

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: P286870

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286870
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-30L840-1D-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: 3002.3 lumens
Efficiency: N/A
Efficacy: 130.0 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

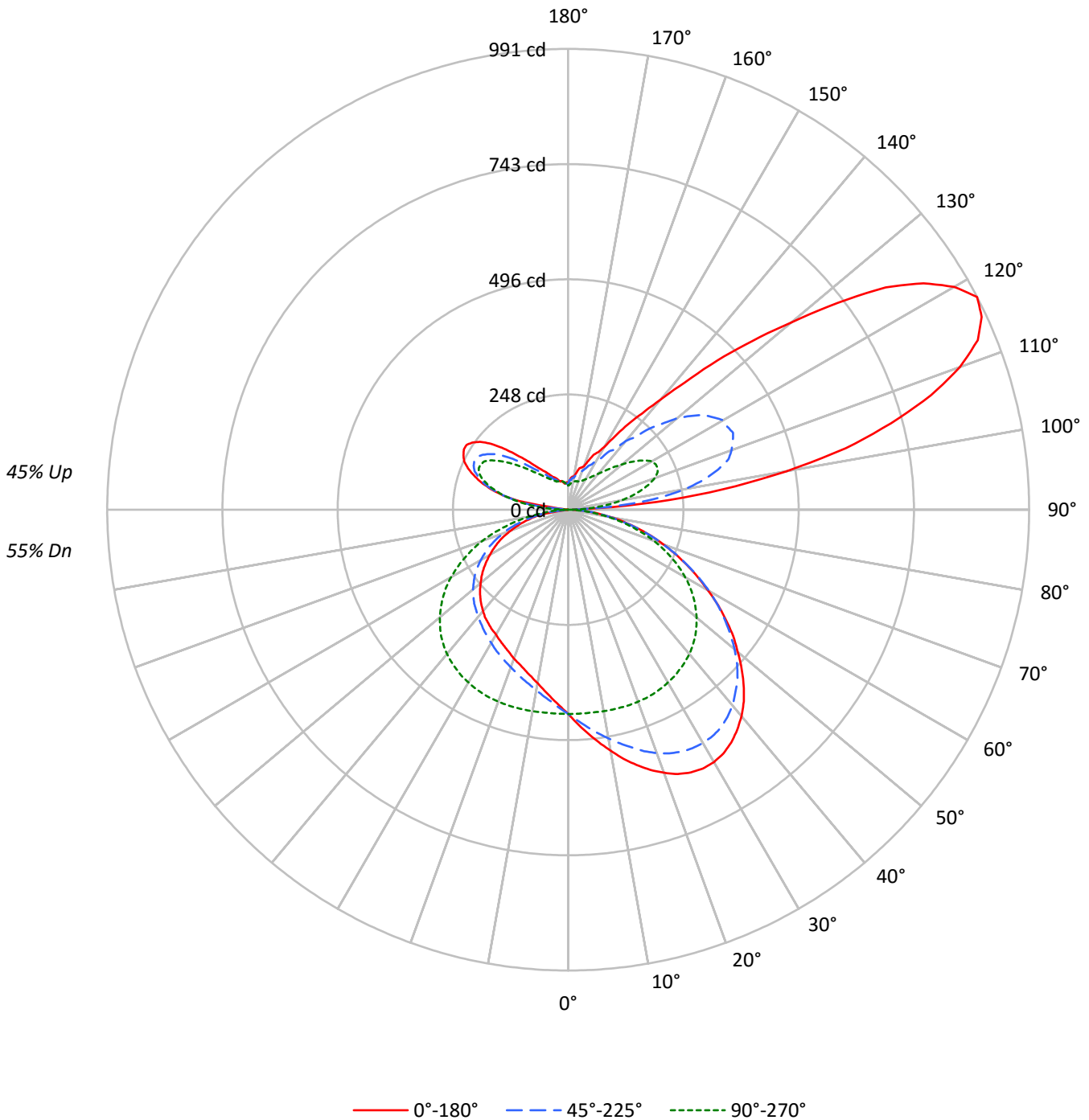
Input Watts (W): 23.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3355	3355	3355
5°	3698	3368	3117
10°	4082	3415	2939
15°	4494	3482	2826
20°	4894	3571	2771
25°	5256	3676	2735
30°	5527	3784	2736
35°	5700	3905	2788
40°	5778	4043	2838
45°	5763	4169	2887
50°	5657	4283	2920
55°	5522	4377	2960
60°	5302	4442	2972
65°	5089	4441	2997
70°	4847	4391	2926
75°	4563	4141	2810
80°	4188	3691	2569
85°	3681	3050	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.4	1.4
10°-20°	128.4	4.3
20°-30°	211.3	7.0
30°-40°	275.9	9.2
40°-50°	305.7	10.2
50°-60°	290.6	9.7
60°-70°	232.5	7.7
70°-80°	139.9	4.7
80°-90°	34.8	1.2
90°-100°	88.6	2.9
100°-110°	295.5	9.8
110°-120°	359.3	12.0
120°-130°	287.7	9.6
130°-140°	162.9	5.4
140°-150°	79.7	2.7
150°-160°	41.1	1.4
160°-170°	20.1	0.7
170°-180°	5.9	0.2
0°-30°	382.1	12.7
0°-40°	658.0	21.9
0°-60°	1254.3	41.8
0°-90°	1661.5	55.3
90°-120°	743.4	24.8
90°-150°	1273.7	42.4
90°-180°	1341.0	44.7
0°-180°	3002.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	439	439	439	439	439	
5°	482	469	439	415	406	47
15°	568	529	440	377	357	162
25°	624	574	436	346	324	287
35°	611	572	419	316	299	381
45°	533	515	386	286	267	410
55°	415	410	329	245	222	370
65°	282	284	246	186	166	279
75°	155	152	140	108	95	164
85°	42	40	35	3	0	45
90°	10	7	0	0	0	10
95°	190	124	61	6	0	212
105°	719	334	164	169	172	748
115°	981	391	212	224	247	955
125°	833	355	183	209	252	735
135°	454	247	124	143	177	357
145°	224	154	86	94	108	144
155°	131	104	69	72	78	60
165°	92	78	64	61	62	25
175°	69	64	56	57	58	7
180°	52	52	52	52	52	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2	439.2
2.5°	460.7	460.7	459.7	458.6	456.6	453.5	450.4	447.4	444.3	441.2	439.2
5°	482.2	482.2	480.1	478.1	474.0	468.9	462.7	457.6	449.4	443.3	439.2
7.5°	504.7	504.7	501.6	497.5	492.4	484.2	476.0	466.8	454.5	445.3	439.2
10°	526.2	526.2	523.1	519.0	510.8	499.6	488.3	475.0	460.7	447.4	440.2
12.5°	548.7	548.7	543.6	538.5	528.2	514.9	500.6	483.2	466.8	448.4	440.2
15°	568.2	568.2	564.1	557.9	545.7	529.3	511.9	490.4	470.9	450.4	440.2
17.5°	586.6	586.6	582.5	574.3	562.0	544.6	523.1	497.5	475.0	451.5	440.2
20°	602.0	602.0	597.9	589.7	576.4	556.9	532.3	505.7	478.1	452.5	439.2
22.5°	615.3	614.2	610.1	600.9	587.6	567.2	541.6	509.8	481.2	452.5	438.2
25°	623.5	622.4	618.3	610.1	594.8	574.3	546.7	512.9	482.2	452.5	436.1
27.5°	627.6	626.5	623.5	614.2	599.9	578.4	550.8	516.0	482.2	451.5	433.0
30°	626.5	626.5	622.4	615.3	600.9	579.4	551.8	516.0	481.2	448.4	428.9
32.5°	621.4	620.4	617.3	611.2	597.9	577.4	550.8	513.9	479.1	444.3	424.9
35°	611.2	611.2	609.1	603.0	591.7	572.3	544.6	508.8	474.0	438.2	418.7
37.5°	596.8	596.8	595.8	590.7	580.5	562.0	536.4	502.7	466.8	432.0	412.6
40°	579.4	580.5	578.4	574.3	566.1	549.7	526.2	493.4	458.6	423.8	405.4
42.5°	559.0	559.0	556.9	554.9	547.7	532.3	511.9	481.2	448.4	413.6	396.2
45°	533.4	533.4	532.3	531.3	525.2	514.9	495.5	466.8	436.1	402.3	385.9
47.5°	505.7	506.8	505.7	505.7	501.6	492.4	475.0	448.4	421.8	390.0	373.7
50°	476.0	478.1	477.1	478.1	474.0	466.8	452.5	430.0	405.4	375.7	360.4
52.5°	447.4	446.3	445.3	447.4	445.3	439.2	426.9	409.5	385.9	359.3	345.0
55°	414.6	413.6	414.6	416.7	414.6	410.5	401.3	384.9	365.5	341.9	328.6
57.5°	381.9	380.8	381.9	383.9	382.9	380.8	372.6	359.3	344.0	322.5	311.2
60°	347.0	348.1	349.1	350.1	352.2	350.1	341.9	332.7	320.4	302.0	290.7
62.5°	314.3	314.3	316.3	317.4	318.4	316.3	312.2	304.1	295.9	279.5	269.2
65°	281.5	281.5	282.6	283.6	285.6	283.6	280.5	275.4	268.2	254.9	245.7
67.5°	249.8	248.8	249.8	251.8	250.8	250.8	246.7	245.7	239.6	229.3	222.2
70°	217.0	216.0	217.0	217.0	218.1	217.0	216.0	215.0	209.9	204.7	196.6
72.5°	186.3	184.3	185.3	186.3	185.3	185.3	183.2	183.2	180.2	176.1	168.9
75°	154.6	153.6	153.6	153.6	153.6	152.5	149.5	151.5	150.5	147.4	140.3
77.5°	123.9	123.9	124.9	122.8	123.9	120.8	121.8	119.8	120.8	117.7	112.6
80°	95.2	94.2	94.2	94.2	94.2	92.1	91.1	90.1	92.1	89.1	83.9
82.5°	65.5	66.5	65.5	64.5	65.5	65.5	64.5	62.4	63.5	60.4	57.3
85°	42.0	42.0	42.0	39.9	39.9	39.9	40.9	39.9	38.9	36.9	34.8
87.5°	19.5	20.5	20.5	20.5	20.5	19.5	19.5	18.4	17.4	16.4	15.4
90°	10.2	10.2	9.2	9.2	8.2	7.2	6.1	4.1	3.1	1.0	0.0
92.5°	30.7	24.6	31.7	33.8	33.8	33.8	29.7	27.6	28.7	28.7	29.7
95°	190.4	182.2	188.4	180.2	158.7	123.9	82.9	66.5	63.5	60.4	61.4
97.5°	334.8	326.6	329.6	311.2	268.2	197.6	130.0	101.4	96.2	90.1	90.1
100°	476.0	469.9	462.7	436.1	365.5	255.9	168.9	133.1	126.9	118.8	116.7
102.5°	611.2	600.9	585.6	538.5	445.3	298.9	200.7	160.7	155.6	144.3	141.3
105°	718.7	709.5	693.1	620.4	500.6	333.7	225.2	186.3	181.2	166.9	163.8
107.5°	818.0	812.8	771.9	692.0	538.5	361.4	249.8	210.9	201.7	187.3	182.2
110°	895.8	887.6	846.6	740.2	565.1	373.7	273.3	233.4	216.0	203.7	197.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	953.1	947.0	885.5	762.7	566.1	382.9	286.6	247.7	225.2	215.0	207.8
115°	980.7	971.5	910.1	765.8	562.0	391.1	295.9	253.9	232.4	222.2	211.9
117.5°	991.0	980.7	896.8	744.3	541.6	385.9	306.1	259.0	235.5	223.2	211.9
120°	958.2	949.0	866.1	707.4	523.1	384.9	304.1	264.1	236.5	220.1	207.8
122.5°	906.0	894.7	813.9	662.4	488.3	369.6	295.9	255.9	231.4	210.9	197.6
125°	833.3	823.1	732.0	596.8	460.7	355.2	289.7	241.6	217.0	196.6	183.2
127.5°	730.9	724.8	651.1	539.5	415.6	330.7	267.2	229.3	197.6	181.2	167.9
130°	626.5	622.4	572.3	478.1	379.8	306.1	250.8	214.0	178.1	163.8	151.5
132.5°	536.4	533.4	484.2	409.5	335.8	272.3	225.2	188.4	163.8	146.4	137.2
135°	453.5	452.5	407.4	355.2	292.8	246.7	199.6	169.9	150.5	131.0	123.9
137.5°	370.6	370.6	347.0	305.1	260.0	210.9	182.2	157.7	136.2	117.7	110.6
140°	308.1	304.1	291.8	251.8	218.1	192.5	156.6	137.2	119.8	106.5	101.4
142.5°	261.1	257.0	236.5	217.0	191.4	162.8	148.4	122.8	106.5	96.2	93.2
145°	224.2	223.2	201.7	194.5	172.0	153.6	126.9	117.7	99.3	88.0	86.0
147.5°	186.3	186.3	181.2	162.8	145.4	131.0	121.8	103.4	95.2	81.9	79.9
150°	156.6	156.6	157.7	144.3	137.2	125.9	108.5	95.2	90.1	77.8	75.8
152.5°	139.2	140.3	133.1	136.2	120.8	109.5	100.3	94.2	81.9	73.7	71.7
155°	131.0	132.1	121.8	116.7	108.5	104.4	97.3	85.0	75.8	71.7	68.6
157.5°	113.6	115.7	116.7	104.4	106.5	95.2	85.0	77.8	72.7	70.6	65.5
160°	99.3	100.3	101.4	103.4	91.1	89.1	87.0	79.9	73.7	69.6	64.5
162.5°	95.2	94.2	91.1	91.1	89.1	85.0	75.8	74.7	72.7	68.6	63.5
165°	92.1	93.2	90.1	80.9	82.9	77.8	76.8	67.6	67.6	66.5	63.5
167.5°	80.9	81.9	82.9	81.9	73.7	75.8	70.6	69.6	63.5	65.5	62.4
170°	71.7	72.7	71.7	73.7	75.8	69.6	67.6	68.6	62.4	64.5	61.4
172.5°	71.7	70.6	69.6	66.5	65.5	69.6	67.6	62.4	63.5	62.4	59.4
175°	68.6	69.6	69.6	68.6	66.5	63.5	61.4	62.4	63.5	59.4	56.3
177.5°	62.4	63.5	62.4	63.5	63.5	64.5	64.5	63.5	59.4	55.3	53.2
180°	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2	52.2



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	439.2	439.2	439.2	439.2
2.5°	433.0	426.9	422.8	421.8
5°	425.9	414.6	408.5	406.4
7.5°	419.7	404.4	395.2	392.1
10°	413.6	394.1	382.9	378.8
12.5°	406.4	384.9	371.6	367.5
15°	401.3	376.7	362.4	357.3
17.5°	395.2	368.5	353.2	348.1
20°	389.0	360.4	345.0	340.9
22.5°	383.9	353.2	337.8	331.7
25°	377.8	346.0	329.6	324.5
27.5°	371.6	338.9	322.5	317.4
30°	365.5	330.7	315.3	310.2
32.5°	358.3	323.5	309.2	305.1
35°	352.2	316.3	303.0	298.9
37.5°	345.0	308.1	295.9	292.8
40°	336.8	301.0	288.7	284.6
42.5°	328.6	292.8	281.5	276.4
45°	319.4	285.6	273.3	267.2
47.5°	310.2	276.4	263.1	257.0
50°	298.9	267.2	251.8	245.7
52.5°	286.6	255.9	240.6	234.4
55°	274.4	244.7	228.3	222.2
57.5°	261.1	231.4	215.0	208.8
60°	245.7	217.0	201.7	194.5
62.5°	229.3	201.7	186.3	180.2
65°	212.9	186.3	171.0	165.8
67.5°	195.5	167.9	153.6	149.5
70°	174.0	149.5	135.1	131.0
72.5°	151.5	131.0	115.7	113.6
75°	129.0	108.5	97.3	95.2
77.5°	105.4	86.0	78.8	77.8
80°	80.9	64.5	59.4	58.4
82.5°	55.3	43.0	5.1	0.0
85°	30.7	3.1	1.0	0.0
87.5°	3.1	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0
92.5°	7.2	1.0	0.0	0.0
95°	54.3	6.1	1.0	0.0
97.5°	91.1	79.9	29.7	0.0
100°	120.8	114.7	111.6	107.5
102.5°	143.3	143.3	145.4	144.3
105°	161.8	168.9	171.0	172.0
107.5°	179.2	190.4	194.5	196.6
110°	193.5	204.7	215.0	216.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
112.5°	200.7	218.1	229.3	233.4
115°	203.7	224.2	241.6	246.7
117.5°	203.7	227.3	248.8	253.9
120°	201.7	226.2	250.8	259.0
122.5°	193.5	219.1	249.8	259.0
125°	180.2	208.8	240.6	251.8
127.5°	166.9	195.5	226.2	239.6
130°	153.6	179.2	210.9	222.2
132.5°	137.2	161.8	189.4	199.6
135°	122.8	143.3	167.9	177.1
137.5°	112.6	129.0	148.4	155.6
140°	102.4	114.7	132.1	137.2
142.5°	91.1	105.4	115.7	120.8
145°	85.0	94.2	105.4	108.5
147.5°	80.9	89.1	97.3	99.3
150°	74.7	80.9	88.0	92.1
152.5°	70.6	78.8	82.9	83.9
155°	69.6	71.7	78.8	77.8
157.5°	67.6	70.6	71.7	74.7
160°	62.4	65.5	68.6	70.6
162.5°	61.4	65.5	67.6	65.5
165°	62.4	61.4	62.4	62.4
167.5°	59.4	61.4	59.4	63.5
170°	57.3	57.3	60.4	59.4
172.5°	59.4	59.4	56.3	56.3
175°	59.4	57.3	56.3	58.4
177.5°	51.2	56.3	58.4	59.4
180°	52.2	52.2	52.2	52.2

(END OF REPORT)