

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: P253355

Luminaire Tested: **JW-WL-20L830-1D-UNV-STD-W-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253355
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-20L830-1D-UNV-STD-W-4
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1911.4 lumens
Efficiency: N/A
Efficacy: 118.0 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

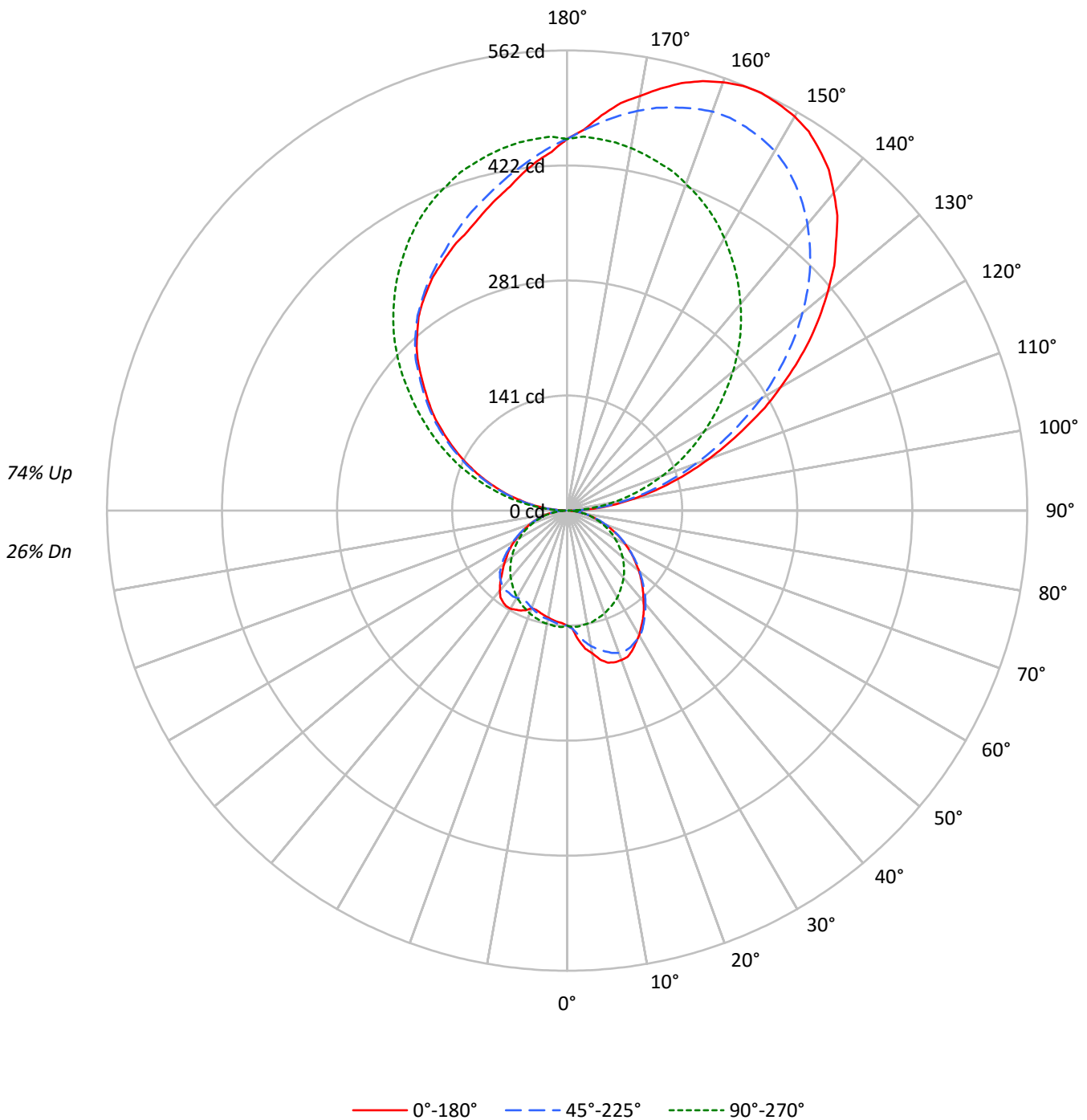
Input Watts (W): 16.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2267	2267	2267
5°	2572	2306	2212
10°	2900	2302	2176
15°	3214	2298	2153
20°	3337	2297	2180
25°	3358	2287	2398
30°	3281	2286	2582
35°	3183	2265	2690
40°	3060	2259	2696
45°	2964	2240	2592
50°	2874	2223	2512
55°	2761	2193	2463
60°	2638	2157	2390
65°	2499	2132	2350
70°	2313	2087	2271
75°	2158	2040	2221
80°	1878	2008	2232
85°	1778	1964	2501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.0	0.7
10°-20°	43.0	2.2
20°-30°	68.9	3.6
30°-40°	86.6	4.5
40°-50°	90.6	4.7
50°-60°	81.7	4.3
60°-70°	62.7	3.3
70°-80°	37.2	1.9
80°-90°	13.4	0.7
90°-100°	32.1	1.7
100°-110°	102.7	5.4
110°-120°	174.4	9.1
120°-130°	230.8	12.1
130°-140°	257.6	13.5
140°-150°	246.2	12.9
150°-160°	198.9	10.4
160°-170°	127.2	6.7
170°-180°	43.4	2.3
0°-30°	125.9	6.6
0°-40°	212.5	11.1
0°-60°	384.8	20.1
0°-90°	498.1	26.1
90°-120°	309.2	16.2
90°-150°	1043.9	54.6
90°-180°	1413.0	73.9
0°-180°	1911.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	159	152	142	138	136	16
15°	192	178	138	131	129	54
25°	188	184	128	121	135	86
35°	162	164	115	123	136	101
45°	130	132	98	116	114	100
55°	98	99	78	90	88	88
65°	65	67	56	62	62	65
75°	35	36	33	35	36	36
85°	10	11	11	12	14	10
90°	4	3	1	2	2	4
95°	39	35	26	21	20	41
105°	131	119	89	76	75	139
115°	240	218	159	138	135	239
125°	361	326	228	200	197	322
135°	464	420	299	262	258	358
145°	538	486	358	311	309	336
155°	562	517	407	351	345	259
165°	540	510	439	394	381	153
175°	485	476	455	435	428	47
180°	454	454	454	454	454	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	144.2	145.7	144.2	141.8	142.3	139.9	139.9	138.9	137.5
5°	158.7	157.2	151.9	143.3	142.3	138.9	138.5	137.5	136.5
7.5°	170.2	168.3	161.1	146.6	141.3	138.0	136.5	135.6	134.6
10°	176.9	175.5	168.3	150.5	140.4	136.5	134.6	133.7	132.7
12.5°	186.5	183.2	173.1	154.3	139.4	134.6	133.7	131.7	130.8
15°	192.3	190.4	177.9	157.2	137.5	132.7	131.2	129.8	128.8
17.5°	194.2	193.3	182.2	159.6	135.6	130.8	129.3	127.4	126.9
20°	194.2	193.3	185.1	159.6	133.7	127.9	126.4	125.5	126.9
22.5°	193.3	191.8	185.6	159.1	130.8	125.5	123.6	127.4	131.7
25°	188.5	189.4	183.7	158.2	128.4	122.6	121.2	132.2	134.6
27.5°	181.7	184.1	180.3	157.7	125.5	119.7	121.2	132.7	136.5
30°	176.0	176.9	177.4	156.7	122.6	116.3	123.1	134.6	138.5
32.5°	168.3	169.2	171.2	154.3	118.7	113.0	124.0	135.6	138.5
35°	161.5	162.5	163.9	151.4	114.9	109.6	123.1	134.1	136.5
37.5°	153.8	154.8	156.7	147.1	111.1	105.8	123.1	131.2	133.7
40°	145.2	146.6	148.6	142.3	107.2	101.4	122.1	128.4	127.9
42.5°	137.5	138.0	140.9	137.0	102.9	98.1	119.2	122.1	121.2
45°	129.8	130.3	132.2	130.8	98.1	95.7	115.9	114.9	113.5
47.5°	122.1	121.6	123.6	125.0	93.3	93.7	111.5	107.7	106.7
50°	114.4	113.9	115.4	117.8	88.5	91.3	104.8	101.0	100.0
52.5°	105.8	106.2	107.7	109.1	83.2	87.5	98.1	94.2	93.3
55°	98.1	98.1	99.0	100.5	77.9	84.6	90.4	87.5	87.5
57.5°	90.4	90.4	90.9	92.3	72.6	80.8	82.7	81.2	80.8
60°	81.7	82.2	82.7	84.6	66.8	76.4	76.0	74.5	74.0
62.5°	74.0	74.0	74.5	76.0	62.0	70.7	69.2	67.8	67.3
65°	65.4	66.3	66.8	68.7	55.8	64.9	61.5	61.5	61.5
67.5°	57.7	57.7	58.2	60.1	50.0	56.7	54.8	54.8	53.8
70°	49.0	50.0	50.0	51.9	44.2	49.0	48.1	48.6	48.1
72.5°	41.3	42.3	42.8	43.7	38.5	42.3	41.3	41.3	42.3
75°	34.6	34.6	35.6	36.1	32.7	35.1	35.1	35.6	35.6
77.5°	26.9	27.9	27.9	29.8	27.4	28.8	28.8	29.8	29.8
80°	20.2	21.2	21.2	24.0	21.6	22.6	23.1	24.0	24.0
82.5°	14.4	15.4	15.4	20.2	15.9	17.3	17.8	18.3	18.3
85°	9.6	9.6	10.6	15.4	10.6	12.0	12.5	13.5	13.5
87.5°	3.8	4.8	5.8	11.5	6.2	8.2	8.2	7.7	7.7
90°	3.8	3.8	2.9	7.7	1.4	2.4	1.9	1.9	1.9
92.5°	21.2	20.2	16.8	20.2	11.5	11.1	8.7	8.2	8.7
95°	39.4	38.5	35.1	32.7	26.0	22.6	20.7	20.2	20.2
97.5°	60.6	59.1	53.8	50.0	40.4	36.1	33.7	32.2	32.7
100°	81.7	80.3	74.5	68.3	56.2	50.5	47.1	45.7	46.2
102.5°	105.8	103.8	96.2	86.1	72.6	64.9	62.0	59.6	58.7
105°	130.8	127.9	118.7	106.2	88.9	80.8	76.4	74.0	75.0
107.5°	156.7	153.4	142.8	125.5	105.8	96.6	91.8	89.4	88.5
110°	183.7	179.8	167.3	146.6	123.1	112.0	106.2	104.3	103.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	211.5	207.2	192.3	168.7	141.3	127.9	122.6	119.7	119.2
115°	240.4	234.6	218.3	189.9	158.7	144.7	138.0	135.1	134.6
117.5°	272.1	265.4	245.2	212.0	176.4	160.6	153.4	150.5	150.0
120°	301.0	294.2	274.0	233.7	193.3	176.0	169.2	165.9	165.4
122.5°	330.8	323.6	299.5	258.2	210.6	191.3	185.1	181.2	180.8
125°	360.6	351.4	325.5	281.2	228.4	205.8	200.5	196.6	197.1
127.5°	388.5	378.4	351.0	301.9	245.7	220.2	215.4	212.0	211.5
130°	415.4	405.3	375.0	322.1	264.4	234.6	230.3	226.4	226.0
132.5°	442.3	430.3	398.1	341.3	281.7	250.5	245.2	241.3	241.3
135°	464.4	454.3	419.7	360.6	298.6	264.4	261.5	257.7	257.7
137.5°	488.5	476.0	438.9	377.4	314.4	278.4	275.0	272.1	272.1
140°	506.7	494.2	456.7	393.3	329.3	291.8	287.5	284.1	284.6
142.5°	525.0	511.1	472.6	408.2	344.2	305.8	300.0	297.1	298.1
145°	537.5	524.5	486.1	421.2	358.2	318.7	310.6	308.2	308.7
147.5°	549.0	535.6	498.1	432.7	371.2	331.2	321.6	318.7	318.3
150°	555.8	543.3	507.2	442.8	384.1	343.7	331.7	327.4	328.8
152.5°	559.6	548.1	513.0	451.4	396.2	356.2	341.8	337.0	336.5
155°	562.5	550.0	516.8	458.7	406.7	367.8	351.4	345.7	345.2
157.5°	561.5	550.0	519.2	463.9	416.3	378.8	363.0	353.4	353.8
160°	556.7	546.6	518.7	468.7	424.5	389.4	373.6	362.0	360.6
162.5°	550.0	541.8	514.9	471.2	433.2	400.0	384.1	373.6	370.2
165°	540.4	533.2	509.6	471.2	438.9	409.1	393.7	383.7	380.8
167.5°	527.9	521.6	503.8	471.2	444.7	417.8	403.8	393.3	391.3
170°	514.4	510.1	495.7	468.3	449.5	426.0	414.4	404.3	401.9
172.5°	501.9	497.6	486.5	465.4	453.4	434.6	424.5	415.9	415.4
175°	484.6	482.2	476.0	461.5	455.3	440.9	434.6	427.9	427.9
177.5°	465.4	467.3	464.9	457.7	457.2	447.6	445.2	440.4	438.5
180°	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8	453.8

(END OF REPORT)