

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: P286895

Luminaire Tested: **DWI-WD-40L830-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286895
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (ITL87015-GONIOPHOTOMETRY)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: DWI-WD-40L830-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM DIFFUSE OPTIC, ASYMMETRIC
Light Source: (154) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3829.5 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.5 / 1.34 / 1.55
Luminous Opening: Rectangular (W 3.86' x L: 0.36' x H: 0')
CIE Type: General Diffuse

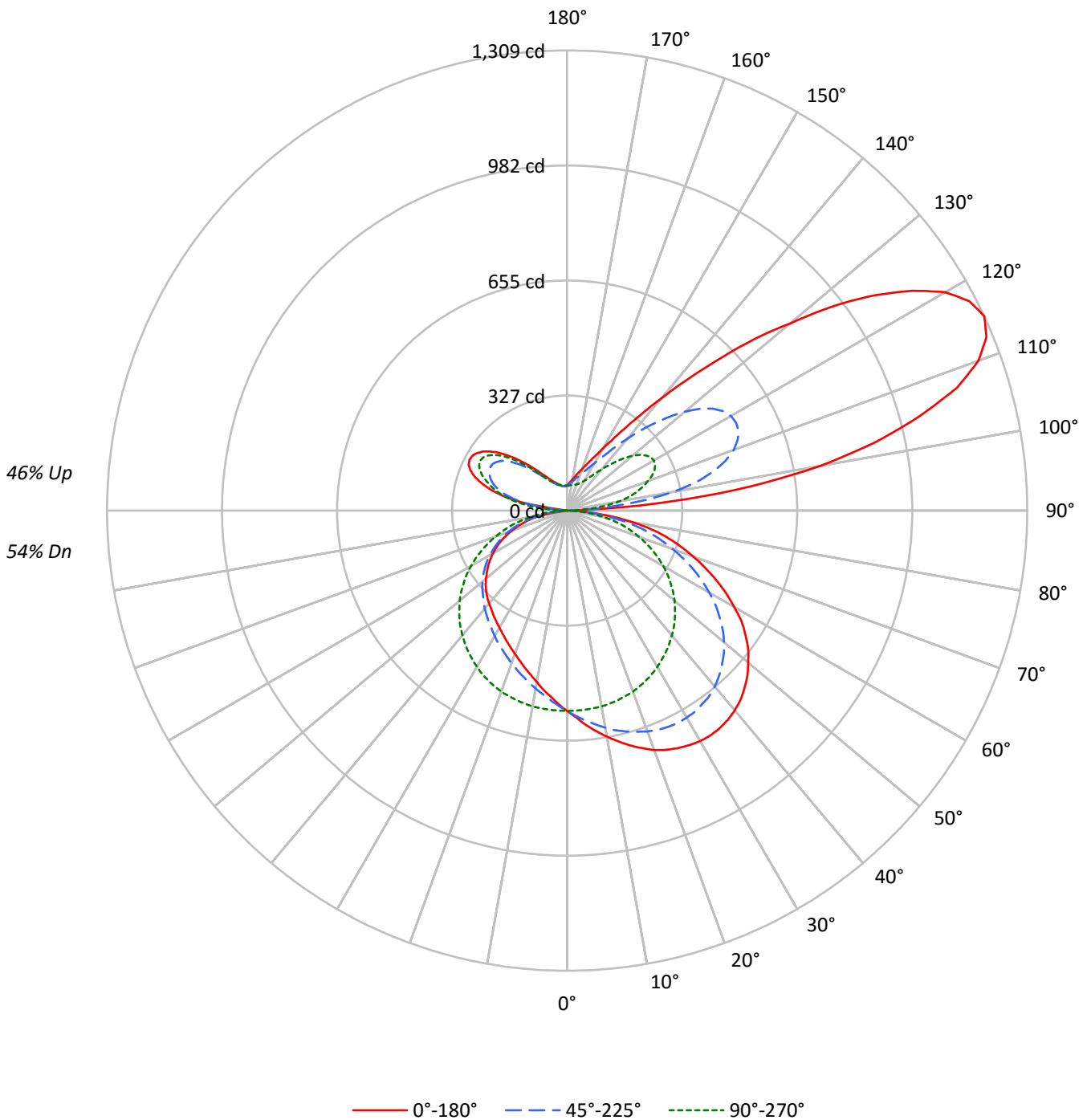
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	100	100	100	86	86	86	72	72	72	60	60	60	54
1	98	93	89	85	91	87	83	80	74	72	69	63	61	59	52	51	49	44
2	89	81	74	69	82	75	69	64	64	60	56	54	51	48	45	43	41	36
3	81	70	63	56	74	65	59	53	56	51	46	47	43	40	39	36	34	30
4	73	62	54	47	68	58	50	44	49	44	39	42	37	34	35	31	29	25
5	67	55	46	40	62	51	43	38	44	38	33	37	32	29	31	27	24	21
6	62	49	40	34	57	46	38	32	39	33	29	33	29	25	28	24	21	18
7	57	44	36	30	52	41	34	28	35	29	25	30	25	22	25	22	19	16
8	53	40	32	26	49	37	30	25	32	26	22	28	23	19	23	19	17	14
9	49	36	29	23	45	34	27	22	29	24	20	25	21	17	21	18	15	13
10	46	33	26	21	42	31	24	20	27	21	18	23	19	15	20	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	4353	4353	4353
5°	4694	4360	4074
10°	5067	4390	3843
15°	5471	4415	3664
20°	5895	4455	3527
25°	6285	4489	3440
30°	6679	4528	3396
35°	7050	4572	3399
40°	7397	4620	3443
45°	7709	4687	3522
50°	7992	4743	3585
55°	8255	4786	3657
60°	8393	4824	3725
65°	8467	4848	3782
70°	8513	4845	3726
75°	8675	4850	3637
80°	8297	4628	2538
85°	5961	3603	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.4
10°-20°	160.9	4.2
20°-30°	256.8	6.7
30°-40°	330.4	8.6
40°-50°	369.6	9.7
50°-60°	362.2	9.5
60°-70°	301.9	7.9
70°-80°	195.7	5.1
80°-90°	48.5	1.3
90°-100°	114.0	3.0
100°-110°	385.5	10.1
110°-120°	463.0	12.1
120°-130°	379.0	9.9
130°-140°	222.3	5.8
140°-150°	104.1	2.7
150°-160°	50.0	1.3
160°-170°	24.0	0.6
170°-180°	7.1	0.2
0°-30°	472.1	12.3
0°-40°	802.5	21.0
0°-60°	1534.4	40.1
0°-90°	2080.4	54.3
90°-120°	962.5	25.1
90°-150°	1667.9	43.6
90°-180°	1749.0	45.7
0°-180°	3829.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	570	570	570	570	570	
5°	612	599	568	542	531	60
15°	692	651	558	488	463	197
25°	746	679	533	436	408	345
35°	756	671	490	388	364	473
45°	714	622	434	339	326	550
55°	620	530	359	286	275	553
65°	468	396	268	218	209	462
75°	294	241	164	132	123	306
85°	68	58	41	3	0	81
90°	12	8	0	0	0	14
95°	298	119	71	4	0	331
105°	1038	431	205	185	221	1079
115°	1309	538	275	244	309	1274
125°	1068	506	273	242	293	951
135°	606	350	198	182	210	479
145°	285	200	119	117	130	187
155°	157	127	86	86	91	75
165°	106	95	76	74	74	31
175°	80	76	72	69	69	8
180°	71	71	71	71	71	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	569.8	569.8	569.8	569.8	569.8	569.8	569.8	569.8	569.8	569.8	569.8
2.5°	589.0	590.3	590.3	589.0	587.7	585.2	582.6	578.8	576.2	572.3	569.8
5°	612.1	612.1	612.1	608.3	604.4	599.3	592.9	586.5	580.0	573.6	568.5
7.5°	632.7	633.9	631.4	627.5	621.1	613.4	604.4	594.2	583.9	572.3	567.2
10°	653.2	654.5	650.6	646.8	637.8	627.5	614.7	599.3	585.2	571.1	565.9
12.5°	672.4	673.7	669.9	664.7	654.5	640.4	623.7	604.4	586.5	571.1	562.1
15°	691.7	691.7	687.8	681.4	667.3	650.6	631.4	608.3	586.5	567.2	558.2
17.5°	708.4	707.1	703.2	694.3	678.9	659.6	636.5	609.6	585.2	563.4	553.1
20°	725.1	723.8	718.6	708.4	691.7	668.6	642.9	612.1	583.9	559.5	548.0
22.5°	736.6	735.3	730.2	718.6	700.7	675.0	645.5	610.8	580.0	554.4	540.3
25°	745.6	745.6	739.2	727.6	707.1	678.9	646.8	609.6	576.2	546.7	532.6
27.5°	752.0	752.0	745.6	732.8	710.9	681.4	645.5	607.0	569.8	539.0	523.6
30°	757.1	755.9	749.4	734.0	712.2	680.1	642.9	601.9	563.4	530.0	513.3
32.5°	758.4	757.1	749.4	734.0	709.7	677.6	639.1	595.4	554.4	519.7	501.8
35°	755.9	754.6	746.9	730.2	704.5	671.2	631.4	586.5	544.1	508.2	490.2
37.5°	750.7	750.7	741.7	725.1	699.4	664.7	623.7	577.5	533.9	495.4	477.4
40°	741.7	741.7	732.8	714.8	689.1	653.2	612.1	565.9	521.0	481.2	463.3
42.5°	730.2	728.9	718.6	700.7	673.7	639.1	598.0	550.5	506.9	465.8	449.2
45°	713.5	712.2	703.2	685.3	657.0	622.4	581.3	535.1	491.5	450.4	433.8
47.5°	695.5	694.3	684.0	666.0	639.1	604.4	563.4	518.5	474.8	435.0	415.8
50°	672.4	672.4	662.2	644.2	617.3	582.6	541.6	497.9	455.6	415.8	399.1
52.5°	649.3	646.8	636.5	617.3	591.6	558.2	518.5	476.1	435.0	396.5	379.9
55°	619.8	616.0	607.0	589.0	563.4	530.0	492.8	451.7	413.2	376.0	359.3
57.5°	589.0	585.2	573.6	555.7	531.3	500.5	464.6	426.1	390.1	354.2	338.8
60°	549.3	549.3	537.7	519.7	496.6	467.1	435.0	399.1	364.5	331.1	315.7
62.5°	509.5	510.8	499.2	481.2	459.4	432.5	403.0	369.6	337.5	308.0	292.6
65°	468.4	468.4	456.9	440.2	420.9	396.5	368.3	338.8	309.3	282.3	268.2
67.5°	424.8	424.8	415.8	397.8	379.9	358.0	333.7	308.0	281.0	255.4	242.5
70°	381.1	379.9	372.2	355.5	338.8	319.5	297.7	275.9	251.5	228.4	216.9
72.5°	337.5	336.2	329.8	313.1	299.0	281.0	263.1	242.5	222.0	201.5	191.2
75°	293.9	291.3	284.9	269.5	256.7	241.3	223.3	209.2	191.2	173.2	164.3
77.5°	245.1	243.8	237.4	222.0	211.7	198.9	184.8	172.0	159.1	142.4	136.0
80°	188.6	186.1	182.2	169.4	163.0	152.7	142.4	133.5	123.2	111.6	105.2
82.5°	125.8	124.5	123.2	116.8	110.4	105.2	98.8	92.4	86.0	77.0	74.4
85°	68.0	69.3	68.0	64.2	60.3	57.7	56.5	52.6	50.0	43.6	41.1
87.5°	20.5	21.8	21.8	21.8	21.8	21.8	21.8	19.2	18.0	15.4	12.8
90°	11.5	11.5	11.5	10.3	10.3	7.7	6.4	3.8	2.6	0.0	0.0
92.5°	60.3	62.9	65.4	59.0	46.2	34.6	30.8	32.1	29.5	28.2	24.4
95°	297.7	296.4	286.2	247.7	180.9	119.3	96.2	92.4	83.4	78.3	70.6
97.5°	526.2	522.3	497.9	426.1	331.1	214.3	161.7	146.3	132.2	123.2	112.9
100°	728.9	723.8	686.6	594.2	459.4	306.7	224.6	195.1	175.8	160.4	150.1
102.5°	898.3	893.2	844.4	726.3	557.0	377.3	277.2	237.4	211.7	192.5	180.9
105°	1038.2	1034.3	972.7	830.3	631.4	431.2	318.3	270.8	241.3	216.9	205.3
107.5°	1162.7	1147.3	1067.7	909.9	684.0	472.3	351.6	300.3	266.9	240.0	225.9
110°	1244.8	1229.4	1139.6	961.2	717.4	504.3	382.4	326.0	290.0	259.2	243.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1291.0	1280.7	1180.6	988.1	735.3	524.9	405.5	347.8	309.3	277.2	261.8
115°	1309.0	1294.8	1188.3	986.9	736.6	537.7	423.5	365.7	326.0	288.7	274.6
117.5°	1289.7	1274.3	1165.2	962.5	725.1	541.6	435.0	376.0	333.7	297.7	282.3
120°	1242.2	1224.3	1115.2	921.4	703.2	537.7	440.2	381.1	338.8	301.6	284.9
122.5°	1163.9	1147.3	1042.0	862.4	669.9	526.2	435.0	378.6	336.2	297.7	282.3
125°	1067.7	1049.7	954.8	795.6	628.8	505.6	423.5	368.3	326.0	290.0	273.3
127.5°	956.1	936.8	859.8	719.9	580.0	474.8	403.0	350.3	309.3	275.9	260.5
130°	827.7	821.3	755.9	640.4	530.0	437.6	373.4	324.7	287.5	256.7	242.5
132.5°	721.2	702.0	650.6	559.5	471.0	395.3	338.8	295.2	260.5	233.6	220.7
135°	605.7	591.6	551.8	481.2	413.2	350.3	301.6	263.1	232.3	207.9	197.6
137.5°	504.3	496.6	463.3	413.2	356.8	308.0	265.6	231.0	204.0	183.5	174.5
140°	415.8	410.7	387.6	347.8	305.4	266.9	231.0	201.5	178.4	160.4	152.7
142.5°	342.6	338.8	322.1	292.6	261.8	231.0	200.2	177.1	155.3	141.2	134.7
145°	284.9	282.3	269.5	249.0	223.3	200.2	175.8	155.3	137.3	124.5	119.3
147.5°	238.7	237.4	228.4	214.3	195.1	174.5	155.3	137.3	121.9	111.6	106.5
150°	204.0	202.8	197.6	184.8	170.7	155.3	138.6	124.5	110.4	101.4	97.5
152.5°	177.1	175.8	172.0	163.0	152.7	139.9	125.8	114.2	102.7	93.7	91.1
155°	156.6	155.3	152.7	146.3	137.3	127.0	115.5	105.2	95.0	88.5	86.0
157.5°	139.9	139.9	137.3	132.2	124.5	116.8	107.8	98.8	89.8	84.7	82.1
160°	127.0	127.0	124.5	119.3	115.5	107.8	100.1	92.4	86.0	82.1	79.6
162.5°	115.5	115.5	112.9	110.4	106.5	100.1	95.0	88.5	83.4	79.6	77.0
165°	106.5	106.5	105.2	102.7	98.8	95.0	89.8	84.7	79.6	77.0	75.7
167.5°	97.5	98.8	97.5	95.0	92.4	88.5	84.7	80.8	78.3	75.7	74.4
170°	91.1	91.1	89.8	88.5	87.3	83.4	82.1	79.6	75.7	74.4	73.1
172.5°	84.7	84.7	83.4	83.4	82.1	80.8	78.3	77.0	74.4	73.1	73.1
175°	79.6	79.6	78.3	78.3	78.3	75.7	75.7	74.4	73.1	73.1	71.9
177.5°	75.7	75.7	75.7	74.4	74.4	74.4	74.4	73.1	71.9	71.9	70.6
180°	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6	70.6



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	569.8	569.8	569.8	569.8
2.5°	563.4	555.7	551.8	551.8
5°	554.4	541.6	533.9	531.3
7.5°	546.7	527.4	517.2	514.6
10°	536.4	514.6	500.5	495.4
12.5°	526.2	500.5	485.1	478.7
15°	514.6	487.7	469.7	463.3
17.5°	504.3	474.8	455.6	447.9
20°	492.8	462.0	441.5	433.8
22.5°	482.5	449.2	428.6	420.9
25°	471.0	436.3	415.8	408.1
27.5°	459.4	424.8	403.0	396.5
30°	446.6	411.9	391.4	385.0
32.5°	436.3	399.1	381.1	374.7
35°	423.5	387.6	369.6	364.5
37.5°	410.7	376.0	359.3	354.2
40°	396.5	364.5	349.1	345.2
42.5°	383.7	351.6	338.8	336.2
45°	369.6	338.8	328.5	326.0
47.5°	355.5	327.2	317.0	314.4
50°	340.1	314.4	304.1	301.6
52.5°	323.4	300.3	290.0	287.5
55°	308.0	286.2	275.9	274.6
57.5°	290.0	270.8	260.5	259.2
60°	272.1	254.1	245.1	243.8
62.5°	252.8	236.1	227.1	227.1
65°	233.6	218.2	209.2	209.2
67.5°	213.0	198.9	191.2	188.6
70°	192.5	178.4	168.1	166.8
72.5°	172.0	156.6	145.0	145.0
75°	147.6	132.2	123.2	123.2
77.5°	124.5	106.5	98.8	98.8
80°	97.5	78.3	68.0	57.7
82.5°	65.4	46.2	2.6	0.0
85°	33.4	2.6	0.0	0.0
87.5°	3.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	3.8	0.0	0.0	0.0
95°	48.8	3.8	1.3	0.0
97.5°	95.0	73.1	7.7	0.0
100°	133.5	119.3	121.9	121.9
102.5°	160.4	156.6	172.0	180.9
105°	180.9	184.8	207.9	220.7
107.5°	197.6	207.9	237.4	252.8
110°	213.0	224.6	260.5	278.5



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	225.9	236.1	277.2	297.7
115°	236.1	243.8	286.2	309.3
117.5°	242.5	249.0	290.0	313.1
120°	245.1	251.5	288.7	311.8
122.5°	242.5	249.0	282.3	304.1
125°	236.1	242.5	272.1	292.6
127.5°	225.9	232.3	259.2	275.9
130°	210.5	216.9	241.3	256.7
132.5°	193.8	200.2	222.0	233.6
135°	174.5	182.2	200.2	210.5
137.5°	155.3	163.0	178.4	187.4
140°	138.6	145.0	157.8	165.5
142.5°	123.2	129.6	139.9	146.3
145°	110.4	116.8	124.5	129.6
147.5°	100.1	106.5	112.9	116.8
150°	92.4	97.5	103.9	105.2
152.5°	87.3	91.1	95.0	97.5
155°	82.1	86.0	89.8	91.1
157.5°	78.3	82.1	83.4	86.0
160°	75.7	78.3	80.8	80.8
162.5°	74.4	75.7	77.0	78.3
165°	73.1	74.4	74.4	74.4
167.5°	71.9	71.9	71.9	71.9
170°	71.9	70.6	70.6	70.6
172.5°	70.6	70.6	69.3	70.6
175°	70.6	69.3	69.3	69.3
177.5°	70.6	70.6	70.6	70.6
180°	70.6	70.6	70.6	70.6

(END OF REPORT)