

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: P253614

Luminaire Tested: **JW-WL-20L83050-1D-UNV-W2A-W-4 (3000K)**

Issue Date: 3/3/2020

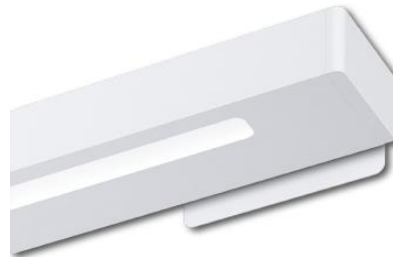
Test Information

Test Method: LM-79-08
Report Number: P253614
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 (3000K)
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 3000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1892.6 lumens
Efficiency: N/A
Efficacy: 108.1 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

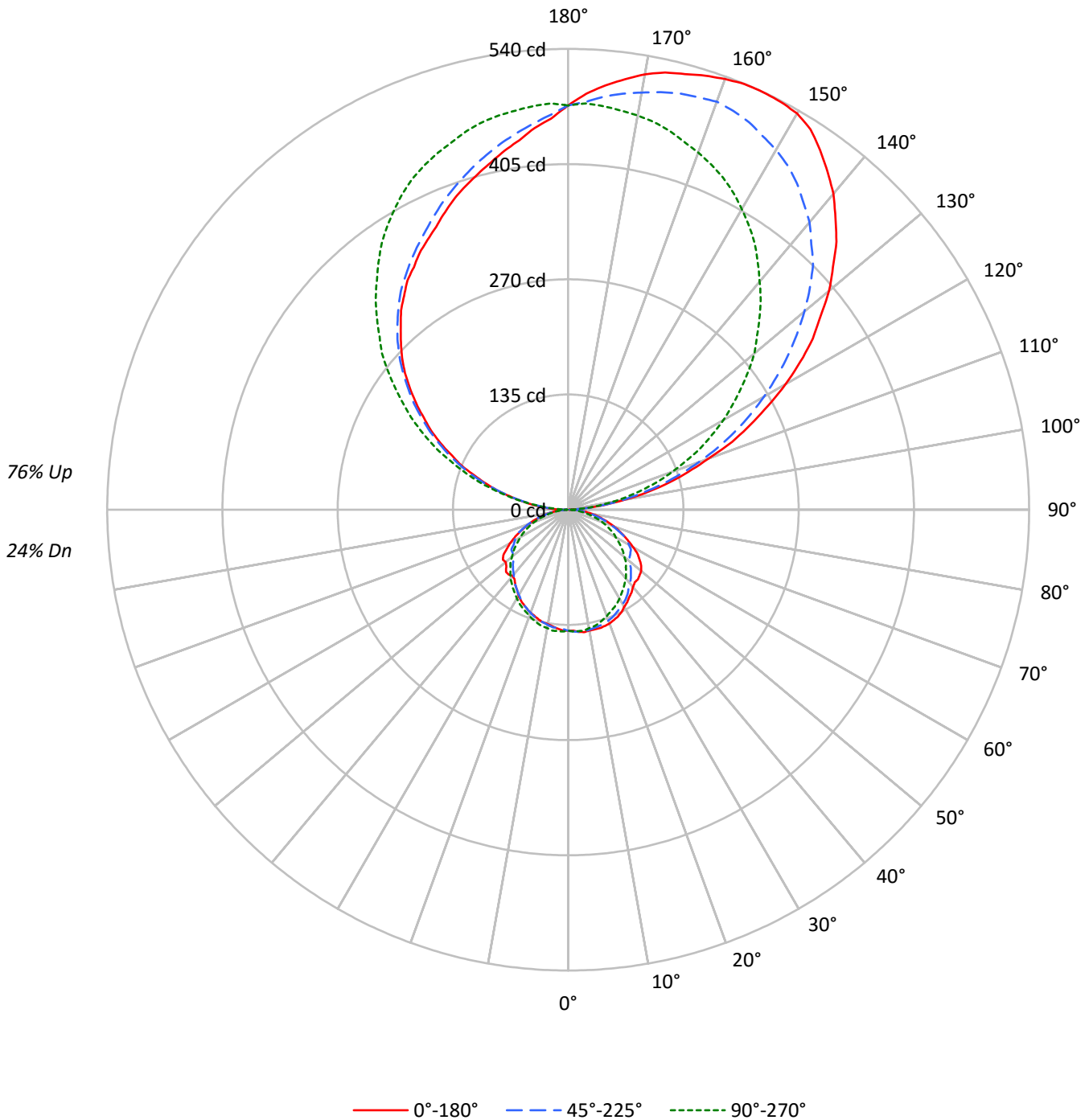
Input Watts (W): 17.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2289	2289	2289
5°	2329	2314	2267
10°	2356	2310	2233
15°	2402	2307	2228
20°	2436	2275	2210
25°	2458	2257	2189
30°	2450	2239	2168
35°	2460	2217	2125
40°	2491	2213	2133
45°	2635	2181	2354
50°	2803	2160	2399
55°	2874	2128	2609
60°	2838	2076	2535
65°	2747	2059	2418
70°	2677	2006	2323
75°	2595	1828	2183
80°	2641	1674	2018
85°	3149	1575	2093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.5	0.7
10°-20°	38.9	2.1
20°-30°	59.2	3.1
30°-40°	71.7	3.8
40°-50°	77.3	4.1
50°-60°	76.1	4.0
60°-70°	61.9	3.3
70°-80°	38.3	2.0
80°-90°	13.5	0.7
90°-100°	27.2	1.4
100°-110°	102.7	5.4
110°-120°	181.6	9.6
120°-130°	238.3	12.6
130°-140°	262.9	13.9
140°-150°	250.5	13.2
150°-160°	203.1	10.7
160°-170°	131.0	6.9
170°-180°	45.0	2.4
0°-30°	111.6	5.9
0°-40°	183.3	9.7
0°-60°	336.7	17.8
0°-90°	450.3	23.8
90°-120°	311.5	16.5
90°-150°	1063.2	56.2
90°-180°	1442.0	76.2
0°-180°	1892.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	142	142	142	142	142	
5°	144	144	143	139	140	14
15°	144	141	138	133	133	41
25°	138	133	127	123	123	63
35°	125	121	112	108	108	78
45°	115	104	96	92	103	89
55°	102	89	76	81	93	91
65°	72	71	54	64	63	71
75°	42	40	29	35	35	44
85°	17	15	8	11	11	16
90°	1	1	1	2	2	3
95°	20	23	20	25	26	27
105°	122	112	90	83	84	128
115°	235	215	171	155	150	233
125°	350	314	247	222	218	311
135°	444	406	317	283	277	342
145°	514	467	381	333	328	322
155°	540	501	429	376	366	249
165°	528	505	460	419	408	150
175°	499	486	475	455	449	48
180°	474	474	474	474	474	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8	141.8
2.5°	141.8	142.8	142.8	142.8	142.8	142.8	139.9	140.9	141.8
5°	143.7	143.7	143.7	142.8	142.8	141.8	139.0	139.9	139.9
7.5°	144.7	144.7	143.7	142.8	142.8	141.8	139.0	139.0	138.0
10°	143.7	144.7	142.8	142.8	140.9	139.9	137.1	137.1	136.2
12.5°	143.7	144.7	141.8	140.9	139.9	137.1	135.2	135.2	135.2
15°	143.7	144.7	140.9	139.9	138.0	135.2	133.3	133.3	133.3
17.5°	142.8	142.8	139.9	137.1	135.2	132.4	131.4	131.4	130.5
20°	141.8	141.8	138.0	135.2	132.4	129.5	128.6	128.6	128.6
22.5°	139.9	139.9	136.2	133.3	129.5	126.7	125.8	125.8	125.8
25°	138.0	137.1	133.3	130.5	126.7	123.9	122.9	122.0	122.9
27.5°	135.2	134.3	130.5	126.7	123.9	121.0	119.1	119.1	120.1
30°	131.4	131.4	127.6	123.9	120.1	117.2	115.4	115.4	116.3
32.5°	128.6	128.6	124.8	120.1	116.3	114.4	111.6	111.6	111.6
35°	124.8	124.8	121.0	116.3	112.5	109.7	107.8	107.8	107.8
37.5°	122.0	122.0	116.3	112.5	108.7	105.9	103.1	103.1	103.1
40°	118.2	117.2	112.5	108.7	105.0	102.1	99.3	99.3	101.2
42.5°	115.4	112.5	108.7	105.0	100.2	97.4	95.5	97.4	103.1
45°	115.4	109.7	104.0	100.2	95.5	92.7	91.7	98.3	103.1
47.5°	113.5	109.7	99.3	95.5	91.7	87.9	87.0	98.3	98.3
50°	111.6	107.8	93.6	89.8	86.0	83.2	83.2	93.6	95.5
52.5°	107.8	105.0	90.8	85.1	81.3	78.5	82.3	89.8	96.4
55°	102.1	101.2	88.9	79.4	75.6	72.8	81.3	90.8	92.7
57.5°	96.4	96.4	87.0	72.8	70.0	68.1	75.6	86.0	85.1
60°	87.9	88.9	82.3	68.1	64.3	62.4	71.9	78.5	78.5
62.5°	79.4	80.4	77.5	62.4	59.6	56.7	70.9	70.9	70.9
65°	71.9	71.9	70.9	56.7	53.9	51.1	64.3	63.3	63.3
67.5°	64.3	64.3	62.4	51.1	48.2	48.2	56.7	56.7	55.8
70°	56.7	56.7	54.8	47.3	42.5	44.4	50.1	49.2	49.2
72.5°	49.2	49.2	47.3	42.5	35.9	38.8	41.6	41.6	42.5
75°	41.6	42.5	39.7	36.9	29.3	35.0	35.0	35.0	35.0
77.5°	35.0	35.0	32.1	29.3	23.6	28.4	27.4	28.4	28.4
80°	28.4	28.4	26.5	22.7	18.0	21.7	21.7	21.7	21.7
82.5°	21.7	21.7	19.9	17.0	12.3	15.1	16.1	16.1	16.1
85°	17.0	17.0	15.1	11.3	8.5	9.5	11.3	11.3	11.3
87.5°	12.3	12.3	10.4	7.6	4.7	6.6	6.6	5.7	5.7
90°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	0.9	1.9
92.5°	4.7	4.7	5.7	7.6	7.6	11.3	13.2	15.1	15.1
95°	19.9	20.8	22.7	21.7	19.9	22.7	24.6	26.5	26.5
97.5°	42.5	43.5	41.6	38.8	35.0	35.9	35.9	38.8	39.7
100°	67.1	66.2	63.3	59.6	52.9	51.1	50.1	52.0	52.0
102.5°	94.6	92.7	86.0	79.4	70.9	67.1	67.1	66.2	67.1
105°	122.0	119.1	111.6	100.2	89.8	86.0	83.2	82.3	84.1
107.5°	147.5	146.6	137.1	122.9	110.6	104.0	102.1	100.2	100.2
110°	174.0	172.1	162.6	144.7	129.5	122.9	120.1	117.2	116.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	208.0	202.3	189.1	169.2	149.4	142.8	138.0	135.2	135.2
115°	235.4	229.8	214.6	192.9	171.1	160.7	155.1	152.2	150.3
117.5°	263.8	258.1	240.2	215.6	190.0	179.6	172.1	171.1	168.3
120°	294.1	286.5	264.7	238.3	209.9	195.7	189.1	187.2	185.3
122.5°	322.4	313.0	289.3	259.1	227.9	211.8	205.2	203.3	200.4
125°	349.8	338.5	313.9	281.8	246.8	228.8	222.2	219.4	217.5
127.5°	372.5	365.0	337.5	302.6	265.7	244.9	237.3	234.5	233.5
130°	399.0	388.6	361.2	321.5	284.6	261.0	253.4	248.7	249.6
132.5°	420.7	412.2	383.9	341.3	299.7	276.1	268.5	263.8	263.8
135°	444.4	434.9	405.6	359.3	316.7	292.2	282.7	278.0	277.0
137.5°	463.3	455.7	421.7	376.3	333.8	306.3	295.9	292.2	290.3
140°	483.2	472.8	439.7	393.3	348.9	321.5	309.2	306.3	304.5
142.5°	499.2	487.9	452.9	408.5	365.0	335.7	322.4	319.6	315.8
145°	514.4	501.1	467.1	422.6	381.0	348.9	332.8	330.0	328.1
147.5°	528.5	513.4	478.4	434.9	394.3	362.1	344.2	341.3	336.6
150°	536.1	521.9	486.9	447.2	406.6	373.5	354.6	350.8	347.9
152.5°	538.9	528.5	493.6	457.6	418.9	386.7	365.0	360.2	356.5
155°	539.9	530.4	501.1	466.1	429.3	399.0	376.3	369.7	365.9
157.5°	539.9	529.5	505.8	472.8	437.8	409.4	387.7	380.1	377.3
160°	537.0	529.5	508.7	478.4	445.3	418.9	398.1	389.5	388.6
162.5°	533.3	527.6	506.8	482.2	451.9	428.3	408.5	399.9	398.1
165°	528.5	523.8	504.9	486.0	459.5	436.8	418.9	411.3	407.5
167.5°	524.8	519.1	501.1	486.0	465.2	445.3	428.3	422.6	417.0
170°	518.1	513.4	496.4	485.0	469.0	451.0	437.8	432.1	427.4
172.5°	508.7	504.9	491.7	484.1	471.8	457.6	446.3	442.5	436.8
175°	499.2	497.3	486.0	483.2	474.6	464.2	454.8	452.9	449.1
177.5°	487.9	486.9	478.4	480.3	476.5	469.0	463.3	464.2	458.6
180°	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7	473.7

(END OF REPORT)