

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: P286907

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286907
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-40L840-1D-UNV-STD-W-WM-4
Description: DIVIDE 4' WALL MOUNTED DIRECT/INDIRECT LED LUMINAIRE
WAVESTREAM DIFFUSE OPTIC, ASYMMETRIC
Light Source: (154) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4059.3 lumens
Efficiency: N/A
Efficacy: 127.7 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

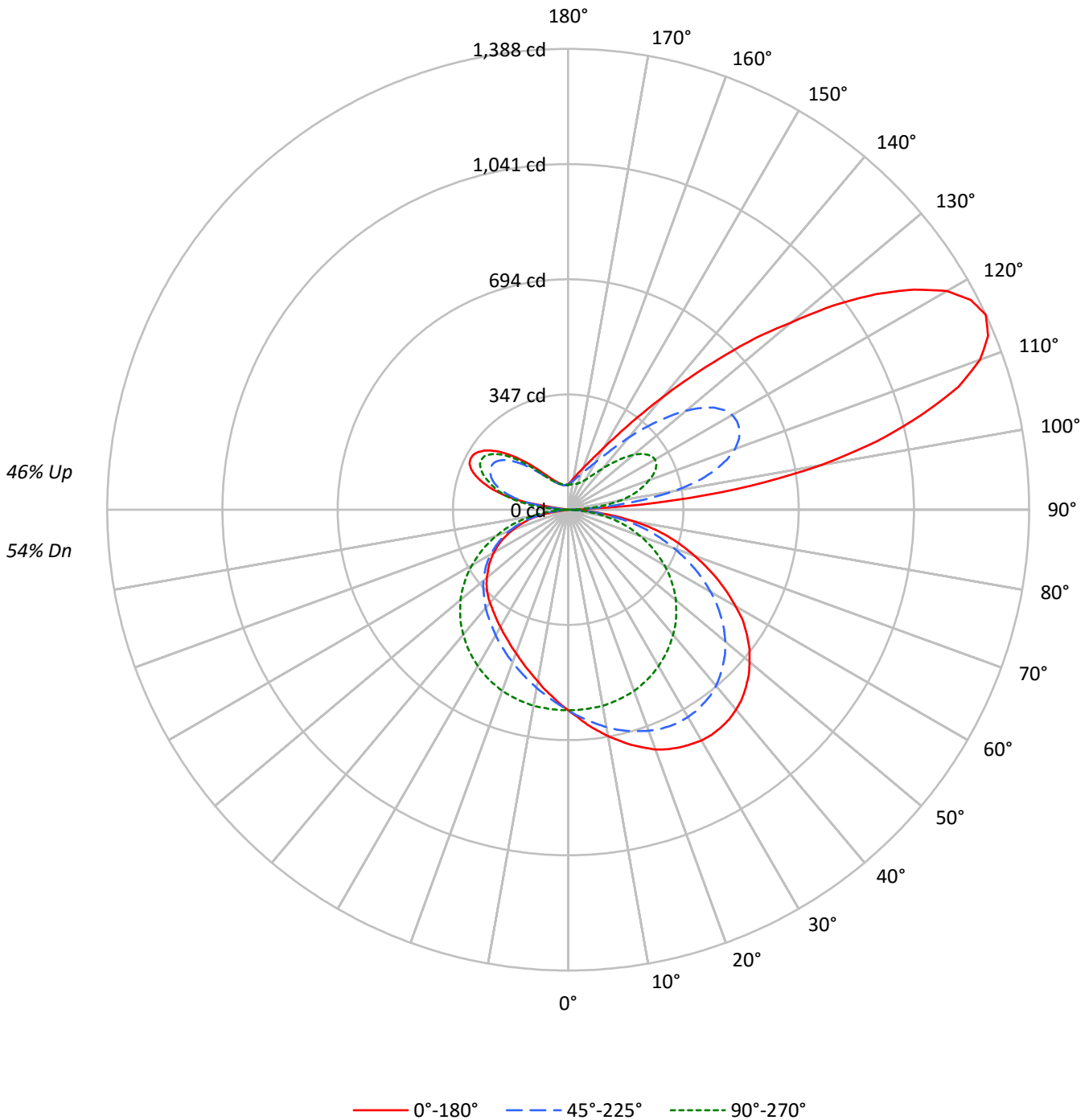
Input Watts (W): 31.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4614	4614	4614
5°	4976	4621	4319
10°	5371	4654	4073
15°	5799	4680	3884
20°	6249	4722	3738
25°	6662	4758	3647
30°	7080	4800	3600
35°	7472	4846	3603
40°	7841	4898	3649
45°	8171	4968	3733
50°	8472	5029	3800
55°	8751	5073	3877
60°	8896	5112	3950
65°	8975	5139	4008
70°	9024	5135	3949
75°	9195	5139	3855
80°	8799	4905	2692
85°	6320	3813	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.8	1.4
10°-20°	170.5	4.2
20°-30°	272.2	6.7
30°-40°	350.2	8.6
40°-50°	391.8	9.7
50°-60°	384.0	9.5
60°-70°	320.0	7.9
70°-80°	207.5	5.1
80°-90°	51.4	1.3
90°-100°	120.9	3.0
100°-110°	408.6	10.1
110°-120°	490.8	12.1
120°-130°	401.7	9.9
130°-140°	235.7	5.8
140°-150°	110.3	2.7
150°-160°	53.0	1.3
160°-170°	25.5	0.6
170°-180°	7.6	0.2
0°-30°	500.5	12.3
0°-40°	850.7	21.0
0°-60°	1626.4	40.1
0°-90°	2205.3	54.3
90°-120°	1020.3	25.1
90°-150°	1768.0	43.6
90°-180°	1854.0	45.7
0°-180°	4059.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	604	604	604	604	604	
5°	649	635	603	574	563	63
15°	733	690	592	517	491	209
25°	790	720	564	462	433	365
35°	801	711	520	411	386	502
45°	756	660	460	359	346	583
55°	657	562	381	303	291	586
65°	496	420	284	231	222	490
75°	312	256	174	140	131	325
85°	72	61	44	3	0	86
90°	12	8	0	0	0	15
95°	316	126	75	4	0	351
105°	1100	457	218	196	234	1143
115°	1388	570	291	258	328	1350
125°	1132	536	290	257	310	1008
135°	642	371	210	193	223	508
145°	302	212	126	124	137	199
155°	166	135	91	91	97	79
165°	113	101	80	79	79	33
175°	84	80	76	74	74	8
180°	75	75	75	75	75	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	624.4	625.7	625.7	624.4	623.0	620.3	617.6	613.5	610.8	606.7	604.0
5°	648.9	648.9	648.9	644.8	640.7	635.3	628.5	621.7	614.9	608.1	602.6
7.5°	670.6	672.0	669.3	665.2	658.4	650.2	640.7	629.8	618.9	606.7	601.2
10°	692.4	693.7	689.7	685.6	676.1	665.2	651.6	635.3	620.3	605.3	599.9
12.5°	712.8	714.2	710.1	704.6	693.7	678.8	661.1	640.7	621.7	605.3	595.8
15°	733.2	733.2	729.1	722.3	707.4	689.7	669.3	644.8	621.7	601.2	591.7
17.5°	750.9	749.5	745.4	735.9	719.6	699.2	674.7	646.1	620.3	597.2	586.3
20°	768.6	767.2	761.8	750.9	733.2	708.7	681.5	648.9	618.9	593.1	580.8
22.5°	780.8	779.4	774.0	761.8	742.7	715.5	684.2	647.5	614.9	587.6	572.7
25°	790.3	790.3	783.5	771.3	749.5	719.6	685.6	646.1	610.8	579.5	564.5
27.5°	797.1	797.1	790.3	776.7	753.6	722.3	684.2	643.4	604.0	571.3	555.0
30°	802.6	801.2	794.4	778.1	755.0	721.0	681.5	638.0	597.2	561.8	544.1
32.5°	803.9	802.6	794.4	778.1	752.2	718.2	677.4	631.2	587.6	550.9	531.9
35°	801.2	799.9	791.7	774.0	746.8	711.4	669.3	621.7	576.8	538.7	519.6
37.5°	795.8	795.8	786.2	768.6	741.4	704.6	661.1	612.1	565.9	525.1	506.0
40°	786.2	786.2	776.7	757.7	730.5	692.4	648.9	599.9	552.3	510.1	491.1
42.5°	774.0	772.6	761.8	742.7	714.2	677.4	633.9	583.6	537.3	493.8	476.1
45°	756.3	755.0	745.4	726.4	696.5	659.7	616.2	567.2	521.0	477.5	459.8
47.5°	737.3	735.9	725.0	706.0	677.4	640.7	597.2	549.6	503.3	461.1	440.7
50°	712.8	712.8	701.9	682.9	654.3	617.6	574.0	527.8	482.9	440.7	423.1
52.5°	688.3	685.6	674.7	654.3	627.1	591.7	549.6	504.7	461.1	420.3	402.6
55°	657.0	652.9	643.4	624.4	597.2	561.8	522.4	478.8	438.0	398.6	380.9
57.5°	624.4	620.3	608.1	589.0	563.2	530.5	492.4	451.6	413.5	375.4	359.1
60°	582.2	582.2	570.0	550.9	526.4	495.1	461.1	423.1	386.3	351.0	334.6
62.5°	540.0	541.4	529.2	510.1	487.0	458.4	427.1	391.8	357.8	326.5	310.1
65°	496.5	496.5	484.3	466.6	446.2	420.3	390.4	359.1	327.8	299.3	284.3
67.5°	450.3	450.3	440.7	421.7	402.6	379.5	353.7	326.5	297.9	270.7	257.1
70°	404.0	402.6	394.5	376.8	359.1	338.7	315.6	292.5	266.6	242.1	229.9
72.5°	357.8	356.4	349.6	331.9	316.9	297.9	278.9	257.1	235.3	213.6	202.7
75°	311.5	308.8	302.0	285.7	272.1	255.7	236.7	221.7	202.7	183.6	174.1
77.5°	259.8	258.5	251.7	235.3	224.4	210.8	195.9	182.3	168.7	151.0	144.2
80°	200.0	197.2	193.2	179.6	172.8	161.9	151.0	141.5	130.6	118.3	111.5
82.5°	133.3	131.9	130.6	123.8	117.0	111.5	104.7	97.9	91.1	81.6	78.9
85°	72.1	73.5	72.1	68.0	63.9	61.2	59.9	55.8	53.1	46.2	43.5
87.5°	21.8	23.1	23.1	23.1	23.1	23.1	23.1	20.4	19.0	16.3	13.6
90°	12.2	12.2	12.2	10.9	10.9	8.2	6.8	4.1	2.7	0.0	0.0
92.5°	63.9	66.7	69.4	62.6	49.0	36.7	32.6	34.0	31.3	29.9	25.8
95°	315.6	314.2	303.3	262.5	191.8	126.5	102.0	97.9	88.4	83.0	74.8
97.5°	557.7	553.6	527.8	451.6	351.0	227.2	171.4	155.1	140.1	130.6	119.7
100°	772.6	767.2	727.8	629.8	487.0	325.1	238.1	206.8	186.4	170.0	159.2
102.5°	952.2	946.8	895.1	769.9	590.4	399.9	293.8	251.7	224.4	204.0	191.8
105°	1100.5	1096.4	1031.1	880.1	669.3	457.1	337.4	287.0	255.7	229.9	217.6
107.5°	1232.4	1216.1	1131.8	964.4	725.0	500.6	372.7	318.3	282.9	254.4	239.4
110°	1319.5	1303.2	1207.9	1018.9	760.4	534.6	405.4	345.5	307.4	274.8	258.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1368.5	1357.6	1251.5	1047.4	779.4	556.4	429.9	368.6	327.8	293.8	277.5
115°	1387.5	1372.5	1259.6	1046.1	780.8	570.0	448.9	387.7	345.5	306.1	291.1
117.5°	1367.1	1350.8	1235.1	1020.2	768.6	574.0	461.1	398.6	353.7	315.6	299.3
120°	1316.8	1297.7	1182.1	976.7	745.4	570.0	466.6	404.0	359.1	319.7	302.0
122.5°	1233.8	1216.1	1104.6	914.1	710.1	557.7	461.1	401.3	356.4	315.6	299.3
125°	1131.8	1112.7	1012.1	843.4	666.5	536.0	448.9	390.4	345.5	307.4	289.7
127.5°	1013.4	993.0	911.4	763.1	614.9	503.3	427.1	371.4	327.8	292.5	276.1
130°	877.4	870.6	801.2	678.8	561.8	463.9	395.8	344.2	304.7	272.1	257.1
132.5°	764.5	744.1	689.7	593.1	499.2	419.0	359.1	312.9	276.1	247.6	234.0
135°	642.1	627.1	584.9	510.1	438.0	371.4	319.7	278.9	246.2	220.4	209.5
137.5°	534.6	526.4	491.1	438.0	378.2	326.5	281.6	244.9	216.3	194.5	185.0
140°	440.7	435.3	410.8	368.6	323.7	282.9	244.9	213.6	189.1	170.0	161.9
142.5°	363.2	359.1	341.4	310.1	277.5	244.9	212.2	187.7	164.6	149.6	142.8
145°	302.0	299.3	285.7	263.9	236.7	212.2	186.4	164.6	145.6	131.9	126.5
147.5°	253.0	251.7	242.1	227.2	206.8	185.0	164.6	145.6	129.2	118.3	112.9
150°	216.3	214.9	209.5	195.9	180.9	164.6	146.9	131.9	117.0	107.5	103.4
152.5°	187.7	186.4	182.3	172.8	161.9	148.3	133.3	121.1	108.8	99.3	96.6
155°	166.0	164.6	161.9	155.1	145.6	134.7	122.4	111.5	100.7	93.9	91.1
157.5°	148.3	148.3	145.6	140.1	131.9	123.8	114.3	104.7	95.2	89.8	87.1
160°	134.7	134.7	131.9	126.5	122.4	114.3	106.1	97.9	91.1	87.1	84.3
162.5°	122.4	122.4	119.7	117.0	112.9	106.1	100.7	93.9	88.4	84.3	81.6
165°	112.9	112.9	111.5	108.8	104.7	100.7	95.2	89.8	84.3	81.6	80.3
167.5°	103.4	104.7	103.4	100.7	97.9	93.9	89.8	85.7	83.0	80.3	78.9
170°	96.6	96.6	95.2	93.9	92.5	88.4	87.1	84.3	80.3	78.9	77.5
172.5°	89.8	89.8	88.4	88.4	87.1	85.7	83.0	81.6	78.9	77.5	77.5
175°	84.3	84.3	83.0	83.0	83.0	80.3	80.3	78.9	77.5	77.5	76.2
177.5°	80.3	80.3	80.3	78.9	78.9	78.9	78.9	77.5	76.2	76.2	74.8
180°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	604.0	604.0	604.0	604.0
2.5°	597.2	589.0	584.9	584.9
5°	587.6	574.0	565.9	563.2
7.5°	579.5	559.1	548.2	545.5
10°	568.6	545.5	530.5	525.1
12.5°	557.7	530.5	514.2	507.4
15°	545.5	516.9	497.9	491.1
17.5°	534.6	503.3	482.9	474.7
20°	522.4	489.7	467.9	459.8
22.5°	511.5	476.1	454.3	446.2
25°	499.2	462.5	440.7	432.6
27.5°	487.0	450.3	427.1	420.3
30°	473.4	436.7	414.9	408.1
32.5°	462.5	423.1	404.0	397.2
35°	448.9	410.8	391.8	386.3
37.5°	435.3	398.6	380.9	375.4
40°	420.3	386.3	370.0	365.9
42.5°	406.7	372.7	359.1	356.4
45°	391.8	359.1	348.2	345.5
47.5°	376.8	346.9	336.0	333.3
50°	360.5	333.3	322.4	319.7
52.5°	342.8	318.3	307.4	304.7
55°	326.5	303.3	292.5	291.1
57.5°	307.4	287.0	276.1	274.8
60°	288.4	269.3	259.8	258.5
62.5°	268.0	250.3	240.8	240.8
65°	247.6	231.2	221.7	221.7
67.5°	225.8	210.8	202.7	200.0
70°	204.0	189.1	178.2	176.8
72.5°	182.3	166.0	153.7	153.7
75°	156.4	140.1	130.6	130.6
77.5°	131.9	112.9	104.7	104.7
80°	103.4	83.0	72.1	61.2
82.5°	69.4	49.0	2.7	0.0
85°	35.4	2.7	0.0	0.0
87.5°	4.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	4.1	0.0	0.0	0.0
95°	51.7	4.1	1.4	0.0
97.5°	100.7	77.5	8.2	0.0
100°	141.5	126.5	129.2	129.2
102.5°	170.0	166.0	182.3	191.8
105°	191.8	195.9	220.4	234.0
107.5°	209.5	220.4	251.7	268.0
110°	225.8	238.1	276.1	295.2



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	239.4	250.3	293.8	315.6
115°	250.3	258.5	303.3	327.8
117.5°	257.1	263.9	307.4	331.9
120°	259.8	266.6	306.1	330.6
122.5°	257.1	263.9	299.3	322.4
125°	250.3	257.1	288.4	310.1
127.5°	239.4	246.2	274.8	292.5
130°	223.1	229.9	255.7	272.1
132.5°	205.4	212.2	235.3	247.6
135°	185.0	193.2	212.2	223.1
137.5°	164.6	172.8	189.1	198.6
140°	146.9	153.7	167.3	175.5
142.5°	130.6	137.4	148.3	155.1
145°	117.0	123.8	131.9	137.4
147.5°	106.1	112.9	119.7	123.8
150°	97.9	103.4	110.2	111.5
152.5°	92.5	96.6	100.7	103.4
155°	87.1	91.1	95.2	96.6
157.5°	83.0	87.1	88.4	91.1
160°	80.3	83.0	85.7	85.7
162.5°	78.9	80.3	81.6	83.0
165°	77.5	78.9	78.9	78.9
167.5°	76.2	76.2	76.2	76.2
170°	76.2	74.8	74.8	74.8
172.5°	74.8	74.8	73.5	74.8
175°	74.8	73.5	73.5	73.5
177.5°	74.8	74.8	74.8	74.8
180°	74.8	74.8	74.8	74.8

(END OF REPORT)