

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: P286906

Luminaire Tested: **DWI-WD-30L840-1D-UNV-STD-W-WM-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286906
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-30L840-1D-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: 3054.9 lumens
Efficiency: N/A
Efficacy: 132.2 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

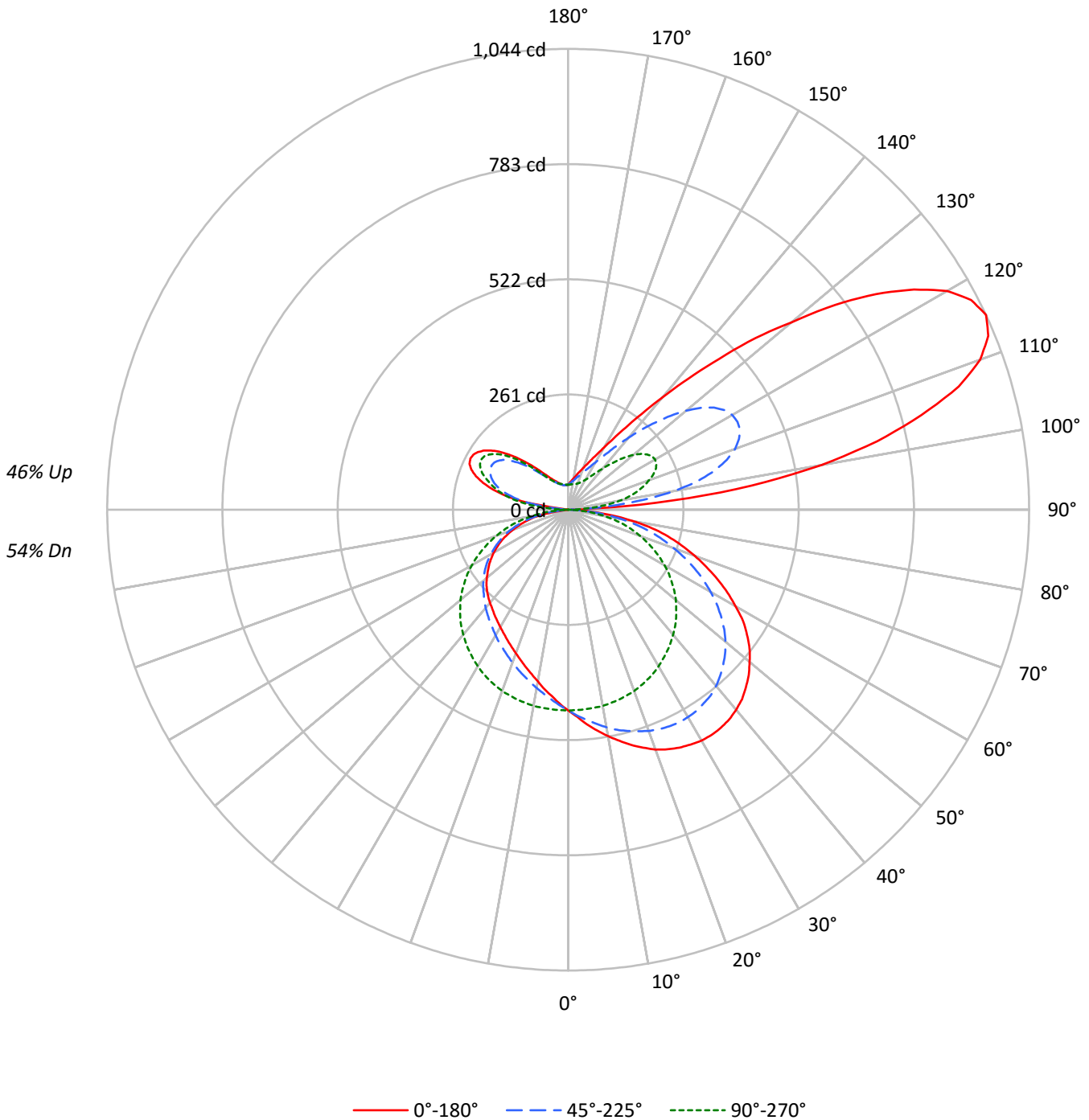
Input Watts (W): 23.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3472	3472	3472
5°	3745	3478	3250
10°	4042	3502	3065
15°	4364	3522	2923
20°	4702	3554	2813
25°	5014	3581	2744
30°	5328	3612	2709
35°	5624	3647	2711
40°	5901	3686	2747
45°	6150	3738	2809
50°	6375	3784	2860
55°	6585	3817	2918
60°	6694	3847	2972
65°	6754	3868	3017
70°	6790	3864	2973
75°	6919	3867	2902
80°	6621	3691	2028
85°	4760	2875	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.5	1.4
10°-20°	128.3	4.2
20°-30°	204.8	6.7
30°-40°	263.6	8.6
40°-50°	294.8	9.7
50°-60°	289.0	9.5
60°-70°	240.8	7.9
70°-80°	156.1	5.1
80°-90°	38.7	1.3
90°-100°	91.0	3.0
100°-110°	307.5	10.1
110°-120°	369.3	12.1
120°-130°	302.3	9.9
130°-140°	177.4	5.8
140°-150°	83.0	2.7
150°-160°	39.9	1.3
160°-170°	19.2	0.6
170°-180°	5.7	0.2
0°-30°	376.6	12.3
0°-40°	640.2	21.0
0°-60°	1224.0	40.1
0°-90°	1659.6	54.3
90°-120°	767.8	25.1
90°-150°	1330.5	43.6
90°-180°	1395.0	45.7
0°-180°	3054.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	454	454	454	454	454	
5°	488	478	454	432	424	48
15°	552	519	445	389	370	157
25°	595	542	425	348	326	275
35°	603	535	391	309	291	378
45°	569	496	346	270	260	439
55°	494	423	287	228	219	441
65°	374	316	214	174	167	369
75°	234	192	131	105	98	244
85°	54	46	33	2	0	65
90°	9	6	0	0	0	11
95°	238	95	56	3	0	264
105°	828	344	164	147	176	860
115°	1044	429	219	194	247	1016
125°	852	403	218	194	233	758
135°	483	280	158	145	168	382
145°	227	160	95	93	103	149
155°	125	101	69	69	73	60
165°	85	76	60	59	59	25
175°	64	60	57	55	55	6
180°	56	56	56	56	56	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5	454.5
2.5°	469.9	470.9	470.9	469.9	468.8	466.8	464.8	461.7	459.6	456.6	454.5
5°	488.3	488.3	488.3	485.2	482.2	478.1	472.9	467.8	462.7	457.6	453.5
7.5°	504.7	505.7	503.7	500.6	495.5	489.3	482.2	474.0	465.8	456.6	452.5
10°	521.1	522.1	519.0	515.9	508.8	500.6	490.3	478.1	466.8	455.5	451.4
12.5°	536.4	537.4	534.4	530.3	522.1	510.8	497.5	482.2	467.8	455.5	448.4
15°	551.8	551.8	548.7	543.6	532.3	519.0	503.7	485.2	467.8	452.5	445.3
17.5°	565.1	564.1	561.0	553.8	541.5	526.2	507.7	486.3	466.8	449.4	441.2
20°	578.4	577.4	573.3	565.1	551.8	533.3	512.9	488.3	465.8	446.3	437.1
22.5°	587.6	586.6	582.5	573.3	558.9	538.5	514.9	487.3	462.7	442.2	431.0
25°	594.8	594.8	589.6	580.4	564.1	541.5	515.9	486.3	459.6	436.1	424.8
27.5°	599.9	599.9	594.8	584.5	567.1	543.6	514.9	484.2	454.5	429.9	417.7
30°	604.0	603.0	597.8	585.5	568.1	542.6	512.9	480.1	449.4	422.8	409.5
32.5°	605.0	604.0	597.8	585.5	566.1	540.5	509.8	475.0	442.2	414.6	400.3
35°	603.0	601.9	595.8	582.5	562.0	535.4	503.7	467.8	434.0	405.4	391.0
37.5°	598.9	598.9	591.7	578.4	557.9	530.3	497.5	460.7	425.9	395.1	380.8
40°	591.7	591.7	584.5	570.2	549.7	521.1	488.3	451.4	415.6	383.9	369.6
42.5°	582.5	581.5	573.3	558.9	537.4	509.8	477.0	439.2	404.4	371.6	358.3
45°	569.2	568.1	561.0	546.6	524.1	496.5	463.7	426.9	392.1	359.3	346.0
47.5°	554.8	553.8	545.6	531.3	509.8	482.2	449.4	413.6	378.8	347.0	331.7
50°	536.4	536.4	528.2	513.9	492.4	464.8	432.0	397.2	363.4	331.7	318.4
52.5°	518.0	515.9	507.7	492.4	471.9	445.3	413.6	379.8	347.0	316.3	303.0
55°	494.4	491.4	484.2	469.9	449.4	422.8	393.1	360.3	329.6	299.9	286.6
57.5°	469.9	466.8	457.6	443.3	423.8	399.2	370.6	339.9	311.2	282.5	270.3
60°	438.1	438.1	428.9	414.6	396.2	372.6	347.0	318.4	290.7	264.1	251.8
62.5°	406.4	407.4	398.2	383.9	366.5	345.0	321.4	294.8	269.2	245.7	233.4
65°	373.6	373.6	364.4	351.1	335.8	316.3	293.8	270.3	246.7	225.2	214.0
67.5°	338.8	338.8	331.7	317.3	303.0	285.6	266.2	245.7	224.2	203.7	193.5
70°	304.0	303.0	296.9	283.6	270.3	254.9	237.5	220.1	200.6	182.2	173.0
72.5°	269.2	268.2	263.1	249.8	238.5	224.2	209.9	193.5	177.1	160.7	152.5
75°	234.4	232.4	227.3	215.0	204.7	192.5	178.1	166.9	152.5	138.2	131.0
77.5°	195.5	194.5	189.4	177.1	168.9	158.7	147.4	137.2	126.9	113.6	108.5
80°	150.5	148.4	145.4	135.1	130.0	121.8	113.6	106.5	98.3	89.1	83.9
82.5°	100.3	99.3	98.3	93.2	88.0	83.9	78.8	73.7	68.6	61.4	59.4
85°	54.3	55.3	54.3	51.2	48.1	46.1	45.0	42.0	39.9	34.8	32.8
87.5°	16.4	17.4	17.4	17.4	17.4	17.4	17.4	15.4	14.3	12.3	10.2
90°	9.2	9.2	9.2	8.2	8.2	6.1	5.1	3.1	2.0	0.0	0.0
92.5°	48.1	50.2	52.2	47.1	36.9	27.6	24.6	25.6	23.5	22.5	19.5
95°	237.5	236.5	228.3	197.6	144.3	95.2	76.8	73.7	66.5	62.4	56.3
97.5°	419.7	416.6	397.2	339.9	264.1	171.0	129.0	116.7	105.4	98.3	90.1
100°	581.5	577.4	547.7	474.0	366.5	244.7	179.1	155.6	140.2	128.0	119.8
102.5°	716.6	712.5	673.6	579.4	444.3	301.0	221.1	189.4	168.9	153.6	144.3
105°	828.2	825.1	776.0	662.3	503.7	344.0	253.9	216.0	192.5	173.0	163.8
107.5°	927.5	915.2	851.7	725.8	545.6	376.7	280.5	239.5	212.9	191.4	180.2
110°	993.0	980.7	909.0	766.7	572.2	402.3	305.1	260.0	231.4	206.8	194.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	1029.8	1021.6	941.8	788.2	586.6	418.7	323.5	277.4	246.7	221.1	208.8
115°	1044.2	1032.9	947.9	787.2	587.6	428.9	337.8	291.8	260.0	230.3	219.1
117.5°	1028.8	1016.5	929.5	767.8	578.4	432.0	347.0	299.9	266.2	237.5	225.2
120°	990.9	976.6	889.6	735.0	561.0	428.9	351.1	304.0	270.3	240.6	227.3
122.5°	928.5	915.2	831.2	687.9	534.4	419.7	347.0	302.0	268.2	237.5	225.2
125°	851.7	837.4	761.6	634.7	501.6	403.3	337.8	293.8	260.0	231.4	218.0
127.5°	762.6	747.3	685.9	574.3	462.7	378.8	321.4	279.5	246.7	220.1	207.8
130°	660.3	655.2	603.0	510.8	422.8	349.1	297.9	259.0	229.3	204.7	193.5
132.5°	575.3	560.0	519.0	446.3	375.7	315.3	270.3	235.4	207.8	186.3	176.1
135°	483.2	471.9	440.2	383.9	329.6	279.5	240.6	209.9	185.3	165.8	157.6
137.5°	402.3	396.2	369.6	329.6	284.6	245.7	211.9	184.3	162.8	146.4	139.2
140°	331.7	327.6	309.2	277.4	243.6	212.9	184.3	160.7	142.3	128.0	121.8
142.5°	273.3	270.3	256.9	233.4	208.8	184.3	159.7	141.3	123.9	112.6	107.5
145°	227.3	225.2	215.0	198.6	178.1	159.7	140.2	123.9	109.5	99.3	95.2
147.5°	190.4	189.4	182.2	171.0	155.6	139.2	123.9	109.5	97.3	89.1	85.0
150°	162.8	161.7	157.6	147.4	136.2	123.9	110.6	99.3	88.0	80.9	77.8
152.5°	141.3	140.2	137.2	130.0	121.8	111.6	100.3	91.1	81.9	74.7	72.7
155°	124.9	123.9	121.8	116.7	109.5	101.3	92.1	83.9	75.8	70.6	68.6
157.5°	111.6	111.6	109.5	105.4	99.3	93.2	86.0	78.8	71.7	67.6	65.5
160°	101.3	101.3	99.3	95.2	92.1	86.0	79.8	73.7	68.6	65.5	63.5
162.5°	92.1	92.1	90.1	88.0	85.0	79.8	75.8	70.6	66.5	63.5	61.4
165°	85.0	85.0	83.9	81.9	78.8	75.8	71.7	67.6	63.5	61.4	60.4
167.5°	77.8	78.8	77.8	75.8	73.7	70.6	67.6	64.5	62.4	60.4	59.4
170°	72.7	72.7	71.7	70.6	69.6	66.5	65.5	63.5	60.4	59.4	58.4
172.5°	67.6	67.6	66.5	66.5	65.5	64.5	62.4	61.4	59.4	58.4	58.4
175°	63.5	63.5	62.4	62.4	62.4	60.4	60.4	59.4	58.4	58.4	57.3
177.5°	60.4	60.4	60.4	59.4	59.4	59.4	59.4	58.4	57.3	57.3	56.3
180°	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3	56.3



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	454.5	454.5	454.5	454.5
2.5°	449.4	443.3	440.2	440.2
5°	442.2	432.0	425.9	423.8
7.5°	436.1	420.7	412.5	410.5
10°	427.9	410.5	399.2	395.1
12.5°	419.7	399.2	387.0	381.8
15°	410.5	389.0	374.7	369.6
17.5°	402.3	378.8	363.4	357.3
20°	393.1	368.5	352.1	346.0
22.5°	384.9	358.3	341.9	335.8
25°	375.7	348.1	331.7	325.5
27.5°	366.5	338.8	321.4	316.3
30°	356.2	328.6	312.2	307.1
32.5°	348.1	318.4	304.0	298.9
35°	337.8	309.2	294.8	290.7
37.5°	327.6	299.9	286.6	282.5
40°	316.3	290.7	278.4	275.4
42.5°	306.1	280.5	270.3	268.2
45°	294.8	270.3	262.1	260.0
47.5°	283.6	261.0	252.9	250.8
50°	271.3	250.8	242.6	240.6
52.5°	258.0	239.5	231.4	229.3
55°	245.7	228.3	220.1	219.1
57.5°	231.4	216.0	207.8	206.8
60°	217.0	202.7	195.5	194.5
62.5°	201.7	188.4	181.2	181.2
65°	186.3	174.0	166.9	166.9
67.5°	169.9	158.7	152.5	150.5
70°	153.6	142.3	134.1	133.1
72.5°	137.2	124.9	115.7	115.7
75°	117.7	105.4	98.3	98.3
77.5°	99.3	85.0	78.8	78.8
80°	77.8	62.4	54.3	46.1
82.5°	52.2	36.9	2.0	0.0
85°	26.6	2.0	0.0	0.0
87.5°	3.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	3.1	0.0	0.0	0.0
95°	38.9	3.1	1.0	0.0
97.5°	75.8	58.4	6.1	0.0
100°	106.5	95.2	97.3	97.3
102.5°	128.0	124.9	137.2	144.3
105°	144.3	147.4	165.8	176.1
107.5°	157.6	165.8	189.4	201.7
110°	169.9	179.1	207.8	222.1



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	180.2	188.4	221.1	237.5
115°	188.4	194.5	228.3	246.7
117.5°	193.5	198.6	231.4	249.8
120°	195.5	200.6	230.3	248.8
122.5°	193.5	198.6	225.2	242.6
125°	188.4	193.5	217.0	233.4
127.5°	180.2	185.3	206.8	220.1
130°	167.9	173.0	192.5	204.7
132.5°	154.6	159.7	177.1	186.3
135°	139.2	145.4	159.7	167.9
137.5°	123.9	130.0	142.3	149.5
140°	110.6	115.7	125.9	132.1
142.5°	98.3	103.4	111.6	116.7
145°	88.0	93.2	99.3	103.4
147.5°	79.8	85.0	90.1	93.2
150°	73.7	77.8	82.9	83.9
152.5°	69.6	72.7	75.8	77.8
155°	65.5	68.6	71.7	72.7
157.5°	62.4	65.5	66.5	68.6
160°	60.4	62.4	64.5	64.5
162.5°	59.4	60.4	61.4	62.4
165°	58.4	59.4	59.4	59.4
167.5°	57.3	57.3	57.3	57.3
170°	57.3	56.3	56.3	56.3
172.5°	56.3	56.3	55.3	56.3
175°	56.3	55.3	55.3	55.3
177.5°	56.3	56.3	56.3	56.3
180°	56.3	56.3	56.3	56.3

(END OF REPORT)