

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: P286871

Luminaire Tested: **DWI-WA-40L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286871
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-40L840-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3989.7 lumens
Efficiency: N/A
Efficacy: 125.5 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

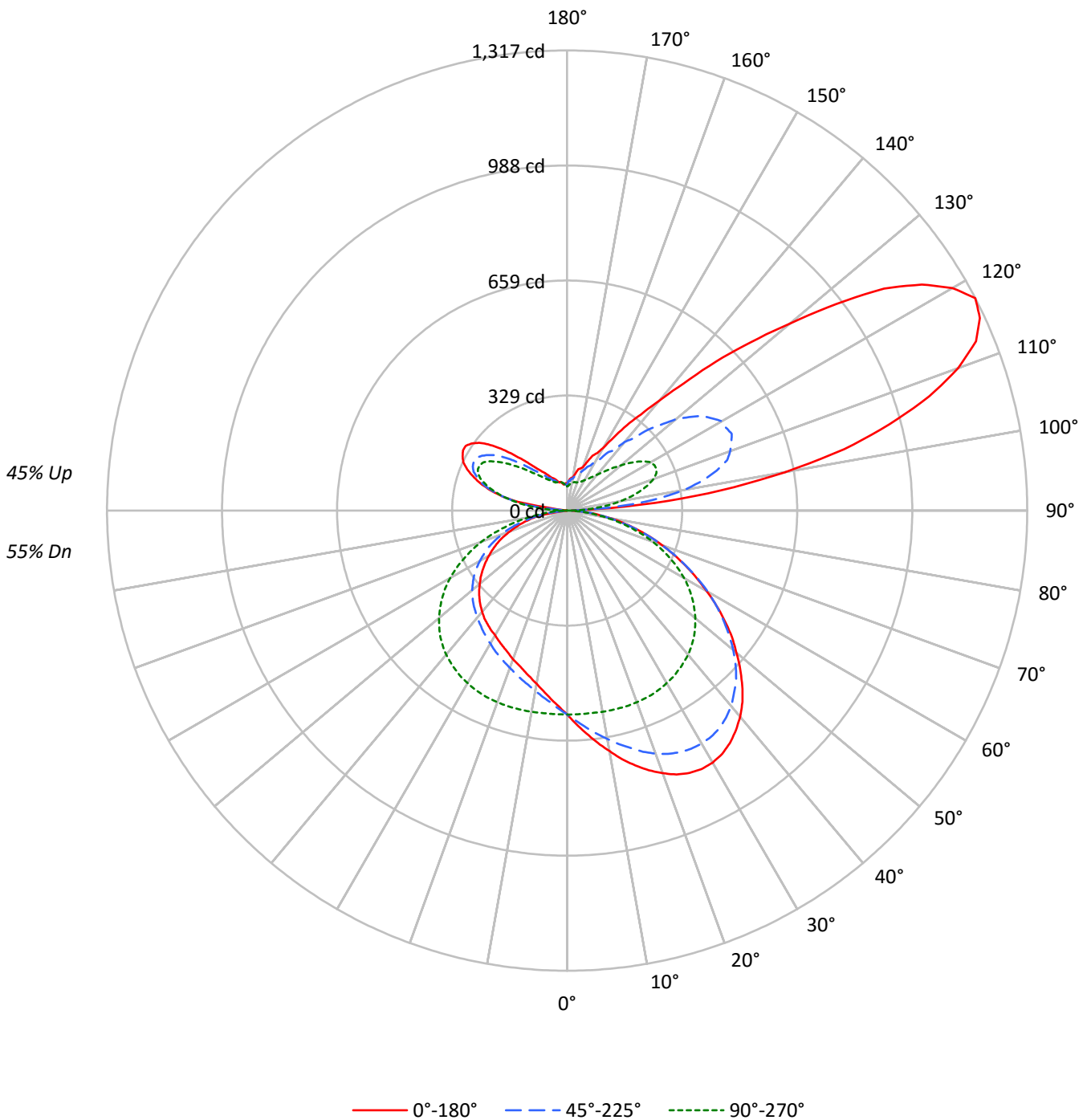
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	4458	4458	4458
5°	4913	4476	4142
10°	5424	4538	3904
15°	5971	4627	3755
20°	6503	4745	3683
25°	6984	4885	3635
30°	7345	5028	3636
35°	7575	5189	3704
40°	7679	5372	3772
45°	7658	5541	3837
50°	7519	5692	3880
55°	7339	5817	3932
60°	7047	5904	3950
65°	6763	5902	3984
70°	6442	5834	3889
75°	6063	5502	3734
80°	5565	4910	3410
85°	4891	4058	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.3	1.4
10°-20°	170.6	4.3
20°-30°	280.8	7.0
30°-40°	366.6	9.2
40°-50°	406.3	10.2
50°-60°	386.2	9.7
60°-70°	308.9	7.7
70°-80°	186.0	4.7
80°-90°	46.2	1.2
90°-100°	117.7	3.0
100°-110°	392.7	9.8
110°-120°	477.5	12.0
120°-130°	382.3	9.6
130°-140°	216.5	5.4
140°-150°	105.9	2.7
150°-160°	54.6	1.4
160°-170°	26.8	0.7
170°-180°	7.8	0.2
0°-30°	507.7	12.7
0°-40°	874.3	21.9
0°-60°	1666.8	41.8
0°-90°	2207.9	55.3
90°-120°	987.9	24.8
90°-150°	1692.6	42.4
90°-180°	1782.0	44.7
0°-180°	3989.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	584	584	584	584	584	
5°	641	623	584	551	540	63
15°	755	703	585	501	475	215
25°	828	763	580	460	431	382
35°	812	760	556	420	397	507
45°	709	684	513	380	355	545
55°	551	546	437	325	295	492
65°	374	377	326	248	220	371
75°	205	203	186	144	126	218
85°	56	53	46	4	0	60
90°	14	10	0	0	0	13
95°	253	165	82	8	0	281
105°	955	444	218	224	228	994
115°	1303	520	282	298	328	1270
125°	1107	472	244	278	335	976
135°	603	328	165	190	235	475
145°	298	204	114	125	144	191
155°	174	139	91	95	103	80
165°	122	103	84	82	83	34
175°	91	84	75	76	78	9
180°	69	69	69	69	69	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6	583.6
2.5°	612.2	612.2	610.8	609.5	606.7	602.7	598.6	594.5	590.4	586.3	583.6
5°	640.7	640.7	638.0	635.3	629.9	623.1	614.9	608.1	597.2	589.1	583.6
7.5°	670.7	670.7	666.6	661.2	654.3	643.5	632.6	620.3	604.0	591.8	583.6
10°	699.2	699.2	695.2	689.7	678.8	663.9	648.9	631.2	612.2	594.5	585.0
12.5°	729.2	729.2	722.4	715.6	702.0	684.3	665.2	642.1	620.3	595.9	585.0
15°	755.0	755.0	749.6	741.4	725.1	703.3	680.2	651.6	625.8	598.6	585.0
17.5°	779.5	779.5	774.1	763.2	746.9	723.7	695.2	661.2	631.2	599.9	585.0
20°	799.9	799.9	794.5	783.6	765.9	740.1	707.4	672.0	635.3	601.3	583.6
22.5°	817.6	816.2	810.8	798.6	780.9	753.7	719.6	677.5	639.4	601.3	582.2
25°	828.5	827.1	821.7	810.8	790.4	763.2	726.5	681.6	640.7	601.3	579.5
27.5°	833.9	832.6	828.5	816.2	797.2	768.6	731.9	685.6	640.7	599.9	575.4
30°	832.6	832.6	827.1	817.6	798.6	770.0	733.3	685.6	639.4	595.9	570.0
32.5°	825.8	824.4	820.3	812.2	794.5	767.3	731.9	682.9	636.7	590.4	564.6
35°	812.2	812.2	809.4	801.3	786.3	760.5	723.7	676.1	629.9	582.2	556.4
37.5°	793.1	793.1	791.7	784.9	771.3	746.9	712.8	668.0	620.3	574.1	548.2
40°	770.0	771.3	768.6	763.2	752.3	730.5	699.2	655.7	609.5	563.2	538.7
42.5°	742.8	742.8	740.1	737.3	727.8	707.4	680.2	639.4	595.9	549.6	526.5
45°	708.8	708.8	707.4	706.0	697.9	684.3	658.4	620.3	579.5	534.6	512.9
47.5°	672.0	673.4	672.0	672.0	666.6	654.3	631.2	595.9	560.5	518.3	496.5
50°	632.6	635.3	633.9	635.3	629.9	620.3	601.3	571.4	538.7	499.3	478.9
52.5°	594.5	593.1	591.8	594.5	591.8	583.6	567.3	544.2	512.9	477.5	458.5
55°	551.0	549.6	551.0	553.7	551.0	545.5	533.3	511.5	485.7	454.4	436.7
57.5°	507.4	506.1	507.4	510.1	508.8	506.1	495.2	477.5	457.1	428.5	413.6
60°	461.2	462.5	463.9	465.3	468.0	465.3	454.4	442.1	425.8	401.3	386.4
62.5°	417.6	417.6	420.4	421.7	423.1	420.4	414.9	404.0	393.2	371.4	357.8
65°	374.1	374.1	375.5	376.8	379.5	376.8	372.7	365.9	356.4	338.7	326.5
67.5°	331.9	330.6	331.9	334.7	333.3	333.3	327.9	326.5	318.3	304.7	295.2
70°	288.4	287.0	288.4	288.4	289.8	288.4	287.0	285.7	278.9	272.1	261.2
72.5°	247.6	244.9	246.2	247.6	246.2	246.2	243.5	243.5	239.4	234.0	224.5
75°	205.4	204.1	204.1	204.1	204.1	202.7	198.6	201.3	200.0	195.9	186.4
77.5°	164.6	164.6	166.0	163.2	164.6	160.5	161.9	159.2	160.5	156.4	149.6
80°	126.5	125.2	125.2	125.2	125.2	122.4	121.1	119.7	122.4	118.4	111.6
82.5°	87.1	88.4	87.1	85.7	87.1	87.1	85.7	83.0	84.3	80.3	76.2
85°	55.8	55.8	55.8	53.1	53.1	53.1	54.4	53.1	51.7	49.0	46.3
87.5°	25.8	27.2	27.2	27.2	27.2	25.8	25.8	24.5	23.1	21.8	20.4
90°	13.6	13.6	12.2	12.2	10.9	9.5	8.2	5.4	4.1	1.4	0.0
92.5°	40.8	32.6	42.2	44.9	44.9	44.9	39.5	36.7	38.1	38.1	39.5
95°	253.0	242.2	250.3	239.4	210.9	164.6	110.2	88.4	84.3	80.3	81.6
97.5°	444.8	434.0	438.0	413.6	356.4	262.6	172.8	134.7	127.9	119.7	119.7
100°	632.6	624.4	614.9	579.5	485.7	340.1	224.5	176.9	168.7	157.8	155.1
102.5°	812.2	798.6	778.1	715.6	591.8	397.2	266.6	213.6	206.8	191.8	187.7
105°	955.0	942.8	921.0	824.4	665.2	443.5	299.3	247.6	240.8	221.7	217.7
107.5°	1087.0	1080.2	1025.7	919.6	715.6	480.2	331.9	280.2	268.0	249.0	242.2
110°	1190.3	1179.5	1125.0	983.6	750.9	496.5	363.2	310.2	287.0	270.7	262.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1266.5	1258.4	1176.7	1013.5	752.3	508.8	380.9	329.2	299.3	285.7	276.2
115°	1303.3	1291.0	1209.4	1017.6	746.9	519.7	393.2	337.4	308.8	295.2	281.6
117.5°	1316.9	1303.3	1191.7	989.0	719.6	512.9	406.8	344.2	312.9	296.6	281.6
120°	1273.3	1261.1	1150.9	940.0	695.2	511.5	404.0	351.0	314.3	292.5	276.2
122.5°	1203.9	1189.0	1081.5	880.2	648.9	491.1	393.2	340.1	307.4	280.2	262.6
125°	1107.4	1093.8	972.7	793.1	612.2	472.1	385.0	321.1	288.4	261.2	243.5
127.5°	971.3	963.2	865.2	716.9	552.3	439.4	355.1	304.7	262.6	240.8	223.1
130°	832.6	827.1	760.5	635.3	504.7	406.8	333.3	284.3	236.7	217.7	201.3
132.5°	712.8	708.8	643.5	544.2	446.2	361.9	299.3	250.3	217.7	194.5	182.3
135°	602.7	601.3	541.4	472.1	389.1	327.9	265.3	225.8	200.0	174.1	164.6
137.5°	492.5	492.5	461.2	405.4	345.5	280.2	242.2	209.5	180.9	156.4	146.9
140°	409.5	404.0	387.7	334.7	289.8	255.8	208.1	182.3	159.2	141.5	134.7
142.5°	346.9	341.5	314.3	288.4	254.4	216.3	197.3	163.2	141.5	127.9	123.8
145°	297.9	296.6	268.0	258.5	228.5	204.1	168.7	156.4	132.0	117.0	114.3
147.5°	247.6	247.6	240.8	216.3	193.2	174.1	161.9	137.4	126.5	108.8	106.1
150°	208.1	208.1	209.5	191.8	182.3	167.3	144.2	126.5	119.7	103.4	100.7
152.5°	185.0	186.4	176.9	180.9	160.5	145.6	133.3	125.2	108.8	97.9	95.2
155°	174.1	175.5	161.9	155.1	144.2	138.8	129.2	112.9	100.7	95.2	91.1
157.5°	151.0	153.7	155.1	138.8	141.5	126.5	112.9	103.4	96.6	93.9	87.1
160°	132.0	133.3	134.7	137.4	121.1	118.4	115.6	106.1	97.9	92.5	85.7
162.5°	126.5	125.2	121.1	121.1	118.4	112.9	100.7	99.3	96.6	91.1	84.3
165°	122.4	123.8	119.7	107.5	110.2	103.4	102.0	89.8	89.8	88.4	84.3
167.5°	107.5	108.8	110.2	108.8	97.9	100.7	93.9	92.5	84.3	87.1	83.0
170°	95.2	96.6	95.2	97.9	100.7	92.5	89.8	91.1	83.0	85.7	81.6
172.5°	95.2	93.9	92.5	88.4	87.1	92.5	89.8	83.0	84.3	83.0	78.9
175°	91.1	92.5	92.5	91.1	88.4	84.3	81.6	83.0	84.3	78.9	74.8
177.5°	83.0	84.3	83.0	84.3	84.3	85.7	85.7	84.3	78.9	73.5	70.7
180°	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4	69.4



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	583.6	583.6	583.6	583.6
2.5°	575.4	567.3	561.8	560.5
5°	565.9	551.0	542.8	540.1
7.5°	557.8	537.4	525.1	521.0
10°	549.6	523.8	508.8	503.3
12.5°	540.1	511.5	493.8	488.4
15°	533.3	500.6	481.6	474.8
17.5°	525.1	489.7	469.3	462.5
20°	516.9	478.9	458.5	453.0
22.5°	510.1	469.3	448.9	440.8
25°	502.0	459.8	438.0	431.2
27.5°	493.8	450.3	428.5	421.7
30°	485.7	439.4	419.0	412.2
32.5°	476.1	429.9	410.8	405.4
35°	468.0	420.4	402.7	397.2
37.5°	458.5	409.5	393.2	389.1
40°	447.6	400.0	383.6	378.2
42.5°	436.7	389.1	374.1	367.3
45°	424.4	379.5	363.2	355.1
47.5°	412.2	367.3	349.6	341.5
50°	397.2	355.1	334.7	326.5
52.5°	380.9	340.1	319.7	311.5
55°	364.6	325.1	303.4	295.2
57.5°	346.9	307.4	285.7	277.5
60°	326.5	288.4	268.0	258.5
62.5°	304.7	268.0	247.6	239.4
65°	283.0	247.6	227.2	220.4
67.5°	259.8	223.1	204.1	198.6
70°	231.3	198.6	179.6	174.1
72.5°	201.3	174.1	153.7	151.0
75°	171.4	144.2	129.2	126.5
77.5°	140.1	114.3	104.8	103.4
80°	107.5	85.7	78.9	77.5
82.5°	73.5	57.1	6.8	0.0
85°	40.8	4.1	1.4	0.0
87.5°	4.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	9.5	1.4	0.0	0.0
95°	72.1	8.2	1.4	0.0
97.5°	121.1	106.1	39.5	0.0
100°	160.5	152.4	148.3	142.8
102.5°	190.5	190.5	193.2	191.8
105°	214.9	224.5	227.2	228.5
107.5°	238.1	253.0	258.5	261.2
110°	257.1	272.1	285.7	287.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	266.6	289.8	304.7	310.2
115°	270.7	297.9	321.1	327.9
117.5°	270.7	302.0	330.6	337.4
120°	268.0	300.6	333.3	344.2
122.5°	257.1	291.1	331.9	344.2
125°	239.4	277.5	319.7	334.7
127.5°	221.7	259.8	300.6	318.3
130°	204.1	238.1	280.2	295.2
132.5°	182.3	214.9	251.7	265.3
135°	163.2	190.5	223.1	235.3
137.5°	149.6	171.4	197.3	206.8
140°	136.0	152.4	175.5	182.3
142.5°	121.1	140.1	153.7	160.5
145°	112.9	125.2	140.1	144.2
147.5°	107.5	118.4	129.2	132.0
150°	99.3	107.5	117.0	122.4
152.5°	93.9	104.8	110.2	111.6
155°	92.5	95.2	104.8	103.4
157.5°	89.8	93.9	95.2	99.3
160°	83.0	87.1	91.1	93.9
162.5°	81.6	87.1	89.8	87.1
165°	83.0	81.6	83.0	83.0
167.5°	78.9	81.6	78.9	84.3
170°	76.2	76.2	80.3	78.9
172.5°	78.9	78.9	74.8	74.8
175°	78.9	76.2	74.8	77.5
177.5°	68.0	74.8	77.5	78.9
180°	69.4	69.4	69.4	69.4

(END OF REPORT)