

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: P253398

Luminaire Tested: **J2-WL-40L93050-1D-UNV-W2A-DLED-W-4 (4500K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253398
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-40L93050-1D-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: 3404.6 lumens
Efficiency: N/A
Efficacy: 89.1 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

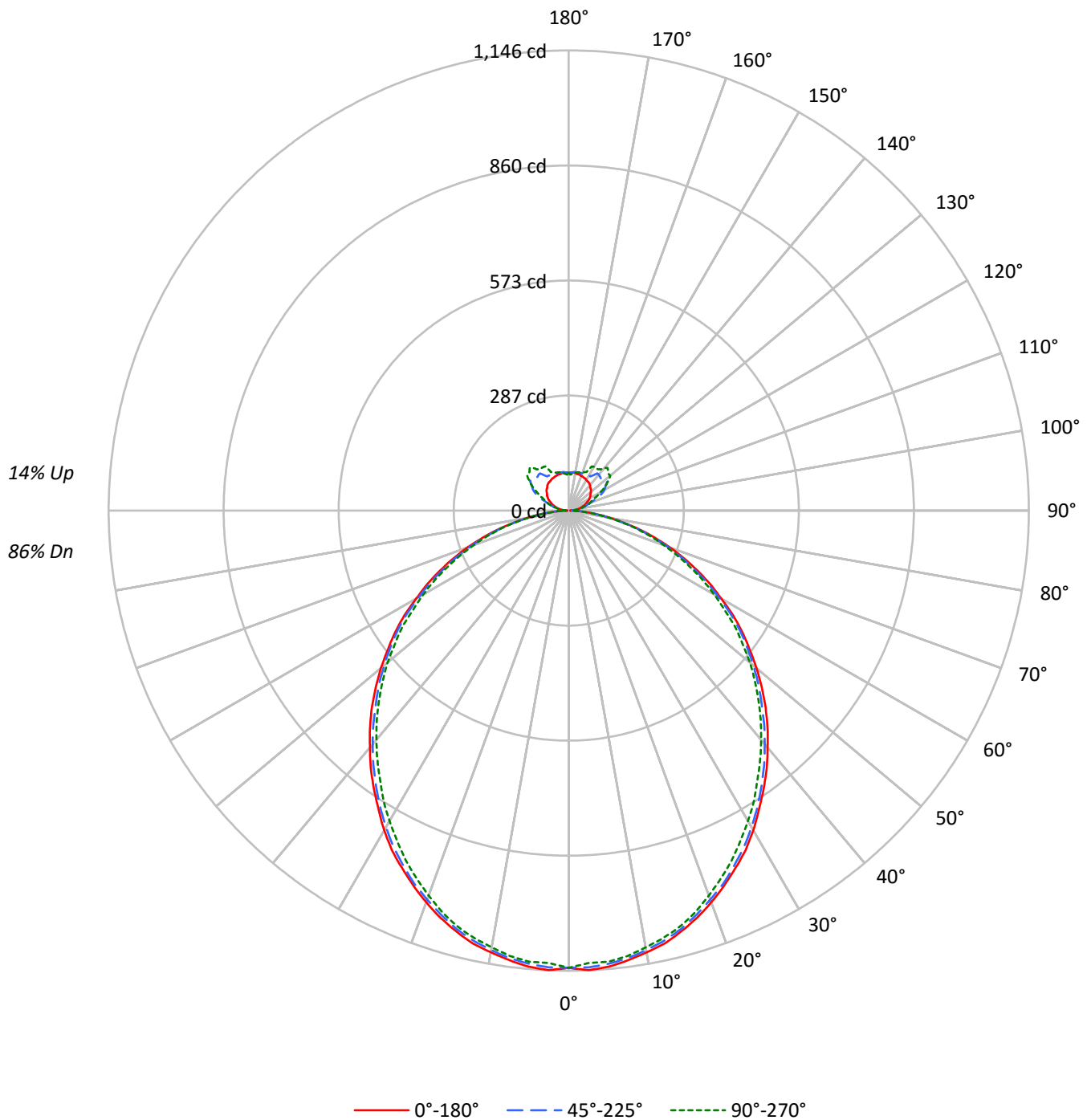
Input Watts (W): 38.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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°	9192	9192	9192
5°	9241	9183	9139
10°	9157	9112	9053
15°	9066	9020	8960
20°	8918	8856	8763
25°	8750	8686	8558
30°	8571	8488	8320
35°	8336	8248	8070
40°	8119	8005	7854
45°	7914	7750	7626
50°	7669	7533	7397
55°	7431	7330	7127
60°	7075	6959	6755
65°	6758	6586	6380
70°	6316	6146	5934
75°	5714	5602	5434
80°	4844	4761	4677
85°	3659	3825	3659



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.3	3.2
10°-20°	303.0	8.9
20°-30°	446.9	13.1
30°-40°	520.9	15.3
40°-50°	523.7	15.4
50°-60°	461.2	13.5
60°-70°	340.5	10.0
70°-80°	188.6	5.5
80°-90°	49.1	1.4
90°-100°	17.5	0.5
100°-110°	45.0	1.3
110°-120°	73.1	2.1
120°-130°	91.3	2.7
130°-140°	85.8	2.5
140°-150°	67.6	2.0
150°-160°	46.6	1.4
160°-170°	27.5	0.8
170°-180°	9.1	0.3
0°-30°	857.2	25.2
0°-40°	1378.1	40.5
0°-60°	2363.1	69.4
0°-90°	2941.3	86.4
90°-120°	135.5	4.0
90°-150°	380.2	11.2
90°-180°	463.0	13.6
0°-180°	3404.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1140	1128	1133	1130	1128	108
15°	1085	1074	1079	1074	1072	306
25°	982	973	975	963	961	453
35°	846	839	837	822	819	529
45°	693	686	679	670	668	534
55°	528	523	521	510	506	471
65°	354	350	345	338	334	350
75°	183	181	180	174	174	194
85°	40	41	41	40	40	46
90°	4	7	7	7	7	4
95°	13	14	16	16	16	13
105°	34	47	41	45	41	36
115°	50	81	83	72	70	50
125°	66	92	113	117	115	59
135°	77	86	113	140	138	60
145°	86	90	108	124	126	54
155°	90	93	99	106	106	42
165°	93	93	99	101	99	26
175°	95	95	95	95	92	9
180°	93	93	93	93	93	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.6	1138.6	1138.6	1138.6	1138.6
2.5°	1145.7	1133.2	1138.6	1135.0	1127.8
5°	1140.3	1127.8	1133.2	1129.6	1127.8
7.5°	1129.6	1118.8	1124.2	1120.6	1118.8
10°	1117.0	1106.2	1111.6	1106.2	1104.4
12.5°	1104.4	1091.9	1097.2	1090.1	1090.1
15°	1084.7	1073.9	1079.3	1073.9	1072.1
17.5°	1063.1	1052.4	1055.9	1050.6	1048.8
20°	1038.0	1027.2	1030.8	1023.6	1020.0
22.5°	1011.0	1002.1	1005.7	993.1	991.3
25°	982.3	973.3	975.1	962.6	960.8
27.5°	953.6	941.0	944.6	930.2	926.6
30°	919.5	908.7	910.5	896.1	892.5
32.5°	881.7	874.6	874.6	860.2	858.4
35°	845.8	838.6	836.9	822.5	818.9
37.5°	809.9	800.9	799.1	783.0	783.0
40°	770.4	763.2	759.6	747.1	745.3
42.5°	732.7	723.7	720.1	707.6	707.6
45°	693.2	686.0	678.8	669.8	668.0
47.5°	651.9	644.7	641.1	630.3	628.5
50°	610.6	605.2	599.8	590.8	589.0
52.5°	567.5	563.9	560.3	551.3	545.9
55°	528.0	522.6	520.8	510.0	506.4
57.5°	484.9	479.5	477.7	465.1	459.7
60°	438.2	432.8	431.0	420.2	418.4
62.5°	396.9	391.5	387.9	380.7	377.1
65°	353.8	350.2	344.8	337.6	334.0
67.5°	310.7	307.1	301.7	296.3	292.7
70°	267.6	264.0	260.4	253.2	251.4
72.5°	224.5	220.9	217.3	213.7	213.7
75°	183.2	181.4	179.6	174.2	174.2
77.5°	141.9	140.1	138.3	136.5	136.5
80°	104.2	104.2	102.4	100.6	100.6
82.5°	70.0	70.0	70.0	68.2	68.2
85°	39.5	41.3	41.3	39.5	39.5
87.5°	16.2	16.2	16.2	16.2	16.2
90°	3.6	7.2	7.2	7.2	7.2
92.5°	7.2	9.0	10.8	12.6	10.8
95°	12.6	14.4	16.2	16.2	16.2
97.5°	19.8	21.5	21.5	21.5	21.5
100°	25.1	28.7	26.9	28.7	26.9
102.5°	30.5	37.7	37.7	34.1	34.1
105°	34.1	46.7	41.3	44.9	41.3
107.5°	37.7	57.5	48.5	50.3	52.1
110°	43.1	64.6	59.3	53.9	55.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.7	79.0	70.0	62.9	61.1
115°	50.3	80.8	82.6	71.8	70.0
117.5°	55.7	80.8	93.4	84.4	80.8
120°	59.3	86.2	102.4	95.2	91.6
122.5°	62.9	89.8	107.7	107.7	104.2
125°	66.4	91.6	113.1	116.7	114.9
127.5°	68.2	86.2	122.1	127.5	125.7
130°	71.8	82.6	120.3	129.3	134.7
132.5°	75.4	84.4	116.7	131.1	134.7
135°	77.2	86.2	113.1	140.1	138.3
137.5°	79.0	88.0	114.9	134.7	143.7
140°	82.6	88.0	116.7	127.5	138.3
142.5°	84.4	89.8	116.7	122.1	129.3
145°	86.2	89.8	107.7	123.9	125.7
147.5°	86.2	91.6	100.6	125.7	125.7
150°	88.0	91.6	100.6	125.7	125.7
152.5°	89.8	93.4	98.8	109.5	123.9
155°	89.8	93.4	98.8	106.0	106.0
157.5°	91.6	93.4	98.8	104.2	104.2
160°	91.6	93.4	98.8	102.4	100.6
162.5°	93.4	93.4	97.0	100.6	98.8
165°	93.4	93.4	98.8	100.6	98.8
167.5°	93.4	95.2	97.0	98.8	97.0
170°	95.2	95.2	97.0	97.0	95.2
172.5°	95.2	95.2	97.0	95.2	93.4
175°	95.2	95.2	95.2	95.2	91.6
177.5°	95.2	93.4	95.2	93.4	89.8
180°	93.4	93.4	93.4	93.4	93.4

(END OF REPORT)