

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: P253633

Luminaire Tested: **JW-WL-40L83050-1D-UNV-W2A-W-4 (4000K)**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-784-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: JW-WL-40L83050-1D-UNV-W2A-W-4 (4000K)
Description: JAYLUM WALL LED LUMINAIRE, FROSTED LENS.
3000K-5000K CCT VividTune LIGHT ENGINE.
Light Source: (168) 3000K-5000K CCT, 80 CRI LEDS, TUNED TO 4000K CCT.
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4193.1 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.26 / 1.4
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

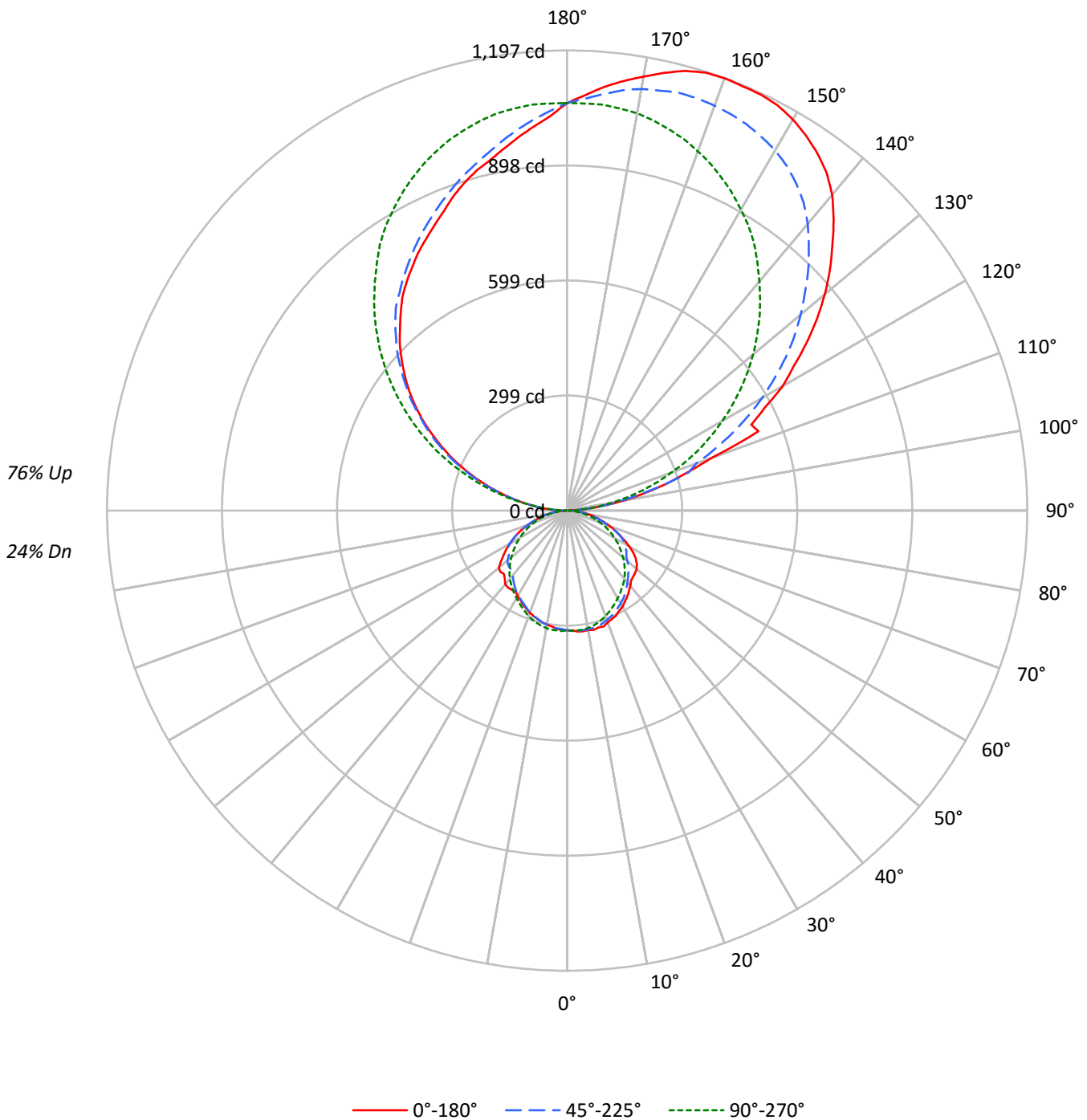
Input Watts (W): 40.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	69	69	69	49	49	49	32	32	32	24				
1	92	87	84	80	81	78	75	72	60	57	56	43	42	40	28	27	26	19				
2	83	76	70	65	74	68	63	58	52	49	46	37	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	6				
9	46	34	27	22	41	31	24	20	24	19	16	17	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°	5029	5029	5029
5°	5118	5066	4998
10°	5178	5091	4935
15°	5260	5066	4891
20°	5316	5010	4864
25°	5362	4951	4819
30°	5377	4905	4788
35°	5373	4874	4959
40°	5391	4881	5280
45°	5551	4832	5311
50°	5923	4760	5817
55°	6134	4681	5689
60°	6016	4589	5541
65°	5750	4504	5429
70°	5566	4324	5117
75°	5384	4074	4791
80°	5281	3719	4500
85°	6428	3316	4687



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.7	0.7
10°-20°	85.5	2.0
20°-30°	129.8	3.1
30°-40°	158.2	3.8
40°-50°	171.9	4.1
50°-60°	167.4	4.0
60°-70°	134.6	3.2
70°-80°	82.6	2.0
80°-90°	28.9	0.7
90°-100°	60.0	1.4
100°-110°	229.8	5.5
110°-120°	404.8	9.7
120°-130°	527.2	12.6
130°-140°	581.8	13.9
140°-150°	556.4	13.3
150°-160°	451.8	10.8
160°-170°	291.9	7.0
170°-180°	100.6	2.4
0°-30°	245.0	5.8
0°-40°	403.2	9.6
0°-60°	742.5	17.7
0°-90°	988.7	23.6
90°-120°	694.6	16.6
90°-150°	2360.0	56.3
90°-180°	3204.0	76.4
0°-180°	4193.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	312	312	312	312	312	
5°	316	314	313	307	308	30
15°	315	310	303	293	293	89
25°	301	293	278	267	270	138
35°	273	263	247	239	252	171
45°	243	225	212	210	233	189
55°	218	188	166	183	202	193
65°	150	150	118	140	142	150
75°	86	83	65	78	77	92
85°	35	30	18	24	25	33
90°	6	6	2	4	3	7
95°	48	48	46	52	56	60
105°	265	263	202	184	183	280
115°	528	472	380	343	337	537
125°	760	694	550	493	485	680
135°	976	887	707	629	616	754
145°	1135	1039	848	742	727	709
155°	1194	1107	954	839	818	551
165°	1184	1125	1026	930	915	335
175°	1106	1087	1060	1020	1002	107
180°	1060	1060	1060	1060	1060	



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CATALOG NUMBER: JW-WL-40L83050-1D-UNV-W2A-W-4 (4000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5	311.5
2.5°	311.5	313.7	312.6	312.6	313.7	311.5	308.4	310.5	311.5
5°	315.8	315.8	313.7	312.6	312.6	309.4	307.3	307.3	308.4
7.5°	316.8	317.9	313.7	312.6	312.6	308.4	306.3	304.2	304.2
10°	315.8	317.9	313.7	311.5	310.5	305.2	302.1	301.0	301.0
12.5°	317.9	316.8	312.6	310.5	307.3	302.1	297.9	296.8	297.9
15°	314.7	316.8	310.5	306.3	303.1	298.9	292.6	292.6	292.6
17.5°	315.8	313.7	307.3	303.1	297.9	293.7	287.3	288.4	288.4
20°	309.4	311.5	303.1	297.9	291.6	287.3	282.1	282.1	283.1
22.5°	305.2	306.3	297.9	292.6	285.2	281.0	274.7	275.8	276.8
25°	301.0	300.0	292.6	286.3	277.9	272.6	267.3	269.4	270.5
27.5°	293.7	293.7	285.2	278.9	270.5	265.2	261.0	263.1	263.1
30°	288.4	286.3	278.9	271.6	263.1	257.9	254.7	254.7	256.8
32.5°	280.0	277.9	271.6	263.1	255.8	249.4	247.3	247.3	249.4
35°	272.6	269.4	263.1	254.7	247.3	241.0	238.9	240.0	251.6
37.5°	264.2	261.0	253.7	246.3	240.0	231.6	229.5	241.0	252.6
40°	255.8	252.6	244.2	237.9	231.6	223.1	220.0	243.1	250.5
42.5°	246.3	244.2	234.7	228.4	222.1	215.8	212.6	238.9	240.0
45°	243.1	234.7	225.2	217.9	211.6	205.2	210.5	228.4	232.6
47.5°	240.0	231.6	216.8	208.4	201.0	194.7	208.4	221.0	235.8
50°	235.8	227.3	204.2	197.9	189.5	185.2	203.1	222.1	231.6
52.5°	228.4	222.1	193.7	186.3	177.9	174.7	191.6	216.8	216.8
55°	217.9	212.6	188.4	174.7	166.3	162.1	183.1	202.1	202.1
57.5°	204.2	201.0	181.0	161.0	154.7	150.5	181.0	187.3	188.4
60°	186.3	185.2	173.7	147.4	142.1	140.0	173.7	171.6	171.6
62.5°	168.4	167.4	163.1	134.7	130.5	132.6	156.8	155.8	156.8
65°	150.5	151.6	149.5	122.1	117.9	124.2	140.0	141.0	142.1
67.5°	134.7	133.7	132.6	108.4	104.2	111.6	125.3	125.3	125.3
70°	117.9	116.8	114.7	100.0	91.6	102.1	108.4	109.5	108.4
72.5°	102.1	101.0	97.9	89.5	80.0	92.6	93.7	92.6	92.6
75°	86.3	86.3	83.1	77.9	65.3	77.9	77.9	77.9	76.8
77.5°	71.6	70.5	67.4	63.2	52.6	62.1	61.0	63.2	63.2
80°	56.8	56.8	54.7	47.4	40.0	47.4	48.4	49.5	48.4
82.5°	45.3	45.3	41.0	34.7	27.4	32.6	34.7	36.8	35.8
85°	34.7	33.7	30.5	24.2	17.9	21.1	24.2	25.3	25.3
87.5°	24.2	24.2	22.1	16.8	8.4	13.7	15.8	14.7	12.6
90°	6.3	6.3	6.3	4.2	2.1	4.2	4.2	4.2	3.2
92.5°	12.6	13.7	16.8	17.9	17.9	22.1	28.4	30.5	29.5
95°	48.4	49.5	48.4	48.4	46.3	47.4	51.6	53.7	55.8
97.5°	94.7	92.6	91.6	88.4	78.9	77.9	78.9	81.0	83.1
100°	146.3	142.1	138.9	140.0	116.8	113.7	111.6	111.6	114.7
102.5°	201.0	203.1	190.5	175.8	158.9	151.6	146.3	147.4	147.4
105°	265.2	256.8	263.1	222.1	202.1	192.6	184.2	184.2	183.1
107.5°	323.1	316.8	331.5	272.6	245.2	234.7	225.2	221.0	220.0
110°	398.9	455.7	356.8	321.0	288.4	274.7	264.2	260.0	258.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
112.5°	538.9	474.7	413.6	375.8	334.7	315.8	303.1	301.0	296.8
115°	528.4	505.2	471.5	424.2	380.0	356.8	343.1	337.9	336.8
117.5°	578.9	567.3	529.4	475.7	423.1	393.6	381.0	374.7	373.6
120°	647.3	630.5	585.2	525.2	466.3	434.7	417.9	413.6	411.5
122.5°	698.9	689.4	638.9	575.7	508.4	471.5	453.6	449.4	449.4
125°	759.9	748.3	693.6	622.0	550.5	507.3	492.6	486.3	485.2
127.5°	818.9	801.0	745.2	672.6	591.5	544.2	527.3	518.9	519.9
130°	874.7	856.8	792.6	717.8	631.5	578.9	562.0	553.6	552.6
132.5°	927.3	903.1	838.9	758.9	669.4	614.7	597.8	584.2	584.2
135°	975.7	953.6	887.3	795.7	707.3	648.4	629.4	617.8	615.7
137.5°	1026.2	995.7	930.4	832.5	743.1	685.2	662.0	649.4	643.1
140°	1072.5	1038.8	973.6	871.5	777.8	715.7	692.6	678.9	673.6
142.5°	1108.3	1076.7	1010.4	906.2	812.6	748.3	715.7	708.4	703.1
145°	1134.6	1109.4	1038.8	938.9	848.3	779.9	742.0	735.7	727.3
147.5°	1156.7	1136.7	1063.1	968.3	877.8	808.3	766.2	761.0	750.5
150°	1174.6	1152.5	1082.0	997.8	904.1	836.8	791.5	783.1	774.7
152.5°	1187.3	1169.4	1095.7	1023.1	930.4	865.2	815.7	804.1	795.7
155°	1193.6	1175.7	1107.3	1039.9	953.6	890.4	838.9	827.3	817.8
157.5°	1194.6	1177.8	1115.7	1056.7	975.7	911.5	863.1	849.4	841.0
160°	1196.7	1175.7	1120.9	1064.1	994.6	935.7	886.2	870.4	868.3
162.5°	1194.6	1170.4	1124.1	1072.5	1012.5	955.7	909.4	894.6	892.5
165°	1184.1	1164.1	1125.2	1078.8	1026.2	977.8	930.4	917.8	914.6
167.5°	1166.2	1154.6	1118.8	1080.9	1038.8	994.6	952.5	941.0	932.5
170°	1146.2	1143.0	1113.6	1082.0	1049.4	1011.5	975.7	964.1	954.6
172.5°	1127.3	1126.2	1103.0	1080.9	1054.6	1024.1	998.8	986.2	978.9
175°	1106.2	1105.2	1087.3	1078.8	1059.9	1035.7	1019.9	1010.4	1002.0
177.5°	1082.0	1084.1	1072.5	1076.7	1059.9	1048.3	1039.9	1034.6	1026.2
180°	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9	1059.9

(END OF REPORT)