

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: P286860

Luminaire Tested: **DWI-WA-50L830-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286860
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87014-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DWI-WA-50L830-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4663.8 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Spacing Criteria (0/90/45): 1.55 / 1.46 / 1.61
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')
CIE Type: General Diffuse

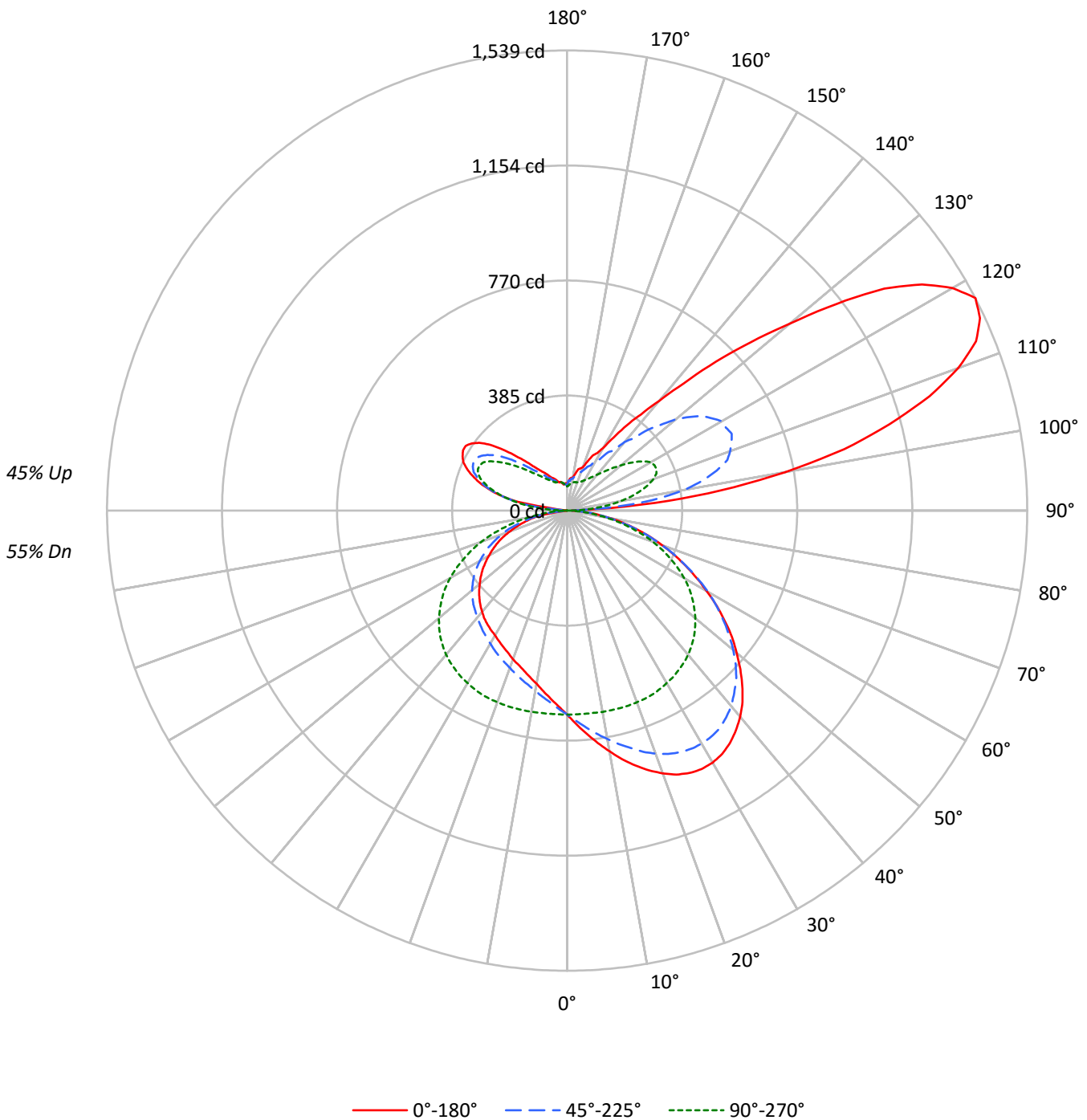
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	108	101	101	101	101	86	86	86	73	73	73	61	61	61	55
1	98	94	90	86	91	87	84	80	75	72	70	64	62	60	53	52	51	46
2	89	81	75	69	82	76	70	65	65	61	57	55	52	49	46	44	42	37
3	81	71	63	57	75	66	59	54	57	52	47	48	44	41	40	37	35	31
4	74	62	54	48	68	58	51	45	50	44	40	43	38	34	36	32	29	26
5	68	55	47	41	62	52	44	38	45	38	34	38	33	29	32	28	25	22
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19
7	57	44	36	30	53	42	34	29	36	30	26	31	26	22	26	22	19	17
8	53	40	32	27	49	38	30	25	33	27	22	28	23	20	24	20	17	15
9	49	37	29	24	46	34	27	22	30	24	20	26	21	18	22	18	15	13
10	46	33	26	21	43	31	25	20	27	22	18	24	19	16	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	5212	5212	5212
5°	5744	5232	4841
10°	6341	5305	4564
15°	6981	5408	4390
20°	7602	5546	4306
25°	8164	5711	4249
30°	8585	5878	4251
35°	8854	6066	4331
40°	8977	6280	4409
45°	8951	6477	4485
50°	8789	6653	4537
55°	8579	6799	4596
60°	8237	6900	4617
65°	7905	6900	4657
70°	7530	6819	4548
75°	7087	6432	4366
80°	6507	5737	3986
85°	5715	4742	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.8	1.4
10°-20°	199.5	4.3
20°-30°	328.2	7.0
30°-40°	428.6	9.2
40°-50°	474.9	10.2
50°-60°	451.5	9.7
60°-70°	361.1	7.7
70°-80°	217.4	4.7
80°-90°	54.1	1.2
90°-100°	137.6	2.9
100°-110°	459.1	9.8
110°-120°	558.2	12.0
120°-130°	446.9	9.6
130°-140°	253.0	5.4
140°-150°	123.8	2.7
150°-160°	63.8	1.4
160°-170°	31.3	0.7
170°-180°	9.1	0.2
0°-30°	593.5	12.7
0°-40°	1022.1	21.9
0°-60°	1948.5	41.8
0°-90°	2581.0	55.3
90°-120°	1154.8	24.8
90°-150°	1978.6	42.4
90°-180°	2083.0	44.7
0°-180°	4663.8	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	682	682	682	682	682	
5°	749	728	682	644	631	74
15°	883	822	684	585	555	251
25°	968	892	678	538	504	446
35°	949	889	650	491	464	592
45°	828	800	600	444	415	638
55°	644	638	510	380	345	575
65°	437	440	382	289	258	433
75°	240	237	218	169	148	254
85°	65	62	54	5	0	70
90°	16	11	0	0	0	15
95°	296	192	95	10	0	329
105°	1116	518	254	262	267	1162
115°	1524	608	329	348	383	1484
125°	1294	552	285	324	391	1141
135°	704	383	192	223	275	555
145°	348	238	134	146	169	223
155°	204	162	106	111	121	93
165°	143	121	99	95	97	40
175°	106	99	88	89	91	10
180°	81	81	81	81	81	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2	682.2
2.5°	715.6	715.6	714.0	712.4	709.3	704.5	699.7	694.9	690.2	685.4	682.2
5°	749.0	749.0	745.8	742.7	736.3	728.3	718.8	710.9	698.1	688.6	682.2
7.5°	784.0	784.0	779.2	772.9	764.9	752.2	739.5	725.2	706.1	691.8	682.2
10°	817.4	817.4	812.6	806.3	793.5	776.1	758.6	737.9	715.6	694.9	683.8
12.5°	852.4	852.4	844.4	836.5	820.6	799.9	777.6	750.6	725.2	696.5	683.8
15°	882.6	882.6	876.2	866.7	847.6	822.2	795.1	761.7	731.5	699.7	683.8
17.5°	911.2	911.2	904.9	892.1	873.1	846.0	812.6	772.9	737.9	701.3	683.8
20°	935.1	935.1	928.7	916.0	895.3	865.1	826.9	785.6	742.7	702.9	682.2
22.5°	955.8	954.2	947.8	933.5	912.8	881.0	841.3	792.0	747.4	702.9	680.6
25°	968.5	966.9	960.5	947.8	923.9	892.1	849.2	796.7	749.0	702.9	677.5
27.5°	974.8	973.2	968.5	954.2	931.9	898.5	855.6	801.5	749.0	701.3	672.7
30°	973.2	973.2	966.9	955.8	933.5	900.1	857.2	801.5	747.4	696.5	666.3
32.5°	965.3	963.7	958.9	949.4	928.7	896.9	855.6	798.3	744.2	690.2	660.0
35°	949.4	949.4	946.2	936.7	919.2	889.0	846.0	790.4	736.3	680.6	650.4
37.5°	927.1	927.1	925.5	917.6	901.7	873.1	833.3	780.8	725.2	671.1	640.9
40°	900.1	901.7	898.5	892.1	879.4	854.0	817.4	766.5	712.4	658.4	629.7
42.5°	868.3	868.3	865.1	861.9	850.8	826.9	795.1	747.4	696.5	642.5	615.4
45°	828.5	828.5	826.9	825.4	815.8	799.9	769.7	725.2	677.5	625.0	599.5
47.5°	785.6	787.2	785.6	785.6	779.2	764.9	737.9	696.5	655.2	605.9	580.4
50°	739.5	742.7	741.1	742.7	736.3	725.2	702.9	667.9	629.7	583.6	559.8
52.5°	694.9	693.4	691.8	694.9	691.8	682.2	663.1	636.1	599.5	558.2	535.9
55°	644.1	642.5	644.1	647.2	644.1	637.7	623.4	597.9	567.7	531.2	510.5
57.5°	593.2	591.6	593.2	596.4	594.8	591.6	578.9	558.2	534.3	500.9	483.4
60°	539.1	540.7	542.3	543.9	547.1	543.9	531.2	516.8	497.8	469.1	451.6
62.5°	488.2	488.2	491.4	493.0	494.6	491.4	485.0	472.3	459.6	434.1	418.2
65°	437.3	437.3	438.9	440.5	443.7	440.5	435.7	427.8	416.7	396.0	381.7
67.5°	388.0	386.4	388.0	391.2	389.6	389.6	383.3	381.7	372.1	356.2	345.1
70°	337.1	335.5	337.1	337.1	338.7	337.1	335.5	334.0	326.0	318.1	305.3
72.5°	289.4	286.2	287.8	289.4	287.8	287.8	284.7	284.7	279.9	273.5	262.4
75°	240.1	238.5	238.5	238.5	238.5	237.0	232.2	235.4	233.8	229.0	217.9
77.5°	192.4	192.4	194.0	190.8	192.4	187.7	189.2	186.1	187.7	182.9	174.9
80°	147.9	146.3	146.3	146.3	146.3	143.1	141.5	139.9	143.1	138.4	130.4
82.5°	101.8	103.4	101.8	100.2	101.8	101.8	100.2	97.0	98.6	93.8	89.1
85°	65.2	65.2	65.2	62.0	62.0	62.0	63.6	62.0	60.4	57.2	54.1
87.5°	30.2	31.8	31.8	31.8	31.8	30.2	30.2	28.6	27.0	25.4	23.9
90°	15.9	15.9	14.3	14.3	12.7	11.1	9.5	6.4	4.8	1.6	0.0
92.5°	47.7	38.2	49.3	52.5	52.5	52.5	46.1	42.9	44.5	44.5	46.1
95°	295.8	283.1	292.6	279.9	246.5	192.4	128.8	103.4	98.6	93.8	95.4
97.5°	520.0	507.3	512.1	483.4	416.7	306.9	202.0	157.4	149.5	139.9	139.9
100°	739.5	729.9	718.8	677.5	567.7	397.6	262.4	206.7	197.2	184.5	181.3
102.5°	949.4	933.5	909.6	836.5	691.8	464.4	311.7	249.7	241.7	224.2	219.5
105°	1116.4	1102.1	1076.6	963.7	777.6	518.4	349.9	289.4	281.5	259.2	254.4
107.5°	1270.6	1262.7	1199.1	1075.0	836.5	561.4	388.0	327.6	313.3	291.0	283.1
110°	1391.5	1378.8	1315.2	1149.8	877.8	580.4	424.6	362.6	335.5	316.5	306.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1480.5	1471.0	1375.6	1184.8	879.4	594.8	445.3	384.8	349.9	334.0	322.8
115°	1523.5	1509.2	1413.8	1189.5	873.1	607.5	459.6	394.4	361.0	345.1	329.2
117.5°	1539.4	1523.5	1393.1	1156.1	841.3	599.5	475.5	402.3	365.8	346.7	329.2
120°	1488.5	1474.2	1345.4	1098.9	812.6	597.9	472.3	410.3	367.4	341.9	322.8
122.5°	1407.4	1389.9	1264.3	1028.9	758.6	574.1	459.6	397.6	359.4	327.6	306.9
125°	1294.5	1278.6	1137.0	927.1	715.6	551.8	450.0	375.3	337.1	305.3	284.7
127.5°	1135.5	1125.9	1011.4	838.1	645.7	513.7	415.1	356.2	306.9	281.5	260.8
130°	973.2	966.9	889.0	742.7	590.0	475.5	389.6	332.4	276.7	254.4	235.4
132.5°	833.3	828.5	752.2	636.1	521.6	423.0	349.9	292.6	254.4	227.4	213.1
135°	704.5	702.9	632.9	551.8	454.8	383.3	310.1	264.0	233.8	203.6	192.4
137.5°	575.7	575.7	539.1	473.9	403.9	327.6	283.1	244.9	211.5	182.9	171.7
140°	478.7	472.3	453.2	391.2	338.7	299.0	243.3	213.1	186.1	165.4	157.4
142.5°	405.5	399.2	367.4	337.1	297.4	252.9	230.6	190.8	165.4	149.5	144.7
145°	348.3	346.7	313.3	302.2	267.2	238.5	197.2	182.9	154.3	136.8	133.6
147.5°	289.4	289.4	281.5	252.9	225.8	203.6	189.2	160.6	147.9	127.2	124.0
150°	243.3	243.3	244.9	224.2	213.1	195.6	168.6	147.9	139.9	120.9	117.7
152.5°	216.3	217.9	206.7	211.5	187.7	170.2	155.8	146.3	127.2	114.5	111.3
155°	203.6	205.1	189.2	181.3	168.6	162.2	151.1	132.0	117.7	111.3	106.5
157.5°	176.5	179.7	181.3	162.2	165.4	147.9	132.0	120.9	112.9	109.7	101.8
160°	154.3	155.8	157.4	160.6	141.5	138.4	135.2	124.0	114.5	108.1	100.2
162.5°	147.9	146.3	141.5	141.5	138.4	132.0	117.7	116.1	112.9	106.5	98.6
165°	143.1	144.7	139.9	125.6	128.8	120.9	119.3	105.0	105.0	103.4	98.6
167.5°	125.6	127.2	128.8	127.2	114.5	117.7	109.7	108.1	98.6	101.8	97.0
170°	111.3	112.9	111.3	114.5	117.7	108.1	105.0	106.5	97.0	100.2	95.4
172.5°	111.3	109.7	108.1	103.4	101.8	108.1	105.0	97.0	98.6	97.0	92.2
175°	106.5	108.1	108.1	106.5	103.4	98.6	95.4	97.0	98.6	92.2	87.5
177.5°	97.0	98.6	97.0	98.6	98.6	100.2	100.2	98.6	92.2	85.9	82.7
180°	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1	81.1



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	682.2	682.2	682.2	682.2
2.5°	672.7	663.1	656.8	655.2
5°	661.6	644.1	634.5	631.3
7.5°	652.0	628.2	613.8	609.1
10°	642.5	612.3	594.8	588.4
12.5°	631.3	597.9	577.3	570.9
15°	623.4	585.2	563.0	555.0
17.5°	613.8	572.5	548.6	540.7
20°	604.3	559.8	535.9	529.6
22.5°	596.4	548.6	524.8	515.2
25°	586.8	537.5	512.1	504.1
27.5°	577.3	526.4	500.9	493.0
30°	567.7	513.7	489.8	481.9
32.5°	556.6	502.5	480.3	473.9
35°	547.1	491.4	470.7	464.4
37.5°	535.9	478.7	459.6	454.8
40°	523.2	467.5	448.5	442.1
42.5°	510.5	454.8	437.3	429.4
45°	496.2	443.7	424.6	415.1
47.5°	481.9	429.4	408.7	399.2
50°	464.4	415.1	391.2	381.7
52.5°	445.3	397.6	373.7	364.2
55°	426.2	380.1	354.6	345.1
57.5°	405.5	359.4	334.0	324.4
60°	381.7	337.1	313.3	302.2
62.5°	356.2	313.3	289.4	279.9
65°	330.8	289.4	265.6	257.6
67.5°	303.7	260.8	238.5	232.2
70°	270.3	232.2	209.9	203.6
72.5°	235.4	203.6	179.7	176.5
75°	200.4	168.6	151.1	147.9
77.5°	163.8	133.6	122.5	120.9
80°	125.6	100.2	92.2	90.6
82.5°	85.9	66.8	8.0	0.0
85°	47.7	4.8	1.6	0.0
87.5°	4.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	11.1	1.6	0.0	0.0
95°	84.3	9.5	1.6	0.0
97.5°	141.5	124.0	46.1	0.0
100°	187.7	178.1	173.3	167.0
102.5°	222.6	222.6	225.8	224.2
105°	251.3	262.4	265.6	267.2
107.5°	278.3	295.8	302.2	305.3
110°	300.6	318.1	334.0	335.5



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	311.7	338.7	356.2	362.6
115°	316.5	348.3	375.3	383.3
117.5°	316.5	353.0	386.4	394.4
120°	313.3	351.5	389.6	402.3
122.5°	300.6	340.3	388.0	402.3
125°	279.9	324.4	373.7	391.2
127.5°	259.2	303.7	351.5	372.1
130°	238.5	278.3	327.6	345.1
132.5°	213.1	251.3	294.2	310.1
135°	190.8	222.6	260.8	275.1
137.5°	174.9	200.4	230.6	241.7
140°	159.0	178.1	205.1	213.1
142.5°	141.5	163.8	179.7	187.7
145°	132.0	146.3	163.8	168.6
147.5°	125.6	138.4	151.1	154.3
150°	116.1	125.6	136.8	143.1
152.5°	109.7	122.5	128.8	130.4
155°	108.1	111.3	122.5	120.9
157.5°	105.0	109.7	111.3	116.1
160°	97.0	101.8	106.5	109.7
162.5°	95.4	101.8	105.0	101.8
165°	97.0	95.4	97.0	97.0
167.5°	92.2	95.4	92.2	98.6
170°	89.1	89.1	93.8	92.2
172.5°	92.2	92.2	87.5	87.5
175°	92.2	89.1	87.5	90.6
177.5°	79.5	87.5	90.6	92.2
180°	81.1	81.1	81.1	81.1

(END OF REPORT)