7	162.7	167.9	165.3
127.5°	98.2	124.0	175.6	183.4	180.8
130°	103.3	118.8	173.1	186.0	193.7
132.5°	108.5	121.4	167.9	188.6	193.7
135°	111.1	124.0	162.7	201.5	198.9
137.5°	113.7	126.6	165.3	193.7	206.6
140°	118.8	126.6	167.9	183.4	198.9
142.5°	121.4	129.1	167.9	175.6	186.0
145°	124.0	129.1	155.0	178.2	180.8
147.5°	124.0	131.7	144.6	180.8	180.8
150°	126.6	131.7	144.6	180.8	180.8
152.5°	129.1	134.3	142.1	157.6	178.2
155°	129.1	134.3	142.1	152.4	152.4
157.5°	131.7	134.3	142.1	149.8	149.8
160°	131.7	134.3	142.1	147.2	144.6
162.5°	134.3	134.3	139.5	144.6	142.1
165°	134.3	134.3	142.1	144.6	142.1
167.5°	134.3	136.9	139.5	142.1	139.5
170°	136.9	136.9	139.5	139.5	136.9
172.5°	136.9	136.9	139.5	136.9	134.3
175°	136.9	136.9	136.9	136.9	131.7
177.5°	136.9	134.3	136.9	134.3	129.1
180°	134.3	134.3	134.3	134.3	134.3

(END OF REPORT)