

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: P213012

Luminaire Tested: **DSI-WS-30L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213012  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35729)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WS-30L830-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 2.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2821.4 lumens  
Efficiency: N/A  
Efficacy: 126.0 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.49 / 1.57  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

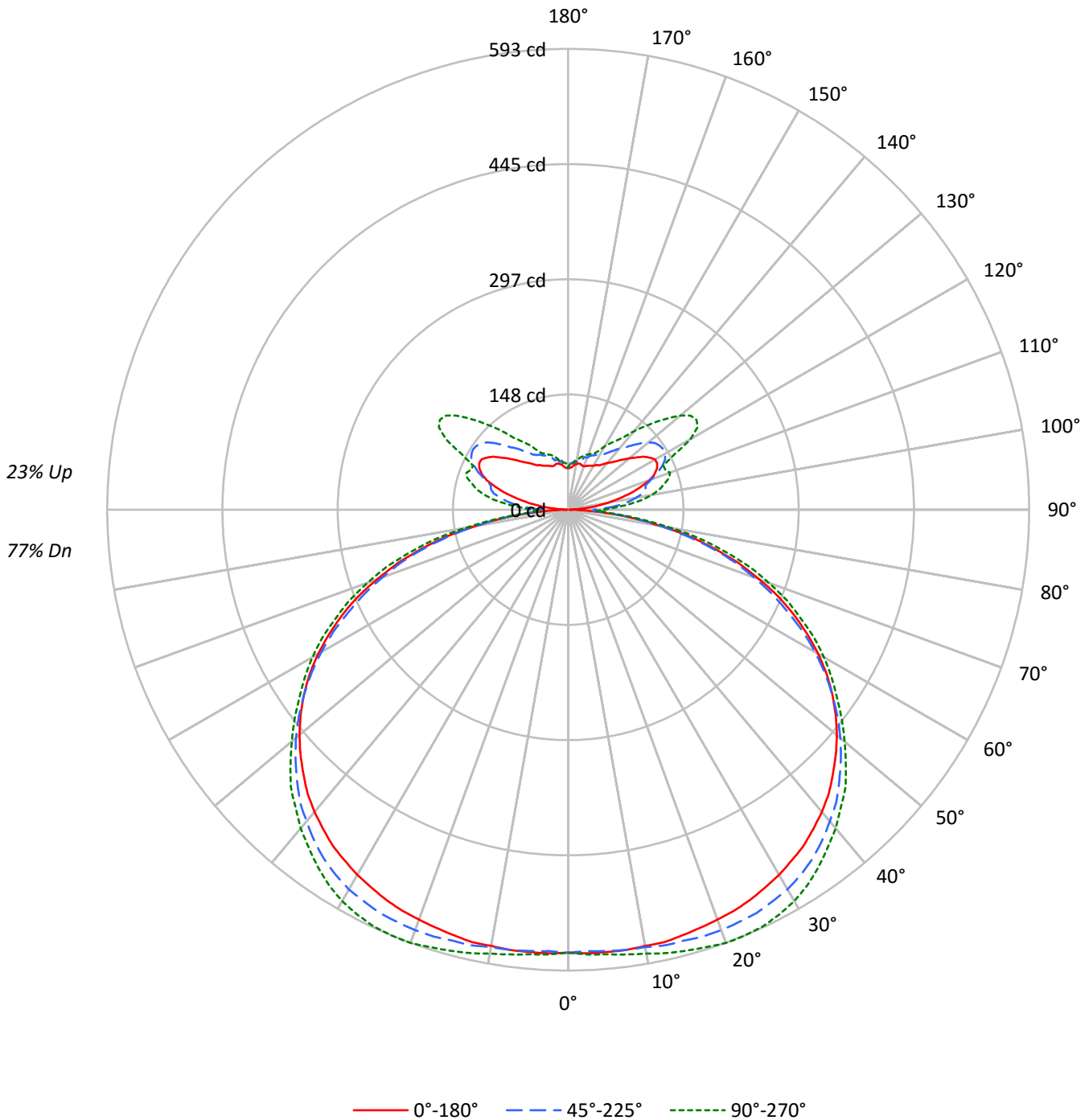
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P213012

CATALOG NUMBER: DSI-WS-30L830-1D-UNV-4-STD-DC-W

### Luminous Intensity Polar Plot





TEST NUMBER: P213012

CATALOG NUMBER: DSI-WS-30L830-1D-UNV-4-STD-DC-W

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18

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

	0°	45°	90°
0°	1921	1921	1921
5°	1933	1928	1943
10°	1950	1955	1985
15°	1978	2003	2049
20°	2013	2065	2127
25°	2060	2130	2200
30°	2110	2195	2263
35°	2172	2255	2309
40°	2233	2303	2354
45°	2294	2350	2405
50°	2365	2395	2433
55°	2437	2437	2480
60°	2502	2473	2561
65°	2555	2486	2625
70°	2572	2500	2700
75°	2549	2492	2720
80°	2336	2336	2589
85°	1852	2130	2242



TEST NUMBER: P213012

CATALOG NUMBER: DSI-WS-30L830-1D-UNV-4-STD-DC-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.7	1.9
10°-20°	163.4	5.8
20°-30°	264.6	9.4
30°-40°	342.0	12.1
40°-50°	380.6	13.5
50°-60°	373.1	13.2
60°-70°	316.7	11.2
70°-80°	207.8	7.4
80°-90°	67.7	2.4
90°-100°	63.2	2.2
100°-110°	108.9	3.9
110°-120°	131.4	4.7
120°-130°	134.8	4.8
130°-140°	94.9	3.4
140°-150°	57.8	2.0
150°-160°	34.9	1.2
160°-170°	19.0	0.7
170°-180°	5.8	0.2
<hr/>		
0°-30°	482.7	17.1
0°-40°	824.7	29.2
0°-60°	1578.5	55.9
0°-90°	2170.7	76.9
90°-120°	303.5	10.8
90°-150°	591.0	20.9
90°-180°	651.0	23.1
0°-180°	2821.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	570	570	570	570	570	
5°	571	571	570	574	574	55
15°	567	570	574	584	587	161
25°	554	560	573	587	592	256
35°	528	535	548	558	561	330
45°	482	487	493	500	505	372
55°	415	415	415	421	422	370
65°	320	318	312	328	329	316
75°	196	191	191	209	209	205
85°	48	49	55	60	58	55
90°	2	20	33	42	45	4
95°	22	46	65	75	77	24
105°	84	84	103	123	128	88
115°	126	122	133	136	135	123
125°	119	125	144	183	202	106
135°	88	100	118	145	160	69
145°	70	80	90	103	109	45
155°	62	70	77	80	80	29
165°	61	64	65	70	71	17
175°	55	61	60	61	61	5
180°	54	54	54	54	54	



TEST NUMBER: P213012

CATALOG NUMBER: DSI-WS-30L830-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	570.0	570.0	570.0	570.0	570.0
2.5°	571.4	571.4	568.5	571.4	572.9
5°	571.4	571.4	570.0	574.3	574.3
7.5°	571.4	571.4	571.4	575.8	577.2
10°	570.0	571.4	571.4	578.7	580.1
12.5°	570.0	571.4	574.3	581.6	584.5
15°	567.1	570.0	574.3	584.5	587.4
17.5°	564.2	568.5	575.8	587.4	590.3
20°	561.3	567.1	575.8	588.8	593.2
22.5°	558.4	564.2	574.3	588.8	593.2
25°	554.0	559.8	572.9	587.4	591.7
27.5°	548.2	555.5	568.5	583.0	587.4
30°	542.4	551.1	564.2	577.2	581.6
32.5°	535.2	543.9	556.9	570.0	572.9
35°	527.9	535.2	548.2	558.4	561.3
37.5°	517.8	523.6	536.6	546.8	548.2
40°	507.6	513.4	523.6	533.7	535.2
42.5°	496.0	500.4	510.5	517.8	519.2
45°	481.5	487.3	493.1	500.4	504.7
47.5°	467.0	471.4	475.7	483.0	484.4
50°	451.1	454.0	456.9	464.1	464.1
52.5°	433.7	436.6	436.6	442.4	443.8
55°	414.8	414.8	414.8	420.6	422.1
57.5°	394.5	394.5	391.6	398.8	401.7
60°	371.3	371.3	366.9	375.6	380.0
62.5°	346.6	345.2	340.8	351.0	356.8
65°	320.5	317.6	311.8	327.8	329.2
67.5°	293.0	290.1	284.3	300.2	304.6
70°	261.1	261.1	253.8	272.7	274.1
72.5°	230.6	226.3	224.8	240.8	245.1
75°	195.8	191.4	191.4	208.9	208.9
77.5°	161.0	155.2	155.2	171.1	175.5
80°	120.4	118.9	120.4	132.0	133.4
82.5°	85.6	81.2	85.6	92.8	94.3
85°	47.9	49.3	55.1	59.5	58.0
87.5°	18.9	26.1	31.9	34.8	36.3
90°	1.5	20.3	33.4	42.1	45.0
92.5°	8.7	33.4	47.9	56.6	59.5
95°	21.8	46.4	65.3	75.4	76.9
97.5°	36.3	55.1	78.3	91.4	95.7
100°	52.2	63.8	88.5	104.4	108.8
102.5°	68.2	74.0	98.6	114.6	120.4
105°	84.1	84.1	103.0	123.3	127.6
107.5°	98.6	95.7	104.4	129.1	136.3
110°	111.7	105.9	113.1	127.6	139.2



TEST NUMBER: P213012

CATALOG NUMBER: DSI-WS-30L830-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	120.4	114.6	124.7	127.6	134.9
115°	126.2	121.8	133.4	136.3	134.9
117.5°	129.1	126.2	140.7	159.5	153.7
120°	129.1	129.1	143.6	175.5	181.3
122.5°	124.7	129.1	145.0	182.7	197.2
125°	118.9	124.7	143.6	182.7	201.6
127.5°	110.2	118.9	140.7	176.9	198.7
130°	103.0	113.1	134.9	168.2	188.5
132.5°	95.7	107.3	126.2	156.6	174.0
135°	88.5	100.1	117.5	145.0	159.5
137.5°	82.7	94.3	108.8	133.4	145.0
140°	78.3	91.4	103.0	120.4	132.0
142.5°	74.0	85.6	95.7	110.2	117.5
145°	69.6	79.8	89.9	103.0	108.8
147.5°	68.2	78.3	84.1	95.7	101.5
150°	65.3	74.0	81.2	89.9	94.3
152.5°	63.8	71.1	79.8	84.1	85.6
155°	62.4	69.6	76.9	79.8	79.8
157.5°	60.9	69.6	75.4	75.4	78.3
160°	59.5	65.3	71.1	76.9	75.4
162.5°	59.5	63.8	71.1	74.0	74.0
165°	60.9	63.8	65.3	69.6	71.1
167.5°	60.9	63.8	66.7	66.7	68.2
170°	59.5	60.9	62.4	66.7	63.8
172.5°	58.0	60.9	63.8	62.4	60.9
175°	55.1	60.9	59.5	60.9	60.9
177.5°	53.7	55.1	59.5	60.9	59.5
180°	53.7	53.7	53.7	53.7	53.7

(END OF REPORT)