

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: P253620

Luminaire Tested: **JW-WL-20L93050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253620  
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-20L93050-1D-UNV-W2A-W-4 (4000K)  
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.  
3000K-5000K CCT VividTune LIGHT ENGINE.  
Light Source: (168) 3000K-5000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT.  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1838.6 lumens  
Efficiency: N/A  
Efficacy: 102.1 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

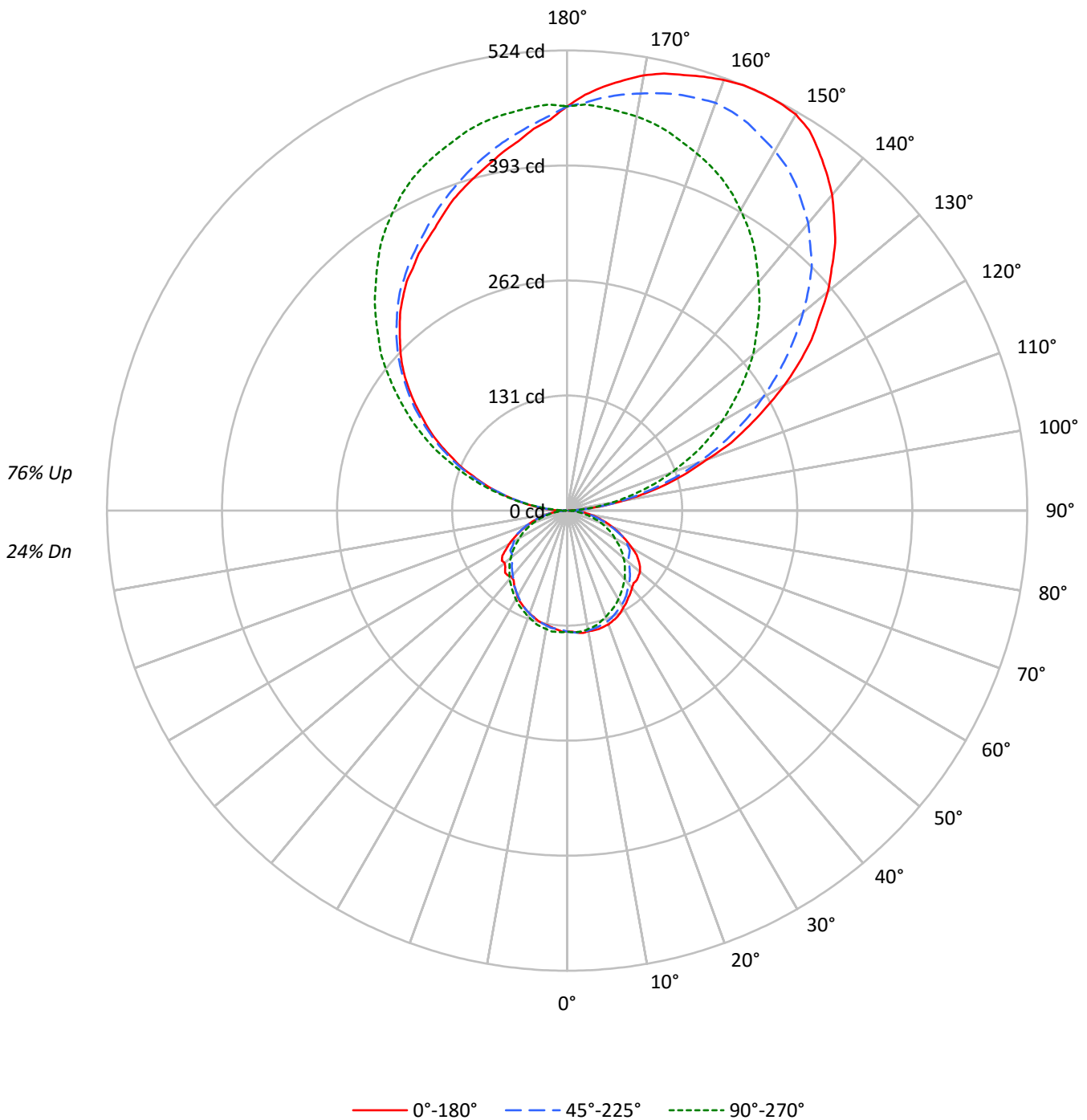
Input Watts (W): 18  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2225	2225	2225
5°	2263	2248	2203
10°	2289	2244	2169
15°	2333	2242	2165
20°	2368	2210	2146
25°	2389	2193	2127
30°	2381	2176	2107
35°	2389	2154	2064
40°	2420	2150	2072
45°	2560	2119	2286
50°	2723	2100	2331
55°	2792	2069	2533
60°	2758	2018	2461
65°	2667	2002	2350
70°	2601	1950	2257
75°	2520	1778	2121
80°	2566	1627	1962
85°	3057	1538	2038



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.1	0.7
10°-20°	37.8	2.1
20°-30°	57.5	3.1
30°-40°	69.7	3.8
40°-50°	75.1	4.1
50°-60°	73.9	4.0
60°-70°	60.1	3.3
70°-80°	37.2	2.0
80°-90°	13.1	0.7
90°-100°	26.4	1.4
100°-110°	99.8	5.4
110°-120°	176.4	9.6
120°-130°	231.5	12.6
130°-140°	255.4	13.9
140°-150°	243.3	13.2
150°-160°	197.3	10.7
160°-170°	127.2	6.9
170°-180°	43.8	2.4
0°-30°	108.4	5.9
0°-40°	178.0	9.7
0°-60°	327.0	17.8
0°-90°	437.4	23.8
90°-120°	302.7	16.5
90°-150°	1032.8	56.2
90°-180°	1401.0	76.2
0°-180°	1838.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	138	138	138	138	138	
5°	140	140	139	135	136	13
15°	140	137	134	130	130	39
25°	134	130	123	119	119	62
35°	121	118	109	105	105	76
45°	112	101	93	89	100	86
55°	99	86	74	79	90	88
65°	70	69	52	62	62	69
75°	40	39	28	34	34	43
85°	16	15	8	11	11	16
90°	1	1	1	2	2	3
95°	19	22	19	24	26	26
105°	118	108	87	81	82	124
115°	229	208	166	151	146	226
125°	340	305	240	216	211	302
135°	432	394	308	275	269	332
145°	500	454	370	323	319	312
155°	524	487	417	366	356	242
165°	513	490	446	407	396	146
175°	485	472	461	442	436	47
180°	460	460	460	460	460	



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CATALOG NUMBER: JW-WL-20L93050-1D-UNV-W2A-W-4 (4000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8	137.8
2.5°	137.8	138.7	138.7	138.7	138.7	138.7	135.9	136.9	137.8
5°	139.6	139.6	139.6	138.7	138.7	137.8	135.0	135.9	135.9
7.5°	140.5	140.5	139.6	138.7	138.7	137.8	135.0	135.0	134.1
10°	139.6	140.5	138.7	138.7	136.9	135.9	133.2	133.2	132.3
12.5°	139.6	140.5	137.8	136.9	135.9	133.2	131.3	131.3	131.3
15°	139.6	140.5	136.9	135.9	134.1	131.3	129.5	129.5	129.5
17.5°	138.7	138.7	135.9	133.2	131.3	128.6	127.7	127.7	126.8
20°	137.8	137.8	134.1	131.3	128.6	125.8	124.9	124.9	124.9
22.5°	135.9	135.9	132.3	129.5	125.8	123.1	122.2	122.2	122.2
25°	134.1	133.2	129.5	126.8	123.1	120.3	119.4	118.5	119.4
27.5°	131.3	130.4	126.8	123.1	120.3	117.6	115.7	115.7	116.7
30°	127.7	127.7	124.0	120.3	116.7	113.9	112.1	112.1	113.0
32.5°	124.9	124.9	121.2	116.7	113.0	111.1	108.4	108.4	108.4
35°	121.2	121.2	117.6	113.0	109.3	106.5	104.7	104.7	104.7
37.5°	118.5	118.5	113.0	109.3	105.6	102.9	100.1	100.1	100.1
40°	114.8	113.9	109.3	105.6	102.0	99.2	96.4	96.4	98.3
42.5°	112.1	109.3	105.6	102.0	97.4	94.6	92.8	94.6	100.1
45°	112.1	106.5	101.0	97.4	92.8	90.0	89.1	95.5	100.1
47.5°	110.2	106.5	96.4	92.8	89.1	85.4	84.5	95.5	95.5
50°	108.4	104.7	90.9	87.3	83.6	80.8	80.8	90.9	92.8
52.5°	104.7	102.0	88.2	82.7	79.0	76.2	79.9	87.3	93.7
55°	99.2	98.3	86.3	77.2	73.5	70.7	79.0	88.2	90.0
57.5°	93.7	93.7	84.5	70.7	68.0	66.1	73.5	83.6	82.7
60°	85.4	86.3	79.9	66.1	62.5	60.6	69.8	76.2	76.2
62.5°	77.2	78.1	75.3	60.6	57.9	55.1	68.9	68.9	68.9
65°	69.8	69.8	68.9	55.1	52.4	49.6	62.5	61.5	61.5
67.5°	62.5	62.5	60.6	49.6	46.8	46.8	55.1	55.1	54.2
70°	55.1	55.1	53.3	45.9	41.3	43.2	48.7	47.8	47.8
72.5°	47.8	47.8	45.9	41.3	34.9	37.7	40.4	40.4	41.3
75°	40.4	41.3	38.6	35.8	28.5	34.0	34.0	34.0	34.0
77.5°	34.0	34.0	31.2	28.5	23.0	27.6	26.6	27.6	27.6
80°	27.6	27.6	25.7	22.0	17.5	21.1	21.1	21.1	21.1
82.5°	21.1	21.1	19.3	16.5	11.9	14.7	15.6	15.6	15.6
85°	16.5	16.5	14.7	11.0	8.3	9.2	11.0	11.0	11.0
87.5°	11.9	11.9	10.1	7.3	4.6	6.4	6.4	5.5	5.5
90°	0.9	0.9	0.9	0.9	0.9	0.9	1.8	0.9	1.8
92.5°	4.6	4.6	5.5	7.3	7.3	11.0	12.9	14.7	14.7
95°	19.3	20.2	22.0	21.1	19.3	22.0	23.9	25.7	25.7
97.5°	41.3	42.3	40.4	37.7	34.0	34.9	34.9	37.7	38.6
100°	65.2	64.3	61.5	57.9	51.4	49.6	48.7	50.5	50.5
102.5°	91.9	90.0	83.6	77.2	68.9	65.2	65.2	64.3	65.2
105°	118.5	115.7	108.4	97.4	87.3	83.6	80.8	79.9	81.7
107.5°	143.3	142.4	133.2	119.4	107.5	101.0	99.2	97.4	97.4
110°	169.0	167.2	158.0	140.5	125.8	119.4	116.7	113.9	113.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	202.1	196.6	183.7	164.4	145.1	138.7	134.1	131.3	131.3
115°	228.7	223.2	208.5	187.4	166.3	156.1	150.6	147.9	146.0
117.5°	256.3	250.8	233.3	209.4	184.6	174.5	167.2	166.3	163.5
120°	285.7	278.3	257.2	231.5	203.9	190.1	183.7	181.9	180.0
122.5°	313.2	304.0	281.1	251.7	221.4	205.7	199.3	197.5	194.7
125°	339.8	328.8	304.9	273.7	239.7	222.3	215.9	213.1	211.3
127.5°	361.9	354.5	327.9	293.9	258.1	237.9	230.5	227.8	226.9
130°	387.6	377.5	350.9	312.3	276.5	253.5	246.2	241.6	242.5
132.5°	408.7	400.5	372.9	331.6	291.2	268.2	260.9	256.3	256.3
135°	431.7	422.5	394.0	349.0	307.7	283.8	274.6	270.0	269.1
137.5°	450.1	442.7	409.7	365.6	324.2	297.6	287.5	283.8	282.0
140°	469.4	459.3	427.1	382.1	338.9	312.3	300.4	297.6	295.8
142.5°	485.0	474.0	440.0	396.8	354.5	326.1	313.2	310.5	306.8
145°	499.7	486.8	453.7	410.6	370.2	338.9	323.3	320.6	318.7
147.5°	513.4	498.8	464.8	422.5	383.0	351.8	334.3	331.6	327.0
150°	520.8	507.0	473.0	434.5	395.0	362.8	344.4	340.8	338.0
152.5°	523.6	513.4	479.5	444.6	406.9	375.7	354.5	350.0	346.3
155°	524.5	515.3	486.8	452.8	417.0	387.6	365.6	359.1	355.5
157.5°	524.5	514.4	491.4	459.3	425.3	397.7	376.6	369.2	366.5
160°	521.7	514.4	494.2	464.8	432.6	406.9	386.7	378.4	377.5
162.5°	518.0	512.5	492.3	468.4	439.0	416.1	396.8	388.5	386.7
165°	513.4	508.9	490.5	472.1	446.4	424.4	406.9	399.6	395.9
167.5°	509.8	504.3	486.8	472.1	451.9	432.6	416.1	410.6	405.1
170°	503.3	498.8	482.2	471.2	455.6	438.1	425.3	419.8	415.2
172.5°	494.2	490.5	477.6	470.3	458.3	444.6	433.5	429.9	424.4
175°	485.0	483.1	472.1	469.4	461.1	451.0	441.8	440.0	436.3
177.5°	474.0	473.0	464.8	466.6	462.9	455.6	450.1	451.0	445.5
180°	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2	460.2

(END OF REPORT)