

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: P286866

Luminaire Tested: **DWI-WA-50L835-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286866
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-50L835-1D-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: 4897.0 lumens
Efficiency: N/A
Efficacy: 118.6 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

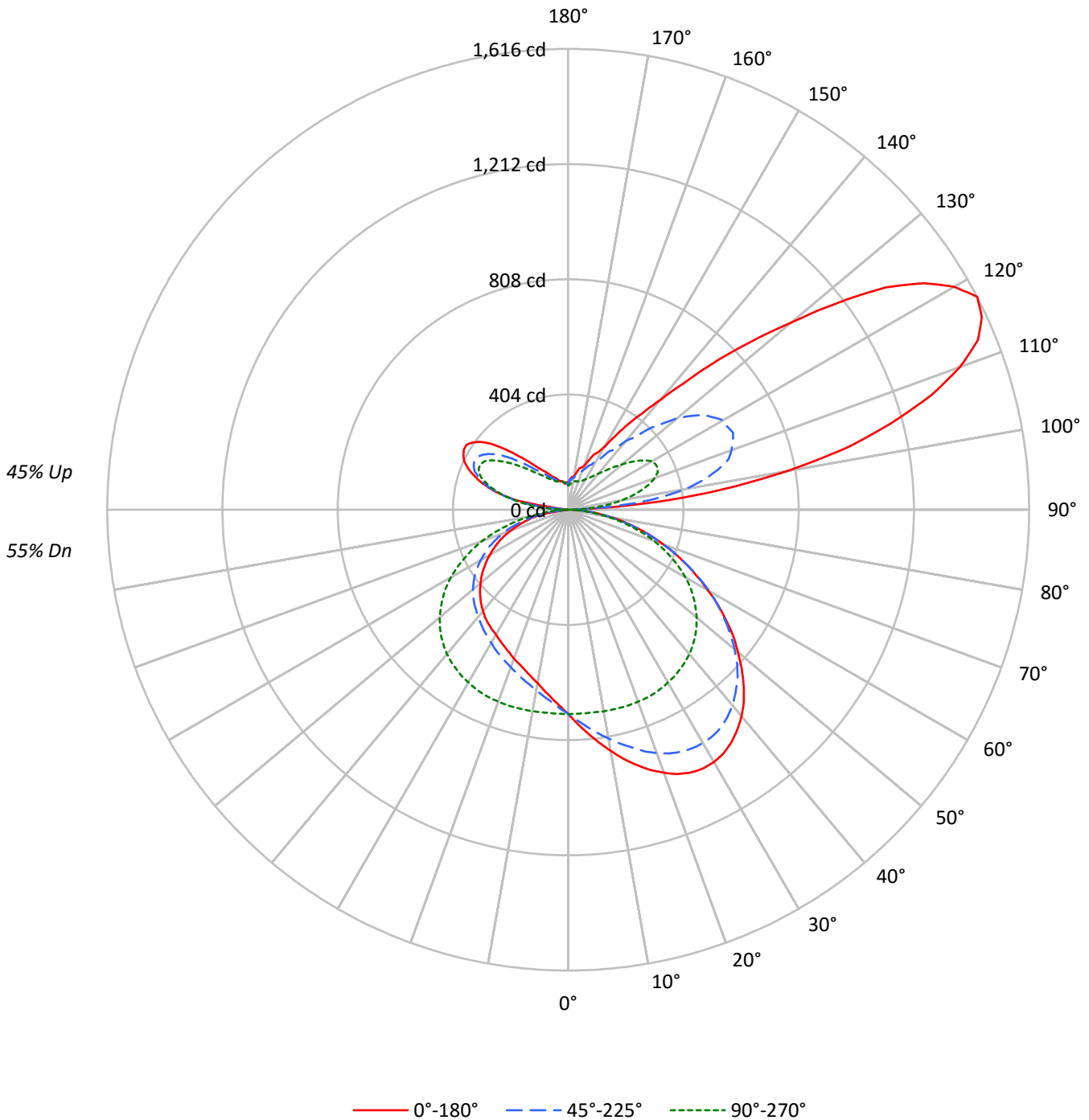
Input Watts (W): 41.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	5472	5472	5472
5°	6032	5493	5084
10°	6658	5570	4793
15°	7329	5679	4609
20°	7982	5823	4520
25°	8572	5996	4462
30°	9015	6171	4463
35°	9297	6369	4547
40°	9425	6594	4629
45°	9400	6801	4708
50°	9229	6986	4762
55°	9008	7139	4826
60°	8650	7245	4848
65°	8301	7243	4890
70°	7907	7161	4773
75°	7441	6754	4584
80°	6832	6023	4188
85°	6004	4979	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.1	1.4
10°-20°	209.4	4.3
20°-30°	344.6	7.0
30°-40°	450.0	9.2
40°-50°	498.7	10.2
50°-60°	474.0	9.7
60°-70°	379.1	7.7
70°-80°	228.3	4.7
80°-90°	56.8	1.2
90°-100°	144.5	2.9
100°-110°	482.0	9.8
110°-120°	586.1	12.0
120°-130°	469.2	9.6
130°-140°	265.7	5.4
140°-150°	130.0	2.7
150°-160°	67.0	1.4
160°-170°	32.9	0.7
170°-180°	9.6	0.2
0°-30°	623.2	12.7
0°-40°	1073.2	21.9
0°-60°	2045.9	41.8
0°-90°	2710.0	55.3
90°-120°	1212.6	24.8
90°-150°	2077.5	42.4
90°-180°	2187.0	44.7
0°-180°	4897.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	716	716	716	716	716	
5°	786	765	716	676	663	77
15°	927	863	718	614	583	264
25°	1017	937	711	564	529	469
35°	997	933	683	516	488	622
45°	870	840	630	466	436	670
55°	676	670	536	399	362	604
65°	459	462	401	304	270	455
75°	252	249	229	177	155	267
85°	68	65	57	5	0	73
90°	17	12	0	0	0	16
95°	311	202	100	10	0	345
105°	1172	544	267	276	280	1220
115°	1600	638	346	366	402	1558
125°	1359	579	299	341	411	1198
135°	740	402	202	234	289	583
145°	366	250	140	154	177	235
155°	214	170	112	117	127	98
165°	150	127	104	100	102	42
175°	112	104	92	94	95	11
180°	85	85	85	85	85	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3	716.3
2.5°	751.4	751.4	749.7	748.1	744.7	739.7	734.7	729.7	724.7	719.7	716.3
5°	786.5	786.5	783.1	779.8	773.1	764.8	754.7	746.4	733.0	723.0	716.3
7.5°	823.2	823.2	818.2	811.5	803.2	789.8	776.5	761.4	741.4	726.4	716.3
10°	858.3	858.3	853.3	846.6	833.2	814.9	796.5	774.8	751.4	729.7	718.0
12.5°	895.0	895.0	886.7	878.3	861.6	839.9	816.5	788.1	761.4	731.4	718.0
15°	926.7	926.7	920.1	910.0	890.0	863.3	834.9	799.8	768.1	734.7	718.0
17.5°	956.8	956.8	950.1	936.8	916.7	888.3	853.3	811.5	774.8	736.4	718.0
20°	981.8	981.8	975.2	961.8	940.1	908.4	868.3	824.9	779.8	738.0	716.3
22.5°	1003.5	1001.9	995.2	980.2	958.5	925.1	883.3	831.6	784.8	738.0	714.7
25°	1016.9	1015.2	1008.6	995.2	970.1	936.8	891.7	836.6	786.5	738.0	711.3
27.5°	1023.6	1021.9	1016.9	1001.9	978.5	943.4	898.3	841.6	786.5	736.4	706.3
30°	1021.9	1021.9	1015.2	1003.5	980.2	945.1	900.0	841.6	784.8	731.4	699.6
32.5°	1013.6	1011.9	1006.9	996.9	975.2	941.8	898.3	838.2	781.5	724.7	693.0
35°	996.9	996.9	993.5	983.5	965.1	933.4	888.3	829.9	773.1	714.7	682.9
37.5°	973.5	973.5	971.8	963.5	946.8	916.7	875.0	819.9	761.4	704.7	672.9
40°	945.1	946.8	943.4	936.8	923.4	896.7	858.3	804.8	748.1	691.3	661.2
42.5°	911.7	911.7	908.4	905.0	893.3	868.3	834.9	784.8	731.4	674.6	646.2
45°	870.0	870.0	868.3	866.6	856.6	839.9	808.2	761.4	711.3	656.2	629.5
47.5°	824.9	826.5	824.9	824.9	818.2	803.2	774.8	731.4	688.0	636.2	609.5
50°	776.5	779.8	778.1	779.8	773.1	761.4	738.0	701.3	661.2	612.8	587.8
52.5°	729.7	728.0	726.4	729.7	726.4	716.3	696.3	667.9	629.5	586.1	562.7
55°	676.3	674.6	676.3	679.6	676.3	669.6	654.6	627.8	596.1	557.7	536.0
57.5°	622.8	621.2	622.8	626.2	624.5	621.2	607.8	586.1	561.0	526.0	507.6
60°	566.1	567.7	569.4	571.1	574.4	571.1	557.7	542.7	522.6	492.6	474.2
62.5°	512.6	512.6	516.0	517.6	519.3	516.0	509.3	495.9	482.6	455.9	439.2
65°	459.2	459.2	460.9	462.5	465.9	462.5	457.5	449.2	437.5	415.8	400.7
67.5°	407.4	405.8	407.4	410.8	409.1	409.1	402.4	400.7	390.7	374.0	362.3
70°	354.0	352.3	354.0	354.0	355.7	354.0	352.3	350.7	342.3	334.0	320.6
72.5°	303.9	300.6	302.2	303.9	302.2	302.2	298.9	298.9	293.9	287.2	275.5
75°	252.1	250.5	250.5	250.5	250.5	248.8	243.8	247.1	245.5	240.4	228.8
77.5°	202.0	202.0	203.7	200.4	202.0	197.0	198.7	195.4	197.0	192.0	183.7
80°	155.3	153.6	153.6	153.6	153.6	150.3	148.6	146.9	150.3	145.3	136.9
82.5°	106.9	108.5	106.9	105.2	106.9	106.9	105.2	101.9	103.5	98.5	93.5
85°	68.5	68.5	68.5	65.1	65.1	65.1	66.8	65.1	63.5	60.1	56.8
87.5°	31.7	33.4	33.4	33.4	33.4	31.7	31.7	30.1	28.4	26.7	25.0
90°	16.7	16.7	15.0	15.0	13.4	11.7	10.0	6.7	5.0	1.7	0.0
92.5°	50.1	40.1	51.8	55.1	55.1	55.1	48.4	45.1	46.8	46.8	48.4
95°	310.6	297.2	307.2	293.9	258.8	202.0	135.3	108.5	103.5	98.5	100.2
97.5°	546.0	532.7	537.7	507.6	437.5	322.3	212.1	165.3	157.0	146.9	146.9
100°	776.5	766.4	754.7	711.3	596.1	417.4	275.5	217.1	207.1	193.7	190.4
102.5°	996.9	980.2	955.1	878.3	726.4	487.6	327.3	262.2	253.8	235.4	230.4
105°	1172.2	1157.2	1130.4	1011.9	816.5	544.4	367.4	303.9	295.6	272.2	267.2
107.5°	1334.2	1325.8	1259.0	1128.8	878.3	589.4	407.4	344.0	328.9	305.6	297.2
110°	1461.1	1447.7	1380.9	1207.3	921.7	609.5	445.8	380.7	352.3	332.3	322.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1554.6	1544.6	1444.4	1244.0	923.4	624.5	467.5	404.1	367.4	350.7	339.0
115°	1599.7	1584.6	1484.4	1249.0	916.7	637.9	482.6	414.1	379.0	362.3	345.6
117.5°	1616.4	1599.7	1462.7	1213.9	883.3	629.5	499.3	422.5	384.1	364.0	345.6
120°	1562.9	1547.9	1412.6	1153.8	853.3	627.8	495.9	430.8	385.7	359.0	339.0
122.5°	1477.8	1459.4	1327.5	1080.4	796.5	602.8	482.6	417.4	377.4	344.0	322.3
125°	1359.2	1342.5	1193.9	973.5	751.4	579.4	472.5	394.1	354.0	320.6	298.9
127.5°	1192.2	1182.2	1062.0	880.0	677.9	539.3	435.8	374.0	322.3	295.6	273.8
130°	1021.9	1015.2	933.4	779.8	619.5	499.3	409.1	349.0	290.5	267.2	247.1
132.5°	875.0	870.0	789.8	667.9	547.7	444.2	367.4	307.2	267.2	238.8	223.8
135°	739.7	738.0	664.6	579.4	477.6	402.4	325.6	277.2	245.5	213.7	202.0
137.5°	604.5	604.5	566.1	497.6	424.1	344.0	297.2	257.1	222.1	192.0	180.3
140°	502.6	495.9	475.9	410.8	355.7	313.9	255.5	223.8	195.4	173.7	165.3
142.5°	425.8	419.1	385.7	354.0	312.3	265.5	242.1	200.4	173.7	157.0	152.0
145°	365.7	364.0	328.9	317.3	280.5	250.5	207.1	192.0	162.0	143.6	140.3
147.5°	303.9	303.9	295.6	265.5	237.1	213.7	198.7	168.6	155.3	133.6	130.2
150°	255.5	255.5	257.1	235.4	223.8	205.4	177.0	155.3	146.9	126.9	123.6
152.5°	227.1	228.8	217.1	222.1	197.0	178.7	163.6	153.6	133.6	120.2	116.9
155°	213.7	215.4	198.7	190.4	177.0	170.3	158.6	138.6	123.6	116.9	111.9
157.5°	185.3	188.7	190.4	170.3	173.7	155.3	138.6	126.9	118.6	115.2	106.9
160°	162.0	163.6	165.3	168.6	148.6	145.3	141.9	130.2	120.2	113.5	105.2
162.5°	155.3	153.6	148.6	148.6	145.3	138.6	123.6	121.9	118.6	111.9	103.5
165°	150.3	152.0	146.9	131.9	135.3	126.9	125.2	110.2	110.2	108.5	103.5
167.5°	131.9	133.6	135.3	133.6	120.2	123.6	115.2	113.5	103.5	106.9	101.9
170°	116.9	118.6	116.9	120.2	123.6	113.5	110.2	111.9	101.9	105.2	100.2
172.5°	116.9	115.2	113.5	108.5	106.9	113.5	110.2	101.9	103.5	101.9	96.8
175°	111.9	113.5	113.5	111.9	108.5	103.5	100.2	101.9	103.5	96.8	91.8
177.5°	101.9	103.5	101.9	103.5	103.5	105.2	105.2	103.5	96.8	90.2	86.8
180°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	716.3	716.3	716.3	716.3
2.5°	706.3	696.3	689.6	688.0
5°	694.6	676.3	666.2	662.9
7.5°	684.6	659.6	644.5	639.5
10°	674.6	642.9	624.5	617.8
12.5°	662.9	627.8	606.1	599.5
15°	654.6	614.5	591.1	582.8
17.5°	644.5	601.1	576.1	567.7
20°	634.5	587.8	562.7	556.0
22.5°	626.2	576.1	551.0	541.0
25°	616.2	564.4	537.7	529.3
27.5°	606.1	552.7	526.0	517.6
30°	596.1	539.3	514.3	505.9
32.5°	584.4	527.7	504.3	497.6
35°	574.4	516.0	494.3	487.6
37.5°	562.7	502.6	482.6	477.6
40°	549.4	490.9	470.9	464.2
42.5°	536.0	477.6	459.2	450.8
45°	521.0	465.9	445.8	435.8
47.5°	505.9	450.8	429.1	419.1
50°	487.6	435.8	410.8	400.7
52.5°	467.5	417.4	392.4	382.4
55°	447.5	399.1	372.4	362.3
57.5°	425.8	377.4	350.7	340.6
60°	400.7	354.0	328.9	317.3
62.5°	374.0	328.9	303.9	293.9
65°	347.3	303.9	278.9	270.5
67.5°	318.9	273.8	250.5	243.8
70°	283.9	243.8	220.4	213.7
72.5°	247.1	213.7	188.7	185.3
75°	210.4	177.0	158.6	155.3
77.5°	172.0	140.3	128.6	126.9
80°	131.9	105.2	96.8	95.2
82.5°	90.2	70.1	8.3	0.0
85°	50.1	5.0	1.7	0.0
87.5°	5.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	11.7	1.7	0.0	0.0
95°	88.5	10.0	1.7	0.0
97.5°	148.6	130.2	48.4	0.0
100°	197.0	187.0	182.0	175.3
102.5°	233.8	233.8	237.1	235.4
105°	263.8	275.5	278.9	280.5
107.5°	292.2	310.6	317.3	320.6
110°	315.6	334.0	350.7	352.3



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	327.3	355.7	374.0	380.7
115°	332.3	365.7	394.1	402.4
117.5°	332.3	370.7	405.8	414.1
120°	328.9	369.0	409.1	422.5
122.5°	315.6	357.3	407.4	422.5
125°	293.9	340.6	392.4	410.8
127.5°	272.2	318.9	369.0	390.7
130°	250.5	292.2	344.0	362.3
132.5°	223.8	263.8	308.9	325.6
135°	200.4	233.8	273.8	288.9
137.5°	183.7	210.4	242.1	253.8
140°	167.0	187.0	215.4	223.8
142.5°	148.6	172.0	188.7	197.0
145°	138.6	153.6	172.0	177.0
147.5°	131.9	145.3	158.6	162.0
150°	121.9	131.9	143.6	150.3
152.5°	115.2	128.6	135.3	136.9
155°	113.5	116.9	128.6	126.9
157.5°	110.2	115.2	116.9	121.9
160°	101.9	106.9	111.9	115.2
162.5°	100.2	106.9	110.2	106.9
165°	101.9	100.2	101.9	101.9
167.5°	96.8	100.2	96.8	103.5
170°	93.5	93.5	98.5	96.8
172.5°	96.8	96.8	91.8	91.8
175°	96.8	93.5	91.8	95.2
177.5°	83.5	91.8	95.2	96.8
180°	85.2	85.2	85.2	85.2

(END OF REPORT)