

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: P213082

Luminaire Tested: **DSI-WD-30L830-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213082  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35734)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WD-30L830-1D-UNV-4-STD-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 2.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2901.8 lumens  
Efficiency: N/A  
Efficacy: 129.5 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.43 / 1.52  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

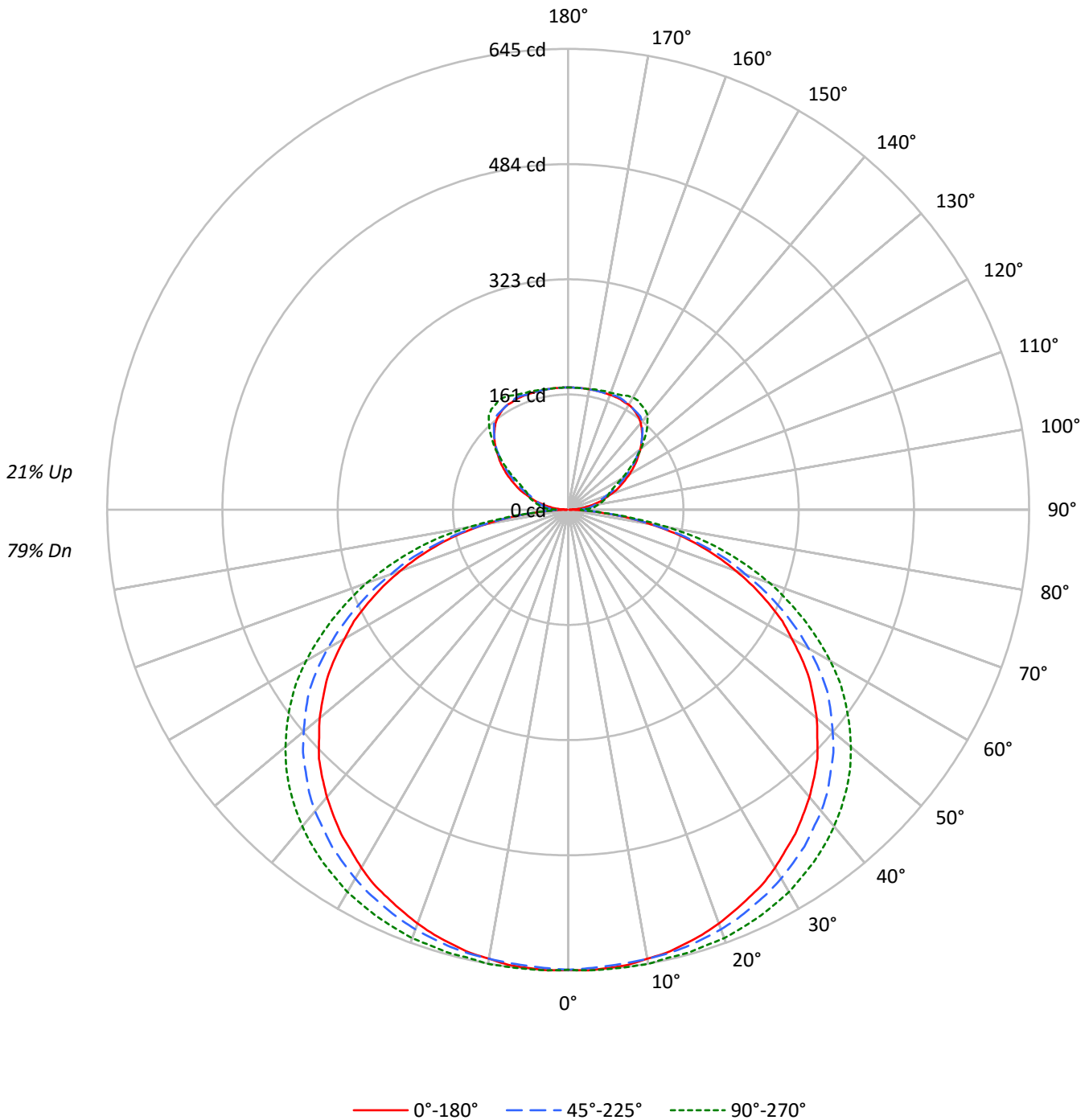
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	82	82	82	79
1	103	98	94	90	98	94	90	86	86	83	80	78	76	73	71	69	68	64
2	93	85	78	72	89	81	75	69	74	69	64	68	63	60	62	58	55	52
3	84	74	65	59	80	71	63	57	64	58	53	59	54	50	54	50	46	43
4	77	65	56	49	73	62	54	48	57	50	45	52	46	42	47	43	39	36
5	70	57	48	42	67	55	47	40	51	44	38	46	40	36	42	37	34	31
6	65	51	42	36	61	49	41	35	45	38	33	42	36	31	38	33	29	27
7	60	46	38	31	57	44	36	31	41	34	29	38	32	27	35	30	26	23
8	56	42	34	28	53	40	32	27	37	30	26	34	28	24	32	27	23	21
9	52	38	30	25	49	37	29	24	34	27	23	32	26	22	29	24	20	18
10	48	35	27	22	46	34	27	22	31	25	21	29	23	19	27	22	18	17

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2170	2170	2170
5°	2178	2168	2183
10°	2184	2184	2208
15°	2196	2211	2241
20°	2210	2242	2288
25°	2227	2275	2340
30°	2252	2319	2404
35°	2279	2369	2470
40°	2309	2424	2546
45°	2350	2474	2626
50°	2380	2532	2707
55°	2420	2599	2786
60°	2434	2620	2854
65°	2463	2625	2902
70°	2458	2601	2958
75°	2436	2549	2964
80°	2280	2307	2757
85°	1682	1794	1852



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	2.1
10°-20°	179.7	6.2
20°-30°	283.3	9.8
30°-40°	361.0	12.4
40°-50°	402.0	13.9
50°-60°	394.3	13.6
60°-70°	329.4	11.4
70°-80°	212.2	7.3
80°-90°	59.6	2.1
90°-100°	28.9	1.0
100°-110°	50.7	1.7
110°-120°	74.2	2.6
120°-130°	99.7	3.4
130°-140°	114.0	3.9
140°-150°	106.2	3.7
150°-160°	80.0	2.8
160°-170°	48.7	1.7
170°-180°	16.3	0.6
0°-30°	524.4	18.1
0°-40°	885.5	30.5
0°-60°	1681.8	58.0
0°-90°	2283.1	78.7
90°-120°	153.8	5.3
90°-150°	473.6	16.3
90°-180°	619.0	21.3
0°-180°	2901.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	644	644	644	644	644	
5°	644	644	641	645	645	61
15°	630	632	634	640	642	178
25°	599	603	612	625	630	277
35°	554	560	576	593	600	347
45°	493	500	519	542	551	380
55°	412	421	442	463	474	367
65°	309	316	329	354	364	305
75°	187	190	196	218	228	196
85°	44	45	46	49	48	52
90°	2	10	14	17	17	4
95°	14	22	29	33	36	15
105°	48	45	45	51	52	50
115°	81	80	74	70	68	81
125°	116	113	112	109	109	103
135°	146	144	146	152	155	113
145°	165	164	167	176	178	103
155°	171	171	173	176	177	79
165°	171	171	171	173	173	49
175°	171	171	171	171	171	16
180°	171	171	171	171	171	



TEST NUMBER: P213082

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-FC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	644.0	644.0	644.0	644.0	644.0
2.5°	645.4	645.4	642.5	645.4	645.4
5°	644.0	644.0	641.1	645.4	645.4
7.5°	642.5	642.5	639.6	645.4	645.4
10°	638.2	639.6	638.2	644.0	645.4
12.5°	635.3	636.7	636.7	642.5	642.5
15°	629.5	632.4	633.8	639.6	642.5
17.5°	623.7	626.6	629.5	636.7	639.6
20°	616.4	619.3	625.1	633.8	638.2
22.5°	607.7	612.0	619.3	629.5	633.8
25°	599.0	603.3	612.0	625.1	629.5
27.5°	590.3	594.6	604.8	617.8	623.7
30°	578.7	584.5	596.1	610.6	617.8
32.5°	565.6	572.9	585.9	601.9	609.1
35°	554.0	559.8	575.8	593.2	600.4
37.5°	539.5	546.8	562.7	583.0	590.3
40°	525.0	533.7	551.1	570.0	578.7
42.5°	509.1	516.3	536.6	556.9	565.6
45°	493.1	500.4	519.2	542.4	551.1
47.5°	472.8	483.0	503.3	526.5	535.2
50°	454.0	462.7	483.0	507.6	516.3
52.5°	432.2	443.8	462.7	485.9	496.0
55°	411.9	420.6	442.4	462.7	474.3
57.5°	387.2	397.4	416.3	438.0	451.1
60°	361.1	371.3	388.7	410.4	423.5
62.5°	337.9	343.7	359.7	382.9	394.5
65°	308.9	316.2	329.2	353.9	364.0
67.5°	279.9	285.7	297.3	322.0	332.1
70°	249.5	255.3	264.0	288.6	300.2
72.5°	219.0	223.4	233.5	253.8	264.0
75°	187.1	190.0	195.8	217.6	227.7
77.5°	153.7	153.7	159.5	178.4	188.5
80°	117.5	117.5	118.9	136.3	142.1
82.5°	81.2	78.3	81.2	91.4	92.8
85°	43.5	45.0	46.4	49.3	47.9
87.5°	16.0	18.9	20.3	18.9	18.9
90°	1.5	10.2	14.5	17.4	17.4
92.5°	7.3	17.4	24.7	26.1	27.6
95°	14.5	21.8	29.0	33.4	36.3
97.5°	23.2	24.7	33.4	39.2	39.2
100°	30.5	30.5	37.7	43.5	43.5
102.5°	39.2	37.7	42.1	46.4	47.9
105°	47.9	45.0	45.0	50.8	52.2
107.5°	55.1	53.7	49.3	55.1	56.6
110°	63.8	62.4	56.6	58.0	59.5



TEST NUMBER: P213082

CATALOG NUMBER: DSI-WD-30L830-1D-UNV-4-STD-FC-W

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	74.0	71.1	65.3	62.4	62.4
115°	81.2	79.8	74.0	69.6	68.2
117.5°	89.9	87.0	82.7	78.3	75.4
120°	98.6	95.7	91.4	88.5	85.6
122.5°	107.3	105.9	101.5	98.6	97.2
125°	116.0	113.1	111.7	108.8	108.8
127.5°	123.3	121.8	120.4	120.4	120.4
130°	132.0	129.1	130.5	130.5	133.4
132.5°	139.2	136.3	139.2	142.1	143.6
135°	146.5	143.6	146.5	152.3	155.2
137.5°	152.3	150.8	153.7	161.0	163.9
140°	158.1	156.6	161.0	168.2	172.6
142.5°	162.4	161.0	165.3	172.6	176.9
145°	165.3	163.9	166.8	175.5	178.4
147.5°	168.2	166.8	168.2	178.4	181.3
150°	169.7	169.7	169.7	178.4	181.3
152.5°	169.7	169.7	171.1	175.5	179.8
155°	171.1	171.1	172.6	175.5	176.9
157.5°	171.1	171.1	172.6	174.0	175.5
160°	171.1	171.1	171.1	174.0	174.0
162.5°	171.1	171.1	171.1	172.6	174.0
165°	171.1	171.1	171.1	172.6	172.6
167.5°	171.1	171.1	171.1	172.6	172.6
170°	171.1	171.1	171.1	171.1	171.1
172.5°	171.1	171.1	171.1	171.1	171.1
175°	171.1	171.1	171.1	171.1	171.1
177.5°	171.1	171.1	171.1	171.1	171.1
180°	171.1	171.1	171.1	171.1	171.1

(END OF REPORT)