

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: P253361

Luminaire Tested: **JW-WL-20L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253361  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1707-177-20-R2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: JW-WL-20L840-1D-UNV-STD-W-4  
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.  
Light Source: (112) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2026.1 lumens  
Efficiency: N/A  
Efficacy: 125.1 lumens/watt  
Spacing Criteria (0/90/45): 1.56 / 1.29 / 1.55  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

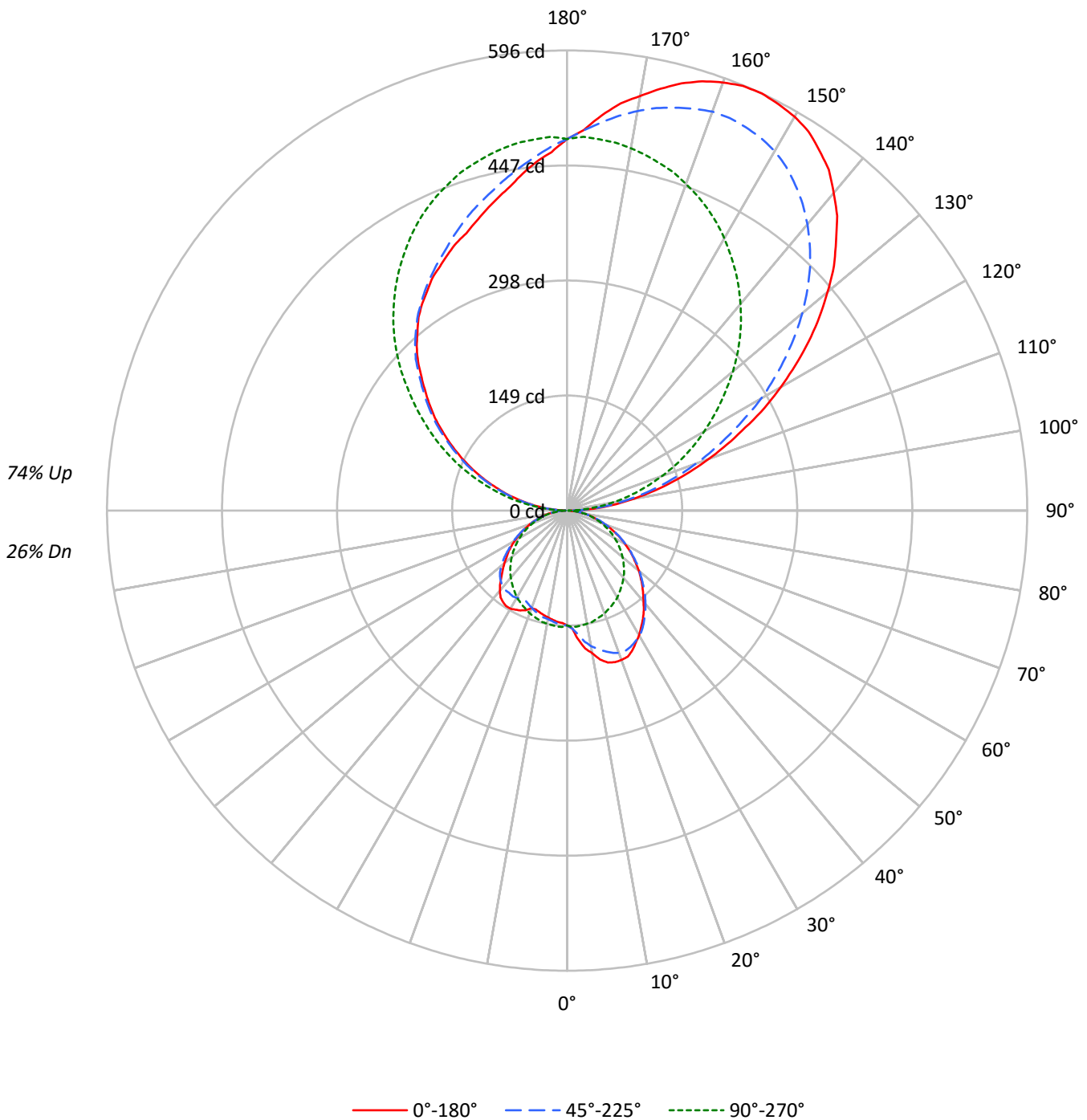
Input Watts (W): 16.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	70	70	70	51	51	51	34	34	34	26				
1	92	88	84	81	82	79	75	72	61	59	57	45	43	42	30	29	28	22				
2	84	77	71	66	74	68	63	59	53	50	47	39	37	35	26	25	24	18				
3	76	67	60	54	68	60	54	49	47	42	39	34	32	29	23	21	20	15				
4	70	59	51	46	62	53	46	41	41	37	33	30	27	25	20	18	17	13				
5	64	52	45	39	56	47	40	35	37	32	28	27	24	21	18	16	15	11				
6	58	47	39	33	52	42	35	30	33	28	24	24	21	18	16	14	13	9				
7	54	42	34	29	48	38	31	26	30	25	21	22	19	16	15	13	11	8				
8	50	38	30	25	44	34	28	23	27	22	19	20	17	14	14	12	10	7				
9	46	34	27	22	41	31	25	20	24	20	16	18	15	13	13	10	9	7				
10	43	31	24	20	38	28	22	18	22	18	15	17	14	11	12	9	8	6				

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	2403	2403	2403
5°	2726	2444	2345
10°	3074	2440	2307
15°	3407	2435	2283
20°	3538	2435	2311
25°	3559	2425	2542
30°	3477	2424	2737
35°	3374	2401	2852
40°	3244	2394	2858
45°	3142	2375	2747
50°	3047	2356	2663
55°	2928	2325	2609
60°	2796	2286	2535
65°	2648	2258	2491
70°	2455	2214	2408
75°	2289	2165	2352
80°	1990	2129	2371
85°	1890	2075	2649



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.8	0.7
10°-20°	45.6	2.2
20°-30°	73.1	3.6
30°-40°	91.8	4.5
40°-50°	96.0	4.7
50°-60°	86.6	4.3
60°-70°	66.5	3.3
70°-80°	39.4	1.9
80°-90°	14.2	0.7
90°-100°	34.1	1.7
100°-110°	108.9	5.4
110°-120°	184.8	9.1
120°-130°	244.7	12.1
130°-140°	273.1	13.5
140°-150°	261.0	12.9
150°-160°	210.8	10.4
160°-170°	134.9	6.7
170°-180°	46.0	2.3
0°-30°	133.4	6.6
0°-40°	225.2	11.1
0°-60°	407.9	20.1
0°-90°	528.0	26.1
90°-120°	327.8	16.2
90°-150°	1106.5	54.6
90°-180°	1498.0	73.9
0°-180°	2026.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	149	149	149	149	149	
5°	168	161	151	147	145	17
15°	204	189	146	139	137	57
25°	200	195	136	128	143	92
35°	171	174	122	130	145	107
45°	138	140	104	123	120	106
55°	104	105	83	96	93	93
65°	69	71	59	65	65	69
75°	37	38	35	37	38	38
85°	10	11	11	13	14	10
90°	4	3	2	2	2	5
95°	42	37	28	22	21	44
105°	139	126	94	81	80	147
115°	255	231	168	146	143	253
125°	382	345	242	212	209	341
135°	492	445	316	277	273	380
145°	570	515	380	329	327	356
155°	596	548	431	372	366	275
165°	573	540	465	417	404	162
175°	514	504	483	461	454	50
180°	481	481	481	481	481	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	152.9	154.4	152.9	150.3	150.8	148.3	148.3	147.3	145.7
5°	168.2	166.6	161.0	151.9	150.8	147.3	146.8	145.7	144.7
7.5°	180.4	178.4	170.7	155.4	149.8	146.3	144.7	143.7	142.7
10°	187.5	186.0	178.4	159.5	148.8	144.7	142.7	141.7	140.7
12.5°	197.7	194.2	183.5	163.6	147.8	142.7	141.7	139.6	138.6
15°	203.8	201.8	188.6	166.6	145.7	140.7	139.1	137.6	136.6
17.5°	205.9	204.9	193.1	169.2	143.7	138.6	137.1	135.0	134.5
20°	205.9	204.9	196.2	169.2	141.7	135.6	134.0	133.0	134.5
22.5°	204.9	203.3	196.7	168.7	138.6	133.0	131.0	135.0	139.6
25°	199.8	200.8	194.7	167.7	136.1	130.0	128.4	140.1	142.7
27.5°	192.6	195.2	191.1	167.2	133.0	126.9	128.4	140.7	144.7
30°	186.5	187.5	188.0	166.1	130.0	123.3	130.5	142.7	146.8
32.5°	178.4	179.4	181.4	163.6	125.9	119.8	131.5	143.7	146.8
35°	171.2	172.2	173.8	160.5	121.8	116.2	130.5	142.2	144.7
37.5°	163.1	164.1	166.1	155.9	117.7	112.1	130.5	139.1	141.7
40°	153.9	155.4	157.5	150.8	113.6	107.5	129.4	136.1	135.6
42.5°	145.7	146.3	149.3	145.2	109.1	104.0	126.4	129.4	128.4
45°	137.6	138.1	140.1	138.6	104.0	101.4	122.8	121.8	120.3
47.5°	129.4	128.9	131.0	132.5	98.9	99.4	118.2	114.2	113.1
50°	121.3	120.8	122.3	124.9	93.8	96.8	111.1	107.0	106.0
52.5°	112.1	112.6	114.2	115.7	88.2	92.7	104.0	99.9	98.9
55°	104.0	104.0	105.0	106.5	82.6	89.7	95.8	92.7	92.7
57.5°	95.8	95.8	96.3	97.8	77.0	85.6	87.7	86.1	85.6
60°	86.6	87.1	87.7	89.7	70.8	81.0	80.5	79.0	78.5
62.5°	78.5	78.5	79.0	80.5	65.7	74.9	73.4	71.9	71.3
65°	69.3	70.3	70.8	72.9	59.1	68.8	65.2	65.2	65.2
67.5°	61.2	61.2	61.7	63.7	53.0	60.1	58.1	58.1	57.1
70°	52.0	53.0	53.0	55.0	46.9	52.0	51.0	51.5	51.0
72.5°	43.8	44.8	45.4	46.4	40.8	44.8	43.8	43.8	44.8
75°	36.7	36.7	37.7	38.2	34.7	37.2	37.2	37.7	37.7
77.5°	28.5	29.6	29.6	31.6	29.0	30.6	30.6	31.6	31.6
80°	21.4	22.4	22.4	25.5	22.9	24.0	24.5	25.5	25.5
82.5°	15.3	16.3	16.3	21.4	16.8	18.3	18.9	19.4	19.4
85°	10.2	10.2	11.2	16.3	11.2	12.7	13.2	14.3	14.3
87.5°	4.1	5.1	6.1	12.2	6.6	8.7	8.7	8.2	8.2
90°	4.1	4.1	3.1	8.2	1.5	2.5	2.0	2.0	2.0
92.5°	22.4	21.4	17.8	21.4	12.2	11.7	9.2	8.7	9.2
95°	41.8	40.8	37.2	34.7	27.5	24.0	21.9	21.4	21.4
97.5°	64.2	62.7	57.1	53.0	42.8	38.2	35.7	34.1	34.7
100°	86.6	85.1	79.0	72.4	59.6	53.5	49.9	48.4	48.9
102.5°	112.1	110.1	101.9	91.2	77.0	68.8	65.7	63.2	62.2
105°	138.6	135.6	125.9	112.6	94.3	85.6	81.0	78.5	79.5
107.5°	166.1	162.6	151.4	133.0	112.1	102.4	97.3	94.8	93.8
110°	194.7	190.6	177.3	155.4	130.5	118.7	112.6	110.6	110.1



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	224.2	219.6	203.8	178.9	149.8	135.6	130.0	126.9	126.4
115°	254.8	248.7	231.4	201.3	168.2	153.4	146.3	143.2	142.7
117.5°	288.4	281.3	259.9	224.7	187.0	170.2	162.6	159.5	159.0
120°	319.0	311.9	290.5	247.7	204.9	186.5	179.4	175.8	175.3
122.5°	350.6	343.0	317.5	273.7	223.2	202.8	196.2	192.1	191.6
125°	382.2	372.5	345.0	298.1	242.1	218.1	212.5	208.4	208.9
127.5°	411.8	401.1	372.0	320.0	260.4	233.4	228.3	224.7	224.2
130°	440.3	429.6	397.5	341.4	280.3	248.7	244.1	240.0	239.5
132.5°	468.8	456.1	422.0	361.8	298.6	265.5	259.9	255.8	255.8
135°	492.3	481.6	444.9	382.2	316.5	280.3	277.2	273.2	273.2
137.5°	517.8	504.5	465.3	400.0	333.3	295.1	291.5	288.4	288.4
140°	537.1	523.9	484.1	416.9	349.1	309.3	304.7	301.2	301.7
142.5°	556.5	541.7	500.9	432.7	364.9	324.1	318.0	314.9	316.0
145°	569.7	556.0	515.2	446.4	379.7	337.9	329.2	326.7	327.2
147.5°	582.0	567.7	528.0	458.7	393.4	351.1	340.9	337.9	337.4
150°	589.1	575.9	537.6	469.4	407.2	364.4	351.6	347.0	348.6
152.5°	593.2	581.0	543.8	478.5	419.9	377.6	362.3	357.2	356.7
155°	596.2	583.0	547.8	486.2	431.1	389.9	372.5	366.4	365.9
157.5°	595.2	583.0	550.4	491.8	441.3	401.6	384.8	374.6	375.1
160°	590.1	579.4	549.9	496.9	450.0	412.8	396.0	383.7	382.2
162.5°	583.0	574.3	545.8	499.4	459.2	424.0	407.2	396.0	392.4
165°	572.8	565.2	540.2	499.4	465.3	433.7	417.4	406.7	403.6
167.5°	559.6	552.9	534.1	499.4	471.4	442.9	428.1	416.9	414.8
170°	545.3	540.7	525.4	496.4	476.5	451.5	439.3	428.6	426.0
172.5°	532.0	527.4	515.7	493.3	480.6	460.7	450.0	440.8	440.3
175°	513.7	511.1	504.5	489.2	482.6	467.3	460.7	453.6	453.6
177.5°	493.3	495.3	492.8	485.2	484.6	474.4	471.9	466.8	464.8
180°	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1	481.1

(END OF REPORT)