

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: P286865

Luminaire Tested: **DWI-WA-40L835-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286865
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-40L835-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM SPECULAR OPTIC, ASYMMETRIC
Light Source: (154) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3952.0 lumens
Efficiency: N/A
Efficacy: 124.3 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

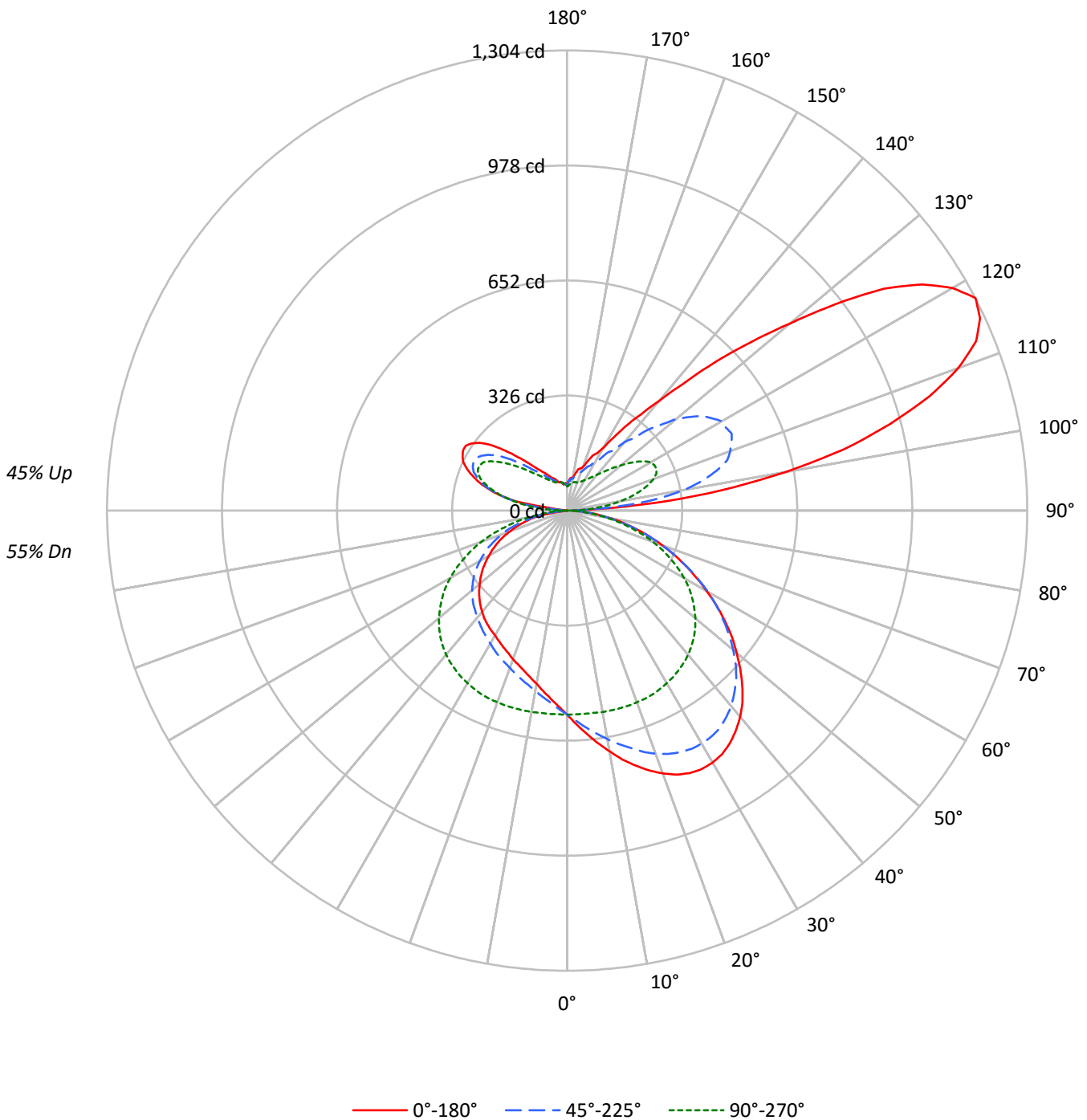
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4416	4416	4416
5°	4867	4433	4103
10°	5373	4495	3868
15°	5915	4583	3720
20°	6442	4700	3648
25°	6918	4839	3601
30°	7275	4981	3602
35°	7503	5141	3670
40°	7606	5321	3736
45°	7586	5488	3800
50°	7447	5637	3844
55°	7270	5762	3895
60°	6980	5847	3911
65°	6699	5846	3946
70°	6382	5779	3853
75°	6007	5449	3699
80°	5513	4861	3379
85°	4839	4015	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.4
10°-20°	169.0	4.3
20°-30°	278.1	7.0
30°-40°	363.2	9.2
40°-50°	402.4	10.2
50°-60°	382.6	9.7
60°-70°	306.0	7.7
70°-80°	184.2	4.7
80°-90°	45.8	1.2
90°-100°	116.6	2.9
100°-110°	389.0	9.8
110°-120°	473.0	12.0
120°-130°	378.7	9.6
130°-140°	214.4	5.4
140°-150°	104.9	2.7
150°-160°	54.1	1.4
160°-170°	26.5	0.7
170°-180°	7.8	0.2
0°-30°	502.9	12.7
0°-40°	866.1	21.9
0°-60°	1651.1	41.8
0°-90°	2187.1	55.3
90°-120°	978.6	24.8
90°-150°	1676.6	42.4
90°-180°	1765.0	44.7
0°-180°	3952.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	578	578	578	578	578	
5°	635	617	578	546	535	62
15°	748	697	580	496	470	213
25°	821	756	574	456	427	378
35°	804	753	551	416	394	502
45°	702	678	508	376	352	540
55°	546	540	433	322	292	487
65°	371	373	323	245	218	367
75°	204	201	185	143	125	216
85°	55	53	46	4	0	59
90°	14	9	0	0	0	13
95°	251	163	81	8	0	279
105°	946	439	216	222	226	984
115°	1291	515	279	295	325	1258
125°	1097	468	241	275	332	967
135°	597	325	163	189	233	470
145°	295	202	113	124	143	189
155°	172	138	90	94	102	79
165°	121	102	84	81	82	34
175°	90	84	74	76	77	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°	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1	578.1
2.5°	606.4	606.4	605.1	603.7	601.0	597.0	592.9	588.9	584.8	580.8	578.1
5°	634.7	634.7	632.0	629.3	623.9	617.2	609.1	602.4	591.6	583.5	578.1
7.5°	664.3	664.3	660.3	654.9	648.2	637.4	626.6	614.5	598.3	586.2	578.1
10°	692.6	692.6	688.6	683.2	672.4	657.6	642.8	625.3	606.4	588.9	579.5
12.5°	722.3	722.3	715.6	708.8	695.3	677.8	659.0	636.0	614.5	590.2	579.5
15°	747.9	747.9	742.5	734.4	718.2	696.7	673.8	645.5	619.9	592.9	579.5
17.5°	772.2	772.2	766.8	756.0	739.8	716.9	688.6	654.9	625.3	594.3	579.5
20°	792.4	792.4	787.0	776.2	758.7	733.1	700.7	665.7	629.3	595.6	578.1
22.5°	809.9	808.5	803.1	791.0	773.5	746.5	712.9	671.1	633.4	595.6	576.8
25°	820.7	819.3	813.9	803.1	782.9	756.0	719.6	675.1	634.7	595.6	574.1
27.5°	826.1	824.7	820.7	808.5	789.7	761.4	725.0	679.2	634.7	594.3	570.0
30°	824.7	824.7	819.3	809.9	791.0	762.7	726.3	679.2	633.4	590.2	564.6
32.5°	818.0	816.6	812.6	804.5	787.0	760.0	725.0	676.5	630.7	584.8	559.2
35°	804.5	804.5	801.8	793.7	778.9	753.3	716.9	669.7	623.9	576.8	551.2
37.5°	785.6	785.6	784.3	777.5	764.1	739.8	706.1	661.7	614.5	568.7	543.1
40°	762.7	764.1	761.4	756.0	745.2	723.6	692.6	649.5	603.7	557.9	533.6
42.5°	735.8	735.8	733.1	730.4	720.9	700.7	673.8	633.4	590.2	544.4	521.5
45°	702.1	702.1	700.7	699.4	691.3	677.8	652.2	614.5	574.1	529.6	508.0
47.5°	665.7	667.0	665.7	665.7	660.3	648.2	625.3	590.2	555.2	513.4	491.9
50°	626.6	629.3	628.0	629.3	623.9	614.5	595.6	566.0	533.6	494.6	474.3
52.5°	588.9	587.5	586.2	588.9	586.2	578.1	561.9	539.0	508.0	473.0	454.1
55°	545.8	544.4	545.8	548.5	545.8	540.4	528.2	506.7	481.1	450.1	432.6
57.5°	502.6	501.3	502.6	505.3	504.0	501.3	490.5	473.0	452.8	424.5	409.7
60°	456.8	458.2	459.5	460.9	463.6	460.9	450.1	438.0	421.8	397.5	382.7
62.5°	413.7	413.7	416.4	417.7	419.1	416.4	411.0	400.2	389.4	367.9	354.4
65°	370.6	370.6	371.9	373.3	376.0	373.3	369.2	362.5	353.1	335.5	323.4
67.5°	328.8	327.5	328.8	331.5	330.2	330.2	324.8	323.4	315.3	301.9	292.4
70°	285.7	284.3	285.7	285.7	287.0	285.7	284.3	283.0	276.2	269.5	258.7
72.5°	245.3	242.6	243.9	245.3	243.9	243.9	241.2	241.2	237.2	231.8	222.3
75°	203.5	202.1	202.1	202.1	202.1	200.8	196.7	199.4	198.1	194.0	184.6
77.5°	163.1	163.1	164.4	161.7	163.1	159.0	160.4	157.7	159.0	155.0	148.2
80°	125.3	124.0	124.0	124.0	124.0	121.3	119.9	118.6	121.3	117.2	110.5
82.5°	86.2	87.6	86.2	84.9	86.2	86.2	84.9	82.2	83.5	79.5	75.5
85°	55.2	55.2	55.2	52.6	52.6	52.6	53.9	52.6	51.2	48.5	45.8
87.5°	25.6	27.0	27.0	27.0	27.0	25.6	25.6	24.3	22.9	21.6	20.2
90°	13.5	13.5	12.1	12.1	10.8	9.4	8.1	5.4	4.0	1.3	0.0
92.5°	40.4	32.3	41.8	44.5	44.5	44.5	39.1	36.4	37.7	37.7	39.1
95°	250.6	239.9	248.0	237.2	208.9	163.1	109.2	87.6	83.5	79.5	80.9
97.5°	440.7	429.9	433.9	409.7	353.1	260.1	171.1	133.4	126.7	118.6	118.6
100°	626.6	618.5	609.1	574.1	481.1	336.9	222.3	175.2	167.1	156.3	153.6
102.5°	804.5	791.0	770.8	708.8	586.2	393.5	264.1	211.6	204.8	190.0	186.0
105°	946.0	933.9	912.3	816.6	659.0	439.3	296.5	245.3	238.5	219.7	215.6
107.5°	1076.7	1070.0	1016.1	911.0	708.8	475.7	328.8	277.6	265.5	246.6	239.9
110°	1179.1	1168.3	1114.4	974.3	743.9	491.9	359.8	307.2	284.3	268.2	260.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1254.6	1246.5	1165.6	1003.9	745.2	504.0	377.3	326.1	296.5	283.0	273.6
115°	1291.0	1278.8	1198.0	1008.0	739.8	514.8	389.4	334.2	305.9	292.4	278.9
117.5°	1304.4	1291.0	1180.5	979.7	712.9	508.0	402.9	340.9	309.9	293.8	278.9
120°	1261.3	1249.2	1140.0	931.2	688.6	506.7	400.2	347.7	311.3	289.7	273.6
122.5°	1192.6	1177.8	1071.3	871.9	642.8	486.5	389.4	336.9	304.5	277.6	260.1
125°	1096.9	1083.4	963.5	785.6	606.4	467.6	381.4	318.0	285.7	258.7	241.2
127.5°	962.2	954.1	857.0	710.2	547.1	435.3	351.7	301.9	260.1	238.5	221.0
130°	824.7	819.3	753.3	629.3	499.9	402.9	330.2	281.6	234.5	215.6	199.4
132.5°	706.1	702.1	637.4	539.0	442.0	358.5	296.5	248.0	215.6	192.7	180.6
135°	597.0	595.6	536.3	467.6	385.4	324.8	262.8	223.7	198.1	172.5	163.1
137.5°	487.8	487.8	456.8	401.6	342.3	277.6	239.9	207.5	179.2	155.0	145.5
140°	405.6	400.2	384.1	331.5	287.0	253.3	206.2	180.6	157.7	140.1	133.4
142.5°	343.6	338.2	311.3	285.7	252.0	214.3	195.4	161.7	140.1	126.7	122.6
145°	295.1	293.8	265.5	256.0	226.4	202.1	167.1	155.0	130.7	115.9	113.2
147.5°	245.3	245.3	238.5	214.3	191.4	172.5	160.4	136.1	125.3	107.8	105.1
150°	206.2	206.2	207.5	190.0	180.6	165.7	142.8	125.3	118.6	102.4	99.7
152.5°	183.3	184.6	175.2	179.2	159.0	144.2	132.1	124.0	107.8	97.0	94.3
155°	172.5	173.8	160.4	153.6	142.8	137.5	128.0	111.8	99.7	94.3	90.3
157.5°	149.6	152.3	153.6	137.5	140.1	125.3	111.8	102.4	95.7	93.0	86.2
160°	130.7	132.1	133.4	136.1	119.9	117.2	114.5	105.1	97.0	91.6	84.9
162.5°	125.3	124.0	119.9	119.9	117.2	111.8	99.7	98.4	95.7	90.3	83.5
165°	121.3	122.6	118.6	106.5	109.2	102.4	101.1	88.9	88.9	87.6	83.5
167.5°	106.5	107.8	109.2	107.8	97.0	99.7	93.0	91.6	83.5	86.2	82.2
170°	94.3	95.7	94.3	97.0	99.7	91.6	88.9	90.3	82.2	84.9	80.9
172.5°	94.3	93.0	91.6	87.6	86.2	91.6	88.9	82.2	83.5	82.2	78.2
175°	90.3	91.6	91.6	90.3	87.6	83.5	80.9	82.2	83.5	78.2	74.1
177.5°	82.2	83.5	82.2	83.5	83.5	84.9	84.9	83.5	78.2	72.8	70.1
180°	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7	68.7



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	578.1	578.1	578.1	578.1
2.5°	570.0	561.9	556.5	555.2
5°	560.6	545.8	537.7	535.0
7.5°	552.5	532.3	520.2	516.1
10°	544.4	518.8	504.0	498.6
12.5°	535.0	506.7	489.2	483.8
15°	528.2	495.9	477.0	470.3
17.5°	520.2	485.1	464.9	458.2
20°	512.1	474.3	454.1	448.7
22.5°	505.3	464.9	444.7	436.6
25°	497.2	455.5	433.9	427.2
27.5°	489.2	446.0	424.5	417.7
30°	481.1	435.3	415.0	408.3
32.5°	471.6	425.8	407.0	401.6
35°	463.6	416.4	398.9	393.5
37.5°	454.1	405.6	389.4	385.4
40°	443.3	396.2	380.0	374.6
42.5°	432.6	385.4	370.6	363.8
45°	420.4	376.0	359.8	351.7
47.5°	408.3	363.8	346.3	338.2
50°	393.5	351.7	331.5	323.4
52.5°	377.3	336.9	316.7	308.6
55°	361.1	322.1	300.5	292.4
57.5°	343.6	304.5	283.0	274.9
60°	323.4	285.7	265.5	256.0
62.5°	301.9	265.5	245.3	237.2
65°	280.3	245.3	225.0	218.3
67.5°	257.4	221.0	202.1	196.7
70°	229.1	196.7	177.9	172.5
72.5°	199.4	172.5	152.3	149.6
75°	169.8	142.8	128.0	125.3
77.5°	138.8	113.2	103.8	102.4
80°	106.5	84.9	78.2	76.8
82.5°	72.8	56.6	6.7	0.0
85°	40.4	4.0	1.3	0.0
87.5°	4.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	9.4	1.3	0.0	0.0
95°	71.4	8.1	1.3	0.0
97.5°	119.9	105.1	39.1	0.0
100°	159.0	150.9	146.9	141.5
102.5°	188.7	188.7	191.4	190.0
105°	212.9	222.3	225.0	226.4
107.5°	235.8	250.6	256.0	258.7
110°	254.7	269.5	283.0	284.3



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	264.1	287.0	301.9	307.2
115°	268.2	295.1	318.0	324.8
117.5°	268.2	299.2	327.5	334.2
120°	265.5	297.8	330.2	340.9
122.5°	254.7	288.4	328.8	340.9
125°	237.2	274.9	316.7	331.5
127.5°	219.7	257.4	297.8	315.3
130°	202.1	235.8	277.6	292.4
132.5°	180.6	212.9	249.3	262.8
135°	161.7	188.7	221.0	233.1
137.5°	148.2	169.8	195.4	204.8
140°	134.8	150.9	173.8	180.6
142.5°	119.9	138.8	152.3	159.0
145°	111.8	124.0	138.8	142.8
147.5°	106.5	117.2	128.0	130.7
150°	98.4	106.5	115.9	121.3
152.5°	93.0	103.8	109.2	110.5
155°	91.6	94.3	103.8	102.4
157.5°	88.9	93.0	94.3	98.4
160°	82.2	86.2	90.3	93.0
162.5°	80.9	86.2	88.9	86.2
165°	82.2	80.9	82.2	82.2
167.5°	78.2	80.9	78.2	83.5
170°	75.5	75.5	79.5	78.2
172.5°	78.2	78.2	74.1	74.1
175°	78.2	75.5	74.1	76.8
177.5°	67.4	74.1	76.8	78.2
180°	68.7	68.7	68.7	68.7

(END OF REPORT)