

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: P253615

Luminaire Tested: **JW-WL-20L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

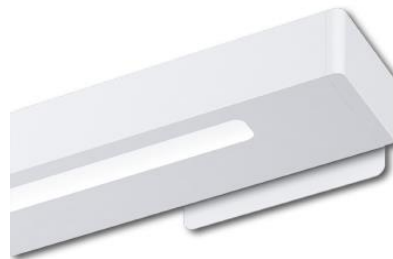
Test Information

Test Method: LM-79-08
Report Number: P253615
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: JW-WL-20L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2106.9 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.26 / 1.4
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

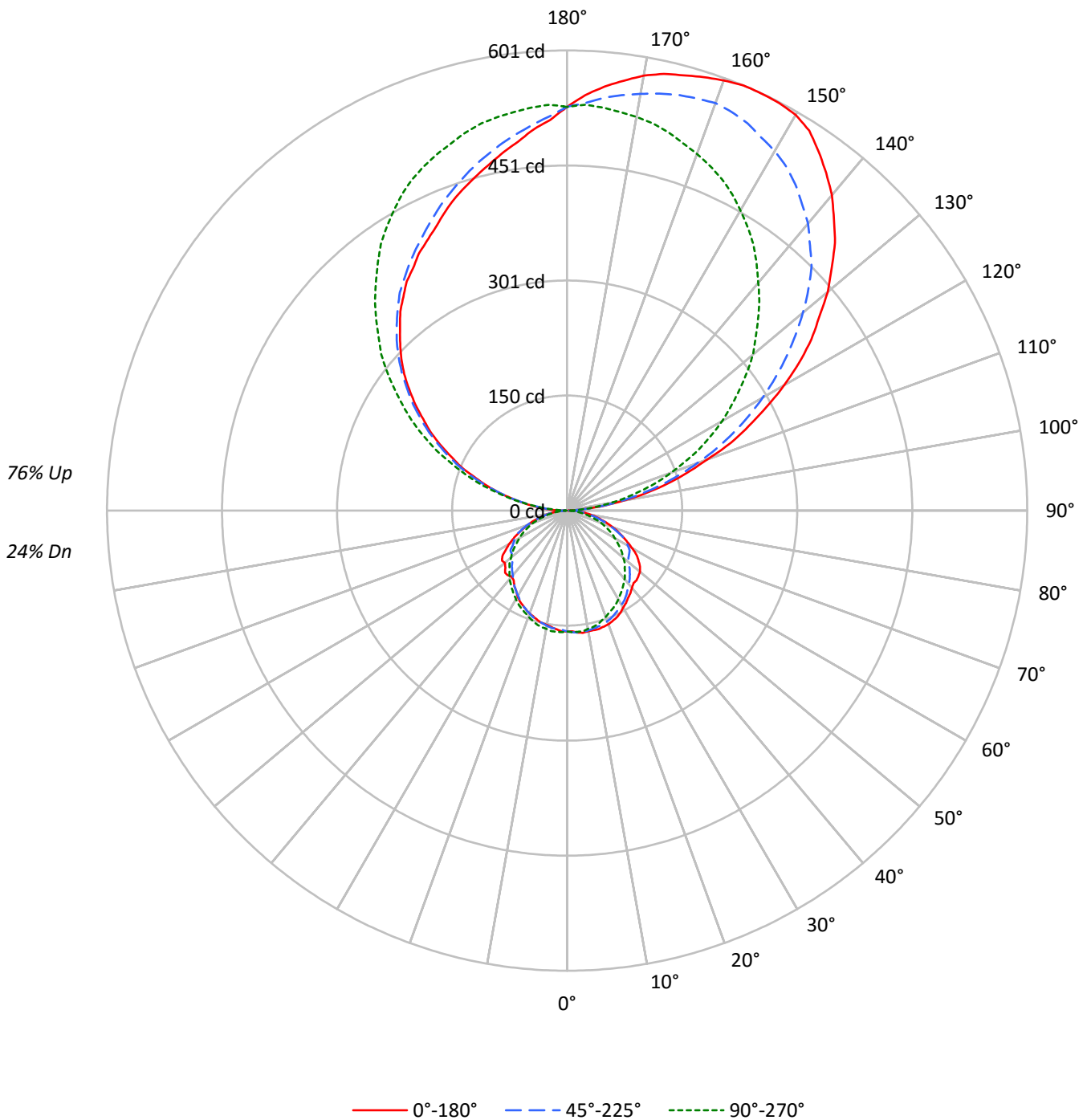
Input Watts (W): 17.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	32	32	32	24
1	92	87	84	80	81	78	75	72	60	58	56	43	42	41	28	27	26	19
2	83	76	70	65	74	68	63	58	52	49	46	38	35	33	24	23	22	16
3	76	67	59	54	67	59	53	48	46	41	38	33	30	28	21	20	18	13
4	69	59	51	45	61	52	46	41	40	36	32	29	26	24	19	17	16	11
5	63	52	44	38	56	46	40	35	36	31	27	26	23	20	17	15	13	10
6	58	46	38	33	51	41	35	30	32	27	24	23	20	18	15	13	12	8
7	53	42	34	29	47	37	31	26	29	24	21	21	18	15	14	12	10	7
8	49	38	30	25	44	34	27	23	26	21	18	19	16	14	13	11	9	7
9	46	34	27	22	41	31	24	20	24	19	16	18	14	12	12	10	8	6
10	43	31	24	19	38	28	22	18	22	17	14	16	13	11	11	9	7	5

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	2549	2549	2549
5°	2593	2575	2525
10°	2623	2571	2485
15°	2674	2569	2481
20°	2713	2533	2459
25°	2738	2512	2437
30°	2728	2493	2414
35°	2738	2470	2365
40°	2774	2462	2373
45°	2932	2427	2619
50°	3120	2406	2670
55°	3201	2370	2902
60°	3161	2312	2822
65°	3056	2292	2693
70°	2984	2238	2582
75°	2888	2034	2427
80°	2938	1860	2250
85°	3501	1760	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	0.7
10°-20°	43.3	2.1
20°-30°	65.9	3.1
30°-40°	79.8	3.8
40°-50°	86.0	4.1
50°-60°	84.7	4.0
60°-70°	68.9	3.3
70°-80°	42.7	2.0
80°-90°	15.0	0.7
90°-100°	30.3	1.4
100°-110°	114.4	5.4
110°-120°	202.2	9.6
120°-130°	265.3	12.6
130°-140°	292.6	13.9
140°-150°	278.8	13.2
150°-160°	226.1	10.7
160°-170°	145.8	6.9
170°-180°	50.1	2.4
0°-30°	124.2	5.9
0°-40°	204.0	9.7
0°-60°	374.8	17.8
0°-90°	501.3	23.8
90°-120°	346.8	16.5
90°-150°	1183.5	56.2
90°-180°	1606.0	76.2
0°-180°	2106.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	158	158	158	158	158	
5°	160	160	159	155	156	15
15°	160	157	154	148	148	45
25°	154	148	141	137	137	71
35°	139	135	125	120	120	87
45°	128	116	106	102	115	99
55°	114	99	84	90	103	101
65°	80	79	60	72	70	79
75°	46	44	33	39	39	49
85°	19	17	10	13	13	18
90°	1	1	1	2	2	3
95°	22	25	22	27	30	30
105°	136	124	100	93	94	142
115°	262	239	190	173	167	259
125°	389	349	275	247	242	346
135°	495	452	353	315	308	380
145°	573	520	424	370	365	358
155°	601	558	478	419	407	278
165°	588	562	512	466	454	167
175°	556	541	528	506	500	54
180°	527	527	527	527	527	



TEST NUMBER: P253615

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	157.9	157.9	157.9	157.9	157.9	157.9	157.9	157.9	157.9
2.5°	157.9	158.9	158.9	158.9	158.9	158.9	155.8	156.8	157.9
5°	160.0	160.0	160.0	158.9	158.9	157.9	154.7	155.8	155.8
7.5°	161.0	161.0	160.0	158.9	158.9	157.9	154.7	154.7	153.7
10°	160.0	161.0	158.9	158.9	156.8	155.8	152.6	152.6	151.6
12.5°	160.0	161.0	157.9	156.8	155.8	152.6	150.5	150.5	150.5
15°	160.0	161.0	156.8	155.8	153.7	150.5	148.4	148.4	148.4
17.5°	158.9	158.9	155.8	152.6	150.5	147.4	146.3	146.3	145.2
20°	157.9	157.9	153.7	150.5	147.4	144.2	143.1	143.1	143.1
22.5°	155.8	155.8	151.6	148.4	144.2	141.0	140.0	140.0	140.0
25°	153.7	152.6	148.4	145.2	141.0	137.9	136.8	135.8	136.8
27.5°	150.5	149.5	145.2	141.0	137.9	134.7	132.6	132.6	133.7
30°	146.3	146.3	142.1	137.9	133.7	130.5	128.4	128.4	129.5
32.5°	143.1	143.1	138.9	133.7	129.5	127.4	124.2	124.2	124.2
35°	138.9	138.9	134.7	129.5	125.3	122.1	120.0	120.0	120.0
37.5°	135.8	135.8	129.5	125.3	121.0	117.9	114.7	114.7	114.7
40°	131.6	130.5	125.3	121.0	116.8	113.7	110.5	110.5	112.6
42.5°	128.4	125.3	121.0	116.8	111.6	108.4	106.3	108.4	114.7
45°	128.4	122.1	115.8	111.6	106.3	103.1	102.1	109.5	114.7
47.5°	126.3	122.1	110.5	106.3	102.1	97.9	96.8	109.5	109.5
50°	124.2	120.0	104.2	100.0	95.8	92.6	92.6	104.2	106.3
52.5°	120.0	116.8	101.0	94.7	90.5	87.4	91.6	100.0	107.4
55°	113.7	112.6	98.9	88.4	84.2	81.0	90.5	101.0	103.1
57.5°	107.4	107.4	96.8	81.0	77.9	75.8	84.2	95.8	94.7
60°	97.9	98.9	91.6	75.8	71.6	69.5	80.0	87.4	87.4
62.5°	88.4	89.5	86.3	69.5	66.3	63.2	78.9	78.9	78.9
65°	80.0	80.0	78.9	63.2	60.0	56.8	71.6	70.5	70.5
67.5°	71.6	71.6	69.5	56.8	53.7	53.7	63.2	63.2	62.1
70°	63.2	63.2	61.0	52.6	47.4	49.5	55.8	54.7	54.7
72.5°	54.7	54.7	52.6	47.4	40.0	43.2	46.3	46.3	47.4
75°	46.3	47.4	44.2	41.0	32.6	38.9	38.9	38.9	38.9
77.5°	38.9	38.9	35.8	32.6	26.3	31.6	30.5	31.6	31.6
80°	31.6	31.6	29.5	25.3	20.0	24.2	24.2	24.2	24.2
82.5°	24.2	24.2	22.1	18.9	13.7	16.8	17.9	17.9	17.9
85°	18.9	18.9	16.8	12.6	9.5	10.5	12.6	12.6	12.6
87.5°	13.7	13.7	11.6	8.4	5.3	7.4	7.4	6.3	6.3
90°	1.1	1.1	1.1	1.1	1.1	1.1	2.1	1.1	2.1
92.5°	5.3	5.3	6.3	8.4	8.4	12.6	14.7	16.8	16.8
95°	22.1	23.2	25.3	24.2	22.1	25.3	27.4	29.5	29.5
97.5°	47.4	48.4	46.3	43.2	38.9	40.0	40.0	43.2	44.2
100°	74.7	73.7	70.5	66.3	58.9	56.8	55.8	57.9	57.9
102.5°	105.3	103.1	95.8	88.4	78.9	74.7	74.7	73.7	74.7
105°	135.8	132.6	124.2	111.6	100.0	95.8	92.6	91.6	93.7
107.5°	164.2	163.1	152.6	136.8	123.1	115.8	113.7	111.6	111.6
110°	193.7	191.6	181.0	161.0	144.2	136.8	133.7	130.5	129.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	231.6	225.2	210.5	188.4	166.3	158.9	153.7	150.5	150.5
115°	262.1	255.8	238.9	214.7	190.5	178.9	172.6	169.5	167.4
117.5°	293.7	287.3	267.3	240.0	211.6	200.0	191.6	190.5	187.3
120°	327.3	318.9	294.7	265.2	233.7	217.9	210.5	208.4	206.3
122.5°	358.9	348.4	322.1	288.4	253.7	235.8	228.4	226.3	223.1
125°	389.4	376.8	349.4	313.7	274.7	254.7	247.3	244.2	242.1
127.5°	414.7	406.3	375.8	336.8	295.8	272.6	264.2	261.0	260.0
130°	444.2	432.6	402.1	357.9	316.8	290.5	282.1	276.8	277.9
132.5°	468.4	458.9	427.3	380.0	333.7	307.3	298.9	293.7	293.7
135°	494.7	484.2	451.5	400.0	352.6	325.2	314.7	309.4	308.4
137.5°	515.7	507.3	469.4	418.9	371.5	341.0	329.4	325.2	323.1
140°	537.8	526.3	489.4	437.9	388.4	357.9	344.2	341.0	338.9
142.5°	555.7	543.1	504.2	454.7	406.3	373.6	358.9	355.8	351.5
145°	572.6	557.8	519.9	470.5	424.2	388.4	370.5	367.3	365.2
147.5°	588.4	571.5	532.6	484.2	438.9	403.1	383.1	380.0	374.7
150°	596.8	581.0	542.1	497.8	452.6	415.7	394.7	390.5	387.3
152.5°	599.9	588.4	549.4	509.4	466.3	430.5	406.3	401.0	396.8
155°	601.0	590.5	557.8	518.9	477.8	444.2	418.9	411.5	407.3
157.5°	601.0	589.4	563.1	526.3	487.3	455.7	431.5	423.1	420.0
160°	597.8	589.4	566.3	532.6	495.7	466.3	443.1	433.6	432.6
162.5°	593.6	587.3	564.2	536.8	503.1	476.8	454.7	445.2	443.1
165°	588.4	583.1	562.0	541.0	511.5	486.3	466.3	457.8	453.6
167.5°	584.2	577.8	557.8	541.0	517.8	495.7	476.8	470.5	464.2
170°	576.8	571.5	552.6	539.9	522.1	502.1	487.3	481.0	475.7
172.5°	566.3	562.0	547.3	538.9	525.2	509.4	496.8	492.6	486.3
175°	555.7	553.6	541.0	537.8	528.4	516.8	506.3	504.2	500.0
177.5°	543.1	542.1	532.6	534.7	530.5	522.1	515.7	516.8	510.5
180°	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3	527.3

(END OF REPORT)