

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: P253616

Luminaire Tested: **JW-WL-20L83050-1D-UNV-W2A-W-4 (4500K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253616  
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 (4500K)  
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4500K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2125.2 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

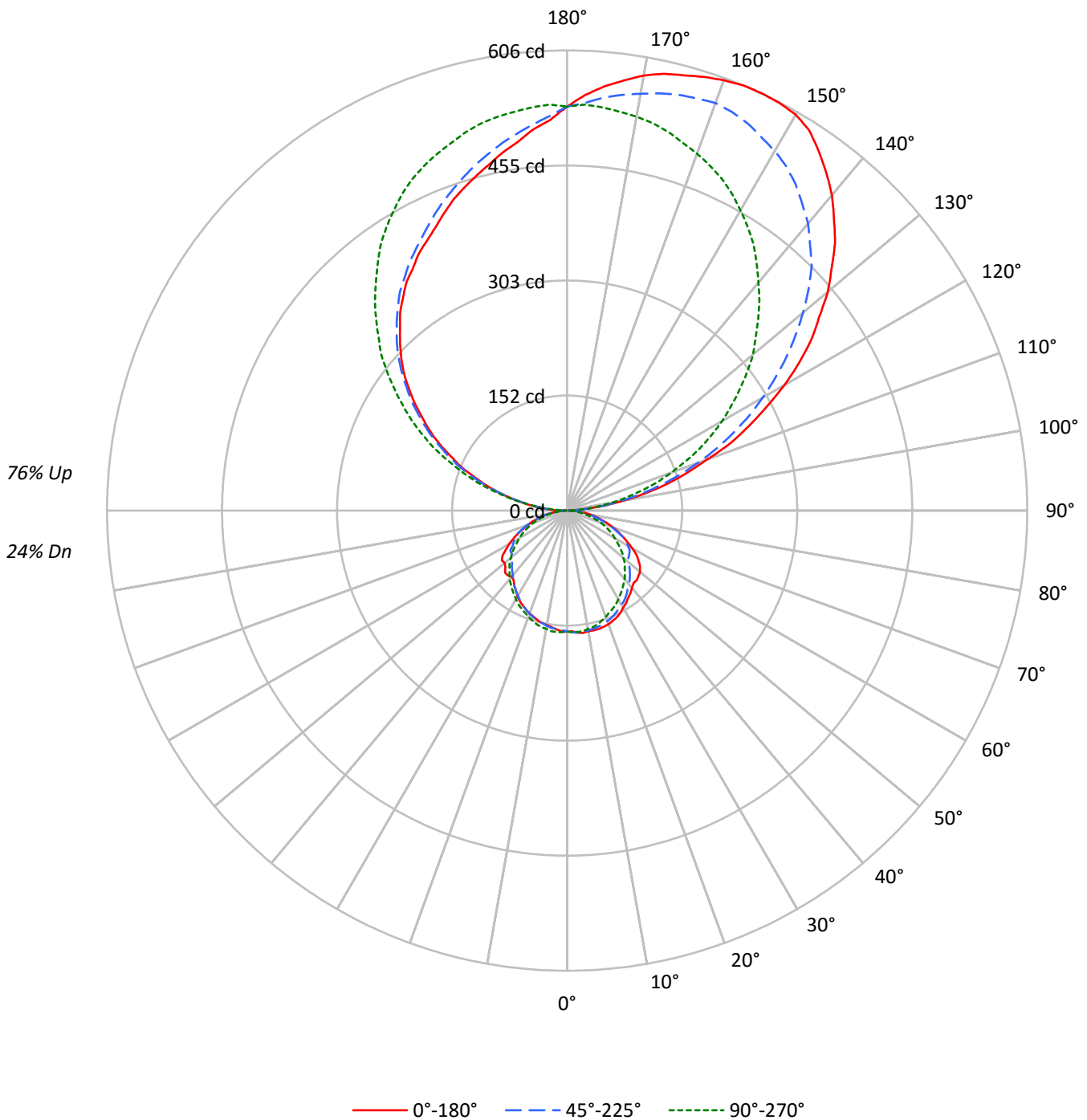
Input Watts (W): 18.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2572	2572	2572
5°	2616	2598	2546
10°	2646	2594	2507
15°	2698	2591	2502
20°	2737	2553	2481
25°	2761	2535	2458
30°	2752	2513	2435
35°	2761	2489	2385
40°	2797	2483	2394
45°	2957	2448	2642
50°	3147	2426	2693
55°	3229	2390	2928
60°	3187	2331	2845
65°	3083	2311	2716
70°	3007	2257	2606
75°	2913	2052	2452
80°	2966	1878	2269
85°	3538	1778	2353



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.2	0.7
10°-20°	43.7	2.1
20°-30°	66.4	3.1
30°-40°	80.5	3.8
40°-50°	86.8	4.1
50°-60°	85.4	4.0
60°-70°	69.5	3.3
70°-80°	43.0	2.0
80°-90°	15.1	0.7
90°-100°	30.5	1.4
100°-110°	115.4	5.4
110°-120°	203.9	9.6
120°-130°	267.6	12.6
130°-140°	295.2	13.9
140°-150°	281.3	13.2
150°-160°	228.1	10.7
160°-170°	147.1	6.9
170°-180°	50.6	2.4
0°-30°	125.3	5.9
0°-40°	205.8	9.7
0°-60°	378.0	17.8
0°-90°	505.6	23.8
90°-120°	349.8	16.5
90°-150°	1193.8	56.2
90°-180°	1620.0	76.2
0°-180°	2125.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	159	159	159	159	159	
5°	161	161	160	156	157	15
15°	161	158	155	150	150	46
25°	155	150	142	138	138	71
35°	140	136	126	121	121	88
45°	130	117	107	103	116	100
55°	115	100	85	91	104	102
65°	81	80	60	72	71	80
75°	47	45	33	39	39	50
85°	19	17	10	13	13	18
90°	1	1	1	2	2	3
95°	22	26	22	28	30	30
105°	137	125	101	93	94	143
115°	264	241	192	174	169	261
125°	393	352	277	250	244	349
135°	499	456	356	317	311	384
145°	578	524	428	374	368	361
155°	606	563	482	423	411	280
165°	594	567	516	470	458	169
175°	561	546	533	511	504	54
180°	532	532	532	532	532	



TEST NUMBER: P253616

CATALOG NUMBER: JW-WL-20L83050-1D-UNV-W2A-W-4 (4500K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3	159.3
2.5°	159.3	160.3	160.3	160.3	160.3	160.3	157.1	158.2	159.3
5°	161.4	161.4	161.4	160.3	160.3	159.3	156.1	157.1	157.1
7.5°	162.4	162.4	161.4	160.3	160.3	159.3	156.1	156.1	155.0
10°	161.4	162.4	160.3	160.3	158.2	157.1	153.9	153.9	152.9
12.5°	161.4	162.4	159.3	158.2	157.1	153.9	151.8	151.8	151.8
15°	161.4	162.4	158.2	157.1	155.0	151.8	149.7	149.7	149.7
17.5°	160.3	160.3	157.1	153.9	151.8	148.6	147.6	147.6	146.5
20°	159.3	159.3	155.0	151.8	148.6	145.5	144.4	144.4	144.4
22.5°	157.1	157.1	152.9	149.7	145.5	142.3	141.2	141.2	141.2
25°	155.0	153.9	149.7	146.5	142.3	139.1	138.0	137.0	138.0
27.5°	151.8	150.8	146.5	142.3	139.1	135.9	133.8	133.8	134.8
30°	147.6	147.6	143.3	139.1	134.8	131.7	129.5	129.5	130.6
32.5°	144.4	144.4	140.1	134.8	130.6	128.5	125.3	125.3	125.3
35°	140.1	140.1	135.9	130.6	126.3	123.2	121.0	121.0	121.0
37.5°	137.0	137.0	130.6	126.3	122.1	118.9	115.7	115.7	115.7
40°	132.7	131.7	126.3	122.1	117.8	114.7	111.5	111.5	113.6
42.5°	129.5	126.3	122.1	117.8	112.5	109.4	107.2	109.4	115.7
45°	129.5	123.2	116.8	112.5	107.2	104.0	103.0	110.4	115.7
47.5°	127.4	123.2	111.5	107.2	103.0	98.7	97.7	110.4	110.4
50°	125.3	121.0	105.1	100.9	96.6	93.4	93.4	105.1	107.2
52.5°	121.0	117.8	101.9	95.6	91.3	88.1	92.4	100.9	108.3
55°	114.7	113.6	99.8	89.2	84.9	81.8	91.3	101.9	104.0
57.5°	108.3	108.3	97.7	81.8	78.6	76.4	84.9	96.6	95.6
60°	98.7	99.8	92.4	76.4	72.2	70.1	80.7	88.1	88.1
62.5°	89.2	90.2	87.1	70.1	66.9	63.7	79.6	79.6	79.6
65°	80.7	80.7	79.6	63.7	60.5	57.3	72.2	71.1	71.1
67.5°	72.2	72.2	70.1	57.3	54.1	54.1	63.7	63.7	62.6
70°	63.7	63.7	61.6	53.1	47.8	49.9	56.3	55.2	55.2
72.5°	55.2	55.2	53.1	47.8	40.3	43.5	46.7	46.7	47.8
75°	46.7	47.8	44.6	41.4	32.9	39.3	39.3	39.3	39.3
77.5°	39.3	39.3	36.1	32.9	26.5	31.9	30.8	31.9	31.9
80°	31.9	31.9	29.7	25.5	20.2	24.4	24.4	24.4	24.4
82.5°	24.4	24.4	22.3	19.1	13.8	17.0	18.0	18.0	18.0
85°	19.1	19.1	17.0	12.7	9.6	10.6	12.7	12.7	12.7
87.5°	13.8	13.8	11.7	8.5	5.3	7.4	7.4	6.4	6.4
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	6.4	8.5	8.5	12.7	14.9	17.0	17.0
95°	22.3	23.4	25.5	24.4	22.3	25.5	27.6	29.7	29.7
97.5°	47.8	48.8	46.7	43.5	39.3	40.3	40.3	43.5	44.6
100°	75.4	74.3	71.1	66.9	59.5	57.3	56.3	58.4	58.4
102.5°	106.2	104.0	96.6	89.2	79.6	75.4	75.4	74.3	75.4
105°	137.0	133.8	125.3	112.5	100.9	96.6	93.4	92.4	94.5
107.5°	165.6	164.6	153.9	138.0	124.2	116.8	114.7	112.5	112.5
110°	195.4	193.2	182.6	162.4	145.5	138.0	134.8	131.7	130.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	233.6	227.2	212.3	190.0	167.7	160.3	155.0	151.8	151.8
115°	264.4	258.0	241.0	216.6	192.2	180.5	174.1	170.9	168.8
117.5°	296.2	289.8	269.7	242.1	213.4	201.7	193.2	192.2	189.0
120°	330.2	321.7	297.3	267.5	235.7	219.8	212.3	210.2	208.1
122.5°	362.0	351.4	324.9	290.9	255.9	237.8	230.4	228.3	225.1
125°	392.8	380.1	352.5	316.4	277.1	256.9	249.5	246.3	244.2
127.5°	418.3	409.8	379.0	339.7	298.3	275.0	266.5	263.3	262.2
130°	448.0	436.4	405.6	361.0	319.6	293.0	284.5	279.2	280.3
132.5°	472.5	462.9	431.0	383.3	336.6	310.0	301.5	296.2	296.2
135°	499.0	488.4	455.5	403.4	355.7	328.1	317.4	312.1	311.1
137.5°	520.2	511.7	473.5	422.6	374.8	344.0	332.3	328.1	325.9
140°	542.5	530.8	493.7	441.7	391.8	361.0	347.2	344.0	341.9
142.5°	560.6	547.8	508.6	458.7	409.8	376.9	362.0	358.9	354.6
145°	577.6	562.7	524.5	474.6	427.9	391.8	373.7	370.5	368.4
147.5°	593.5	576.5	537.2	488.4	442.7	406.6	386.5	383.3	378.0
150°	602.0	586.1	546.8	502.2	456.5	419.4	398.1	393.9	390.7
152.5°	605.2	593.5	554.2	513.9	470.3	434.2	409.8	404.5	400.3
155°	606.2	595.6	562.7	523.4	482.0	448.0	422.6	415.1	410.9
157.5°	606.2	594.6	568.0	530.8	491.6	459.7	435.3	426.8	423.6
160°	603.0	594.6	571.2	537.2	500.1	470.3	447.0	437.4	436.4
162.5°	598.8	592.4	569.1	541.5	507.5	480.9	458.7	449.1	447.0
165°	593.5	588.2	566.9	545.7	516.0	490.5	470.3	461.8	457.6
167.5°	589.2	582.9	562.7	545.7	522.4	500.1	480.9	474.6	468.2
170°	581.8	576.5	557.4	544.7	526.6	506.4	491.6	485.2	479.9
172.5°	571.2	566.9	552.1	543.6	529.8	513.9	501.1	496.9	490.5
175°	560.6	558.5	545.7	542.5	533.0	521.3	510.7	508.6	504.3
177.5°	547.8	546.8	537.2	539.3	535.1	526.6	520.2	521.3	514.9
180°	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9	531.9

(END OF REPORT)