

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: P253363

Luminaire Tested: **JW-WL-40L840-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P253363  
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-40L840-1D-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: 4076.2 lumens  
Efficiency: N/A  
Efficacy: 114.2 lumens/watt  
Spacing Criteria (0/90/45): 1.55 / 1.29 / 1.55  
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')  
CIE Type: Semi-Indirect

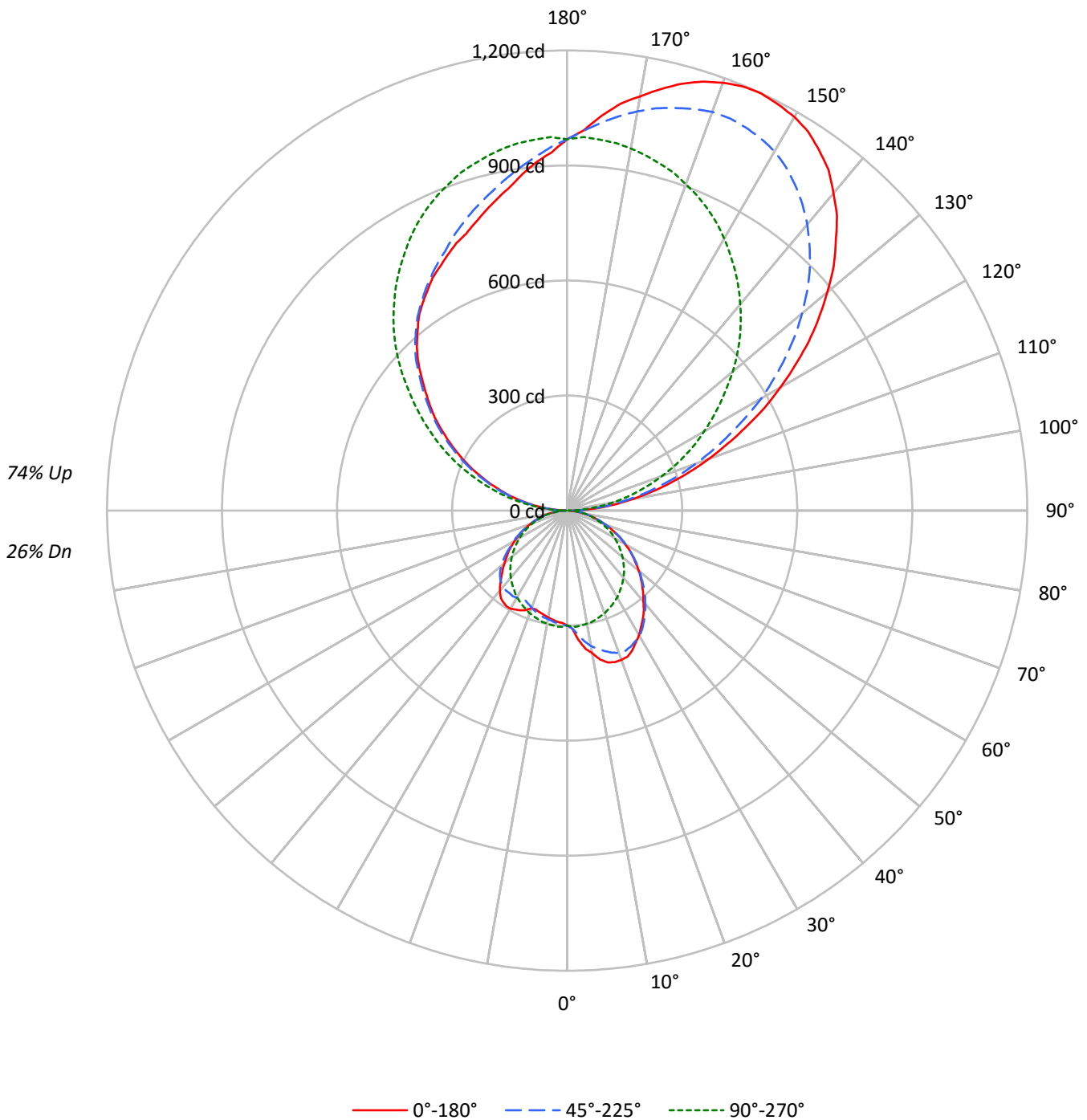
Input Watts (W): 35.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P253363

CATALOG NUMBER: JW-WL-40L840-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P253363

CATALOG NUMBER: JW-WL-40L840-1D-UNV-STD-W-4

**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	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°	4834	4834	4834
5°	5483	4919	4720
10°	6186	4909	4640
15°	6855	4901	4593
20°	7117	4897	4651
25°	7160	4876	5115
30°	6995	4873	5505
35°	6790	4829	5740
40°	6525	4818	5748
45°	6320	4777	5526
50°	6129	4737	5358
55°	5889	4676	5253
60°	5628	4602	5099
65°	5326	4542	5012
70°	4938	4452	4839
75°	4604	4348	4735
80°	4007	4286	4770
85°	3798	4187	5317



TEST NUMBER: P253363

CATALOG NUMBER: JW-WL-40L840-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.8	0.7
10°-20°	91.7	2.2
20°-30°	147.0	3.6
30°-40°	184.6	4.5
40°-50°	193.2	4.7
50°-60°	174.3	4.3
60°-70°	133.7	3.3
70°-80°	79.3	1.9
80°-90°	28.5	0.7
90°-100°	68.5	1.7
100°-110°	219.1	5.4
110°-120°	371.8	9.1
120°-130°	492.2	12.1
130°-140°	549.4	13.5
140°-150°	525.0	12.9
150°-160°	424.2	10.4
160°-170°	271.3	6.7
170°-180°	92.4	2.3
0°-30°	268.4	6.6
0°-40°	453.1	11.1
0°-60°	820.6	20.1
0°-90°	1062.1	26.1
90°-120°	659.4	16.2
90°-150°	2226.1	54.6
90°-180°	3014.0	73.9
0°-180°	4076.2	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	299	299	299	299	299	
5°	338	324	304	295	291	34
15°	410	379	293	280	275	115
25°	402	392	274	258	287	184
35°	344	350	245	262	291	215
45°	277	282	209	247	242	214
55°	209	211	166	193	187	187
65°	139	142	119	131	131	138
75°	74	76	70	75	76	77
85°	20	23	23	27	29	21
90°	8	6	3	4	4	10
95°	84	75	55	44	43	88
105°	279	253	190	163	160	296
115°	513	466	338	294	287	510
125°	769	694	487	428	420	686
135°	990	895	637	558	550	764
145°	1146	1036	764	662	658	716
155°	1200	1102	867	750	736	553
165°	1152	1087	936	840	812	327
175°	1034	1015	971	927	912	101
180°	968	968	968	968	968	



TEST NUMBER: P253363

CATALOG NUMBER: JW-WL-40L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4	299.4
2.5°	307.6	310.7	307.6	302.5	303.5	298.4	298.4	296.3	293.2
5°	338.3	335.3	324.0	305.5	303.5	296.3	295.3	293.2	291.2
7.5°	362.9	358.8	343.5	312.7	301.4	294.3	291.2	289.1	287.1
10°	377.3	374.2	358.8	320.9	299.4	291.2	287.1	285.0	283.0
12.5°	397.8	390.6	369.1	329.1	297.3	287.1	285.0	280.9	278.9
15°	410.1	406.0	379.3	335.3	293.2	283.0	279.9	276.8	274.8
17.5°	414.2	412.2	388.6	340.4	289.1	278.9	275.8	271.7	270.7
20°	414.2	412.2	394.7	340.4	285.0	272.7	269.6	267.6	270.7
22.5°	412.2	409.1	395.8	339.4	278.9	267.6	263.5	271.7	280.9
25°	401.9	404.0	391.7	337.3	273.7	261.4	258.4	281.9	287.1
27.5°	387.5	392.7	384.5	336.3	267.6	255.3	258.4	283.0	291.2
30°	375.2	377.3	378.3	334.2	261.4	248.1	262.5	287.1	295.3
32.5°	358.8	360.9	365.0	329.1	253.2	240.9	264.5	289.1	295.3
35°	344.5	346.5	349.6	323.0	245.0	233.8	262.5	286.0	291.2
37.5°	328.1	330.1	334.2	313.7	236.8	225.6	262.5	279.9	285.0
40°	309.6	312.7	316.8	303.5	228.6	216.3	260.4	273.7	272.7
42.5°	293.2	294.3	300.4	292.2	219.4	209.2	254.3	260.4	258.4
45°	276.8	277.8	281.9	278.9	209.2	204.0	247.1	245.0	242.0
47.5°	260.4	259.4	263.5	266.6	198.9	199.9	237.9	229.7	227.6
50°	244.0	243.0	246.1	251.2	188.6	194.8	223.5	215.3	213.3
52.5°	225.6	226.6	229.7	232.7	177.4	186.6	209.2	201.0	198.9
55°	209.2	209.2	211.2	214.3	166.1	180.4	192.7	186.6	186.6
57.5°	192.7	192.7	193.8	196.9	154.8	172.2	176.3	173.3	172.2
60°	174.3	175.3	176.3	180.4	142.5	163.0	162.0	158.9	157.9
62.5°	157.9	157.9	158.9	162.0	132.3	150.7	147.6	144.6	143.5
65°	139.4	141.5	142.5	146.6	118.9	138.4	131.2	131.2	131.2
67.5°	123.0	123.0	124.1	128.2	106.6	121.0	116.9	116.9	114.8
70°	104.6	106.6	106.6	110.7	94.3	104.6	102.5	103.6	102.5
72.5°	88.2	90.2	91.2	93.3	82.0	90.2	88.2	88.2	90.2
75°	73.8	73.8	75.9	76.9	69.7	74.8	74.8	75.9	75.9
77.5°	57.4	59.5	59.5	63.6	58.4	61.5	61.5	63.6	63.6
80°	43.1	45.1	45.1	51.3	46.1	48.2	49.2	51.3	51.3
82.5°	30.8	32.8	32.8	43.1	33.8	36.9	37.9	39.0	39.0
85°	20.5	20.5	22.6	32.8	22.6	25.6	26.7	28.7	28.7
87.5°	8.2	10.3	12.3	24.6	13.3	17.4	17.4	16.4	16.4
90°	8.2	8.2	6.2	16.4	3.1	5.1	4.1	4.1	4.1
92.5°	45.1	43.1	35.9	43.1	24.6	23.6	18.5	17.4	18.5
95°	84.1	82.0	74.8	69.7	55.4	48.2	44.1	43.1	43.1
97.5°	129.2	126.1	114.8	106.6	86.1	76.9	71.8	68.7	69.7
100°	174.3	171.2	158.9	145.6	120.0	107.7	100.5	97.4	98.4
102.5°	225.6	221.5	205.1	183.5	154.8	138.4	132.3	127.1	125.1
105°	278.9	272.7	253.2	226.6	189.7	172.2	163.0	157.9	159.9
107.5°	334.2	327.1	304.5	267.6	225.6	206.1	195.8	190.7	188.6
110°	391.7	383.4	356.8	312.7	262.5	238.9	226.6	222.5	221.5



TEST NUMBER: P253363

CATALOG NUMBER: JW-WL-40L840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	451.1	441.9	410.1	359.9	301.4	272.7	261.4	255.3	254.3
115°	512.6	500.3	465.5	405.0	338.3	308.6	294.3	288.1	287.1
117.5°	580.3	565.9	522.9	452.1	376.3	342.4	327.1	320.9	319.9
120°	641.8	627.5	584.4	498.3	412.2	375.2	360.9	353.7	352.7
122.5°	705.4	690.0	638.7	550.6	449.1	408.1	394.7	386.5	385.5
125°	768.9	749.5	694.1	599.8	487.0	438.8	427.5	419.3	420.4
127.5°	828.4	806.9	748.4	643.9	523.9	469.6	459.3	452.1	451.1
130°	885.8	864.3	799.7	686.9	563.9	500.3	491.1	482.9	481.9
132.5°	943.2	917.6	848.9	727.9	600.8	534.2	522.9	514.7	514.7
135°	990.4	968.9	895.1	768.9	636.7	563.9	557.7	549.5	549.5
137.5°	1041.7	1015.0	936.1	804.8	670.5	593.6	586.4	580.3	580.3
140°	1080.6	1054.0	974.0	838.7	702.3	622.3	613.1	605.9	607.0
142.5°	1119.6	1089.9	1007.8	870.4	734.1	652.1	639.8	633.6	635.7
145°	1146.2	1118.6	1036.5	898.1	763.8	679.7	662.3	657.2	658.2
147.5°	1170.8	1142.1	1062.2	922.7	791.5	706.4	685.9	679.7	678.7
150°	1185.2	1158.5	1081.7	944.3	819.2	733.1	707.4	698.2	701.3
152.5°	1193.4	1168.8	1094.0	962.7	844.8	759.7	729.0	718.7	717.7
155°	1199.6	1172.9	1102.2	978.1	867.4	784.3	749.5	737.2	736.1
157.5°	1197.5	1172.9	1107.3	989.4	887.9	807.9	774.1	753.6	754.6
160°	1187.3	1165.7	1106.3	999.6	905.3	830.5	796.6	772.0	768.9
162.5°	1172.9	1155.5	1098.1	1004.8	923.8	853.0	819.2	796.6	789.5
165°	1152.4	1137.0	1086.8	1004.8	936.1	872.5	839.7	818.2	812.0
167.5°	1125.7	1112.4	1074.5	1004.8	948.4	891.0	861.2	838.7	834.6
170°	1097.0	1087.8	1057.0	998.6	958.6	908.4	883.8	862.2	857.1
172.5°	1070.4	1061.1	1037.6	992.5	966.8	926.8	905.3	886.9	885.8
175°	1033.5	1028.3	1015.0	984.3	970.9	940.2	926.8	912.5	912.5
177.5°	992.5	996.6	991.4	976.0	975.0	954.5	949.4	939.1	935.0
180°	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8	967.8

(END OF REPORT)