

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: P213003

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213003  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35728)  
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-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC, LIGHT LEVEL 2.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2864.6 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Spacing Criteria (0/90/45): 1.4 / 1.47 / 1.54  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

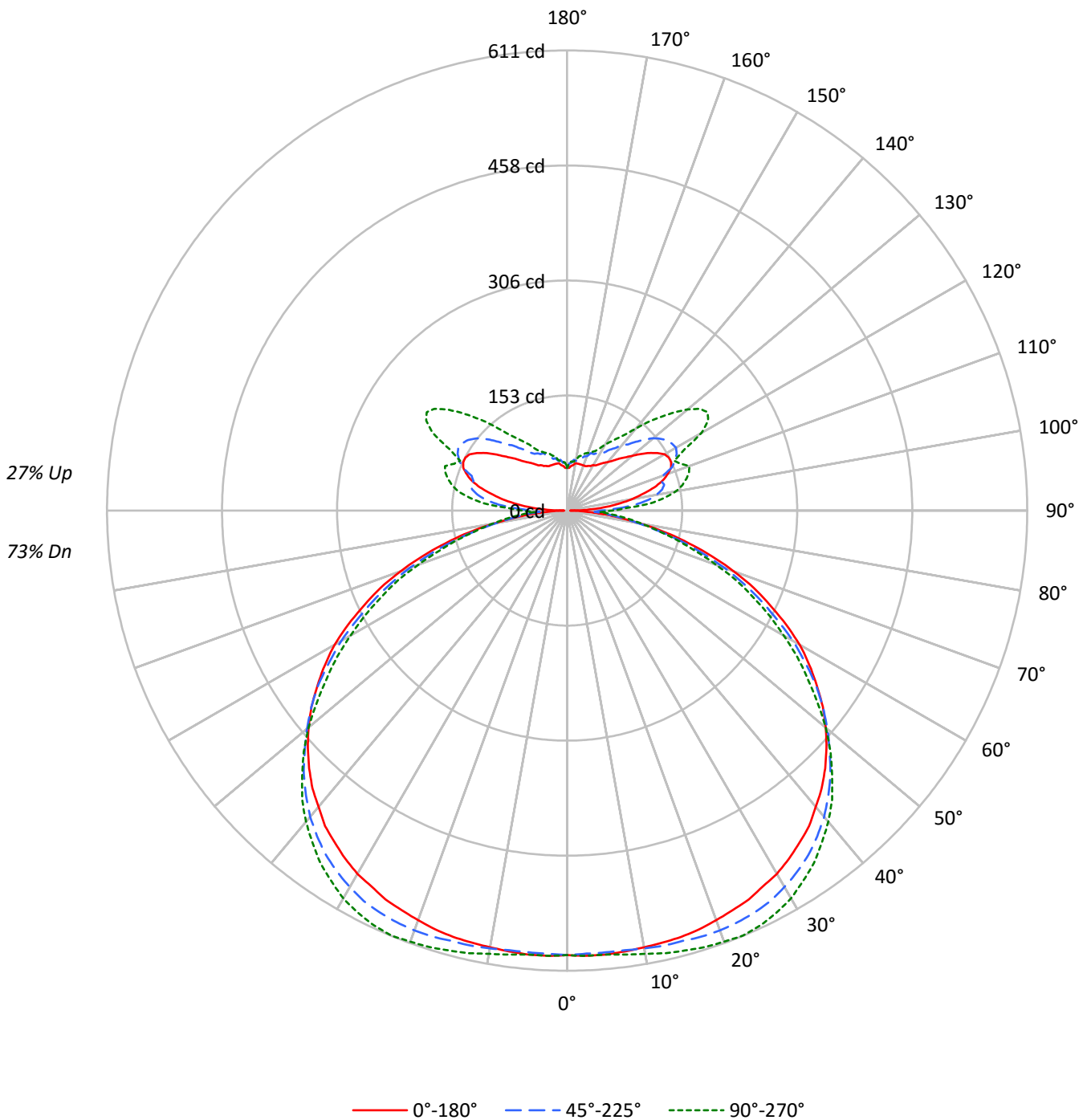
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P213003

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

### Luminous Intensity Polar Plot





TEST NUMBER: P213003

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

**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	113	113	113	113	107	107	107	107	96	96	96	86	86	86	77	77	77	73
1	102	97	93	89	97	92	89	85	83	80	78	75	73	70	67	65	64	60
2	92	84	77	72	87	80	74	69	72	67	63	65	61	58	58	55	53	49
3	84	74	65	59	79	70	63	57	63	57	52	57	52	48	51	47	44	41
4	77	65	56	49	72	62	54	48	56	49	44	50	45	41	45	41	37	34
5	70	57	49	42	66	55	47	41	50	43	38	45	39	35	40	36	32	29
6	65	51	43	36	61	49	41	35	45	38	33	40	35	30	36	32	28	25
7	60	46	38	32	56	44	36	31	40	34	29	37	31	27	33	28	25	22
8	55	42	34	28	52	40	32	27	37	30	25	33	28	24	30	26	22	20
9	51	38	30	25	49	37	29	24	34	27	23	31	25	21	28	23	20	18
10	48	35	27	22	46	34	27	22	31	25	20	28	23	19	26	21	18	16

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

	0°	45°	90°
0°	1989	1989	1989
5°	2001	1992	2001
10°	2015	2020	2044
15°	2044	2064	2110
20°	2075	2127	2184
25°	2119	2189	2259
30°	2167	2246	2313
35°	2213	2297	2350
40°	2258	2335	2373
45°	2308	2357	2371
50°	2350	2365	2350
55°	2377	2369	2292
60°	2405	2336	2238
65°	2370	2267	2174
70°	2315	2186	2072
75°	2172	2039	1963
80°	1886	1830	1970
85°	1516	2018	2354



TEST NUMBER: P213003

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

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.5	2.0
10°-20°	168.4	5.9
20°-30°	271.8	9.5
30°-40°	348.3	12.2
40°-50°	380.3	13.3
50°-60°	357.4	12.5
60°-70°	282.0	9.8
70°-80°	167.1	5.8
80°-90°	61.3	2.1
90°-100°	90.1	3.1
100°-110°	142.1	5.0
110°-120°	156.0	5.4
120°-130°	152.4	5.3
130°-140°	104.2	3.6
140°-150°	62.6	2.2
150°-160°	37.5	1.3
160°-170°	20.4	0.7
170°-180°	6.2	0.2
0°-30°	496.6	17.3
0°-40°	844.9	29.5
0°-60°	1582.6	55.2
0°-90°	2093.0	73.1
90°-120°	388.3	13.6
90°-150°	707.4	24.7
90°-180°	772.0	27.0
0°-180°	2864.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	590	590	590	590	590	
5°	592	592	589	592	592	56
15°	586	587	592	602	605	166
25°	570	576	589	603	608	263
35°	538	545	558	570	571	337
45°	484	489	495	499	498	373
55°	405	406	403	396	390	362
65°	297	294	284	278	273	294
75°	167	164	157	151	151	176
85°	39	42	52	60	61	44
90°	4	26	45	55	60	7
95°	49	70	91	107	112	47
105°	120	115	133	157	164	124
115°	152	146	158	157	157	149
125°	133	142	162	204	228	119
135°	97	109	129	158	176	76
145°	75	87	99	112	118	48
155°	65	74	83	86	87	30
165°	64	70	71	74	75	18
175°	60	65	64	65	65	6
180°	57	57	57	57	57	



TEST NUMBER: P213003

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	590.3	590.3	590.3	590.3	590.3
2.5°	591.7	591.7	588.8	591.7	591.7
5°	591.7	591.7	588.8	591.7	591.7
7.5°	590.3	590.3	588.8	594.6	594.6
10°	588.8	590.3	590.3	597.5	597.5
12.5°	587.4	588.8	591.7	599.0	601.9
15°	585.9	587.4	591.7	601.9	604.8
17.5°	583.0	585.9	593.2	604.8	607.7
20°	578.7	583.0	593.2	606.2	609.1
22.5°	574.3	580.1	591.7	604.8	610.6
25°	570.0	575.8	588.8	603.3	607.7
27.5°	562.7	570.0	584.5	597.5	601.9
30°	556.9	564.2	577.2	590.3	594.6
32.5°	548.2	555.5	568.5	580.1	583.0
35°	538.1	545.3	558.4	570.0	571.4
37.5°	527.9	535.2	545.3	554.0	555.5
40°	513.4	520.7	530.8	536.6	539.5
42.5°	500.4	507.6	513.4	519.2	520.7
45°	484.4	488.8	494.6	498.9	497.5
47.5°	467.0	471.4	472.8	477.2	474.3
50°	448.2	451.1	451.1	451.1	448.2
52.5°	427.9	427.9	427.9	423.5	419.2
55°	404.6	406.1	403.2	395.9	390.1
57.5°	381.4	381.4	374.2	366.9	362.6
60°	356.8	352.4	346.6	336.5	332.1
62.5°	327.8	323.4	314.7	307.5	303.1
65°	297.3	294.4	284.3	278.5	272.7
67.5°	268.3	264.0	253.8	245.1	243.7
70°	235.0	232.1	221.9	214.7	210.3
72.5°	201.6	197.2	188.5	182.7	178.4
75°	166.8	163.9	156.6	150.8	150.8
77.5°	133.4	130.5	123.3	123.3	123.3
80°	97.2	97.2	94.3	98.6	101.5
82.5°	66.7	66.7	71.1	78.3	79.8
85°	39.2	42.1	52.2	59.5	60.9
87.5°	17.4	24.7	36.3	42.1	43.5
90°	4.4	26.1	45.0	55.1	59.5
92.5°	26.1	49.3	68.2	75.4	78.3
95°	49.3	69.6	91.4	107.3	111.7
97.5°	68.2	82.7	108.8	126.2	130.5
100°	87.0	88.5	120.4	140.7	146.5
102.5°	103.0	101.5	129.1	149.4	156.6
105°	120.4	114.6	133.4	156.6	163.9
107.5°	133.4	124.7	130.5	162.4	169.7
110°	142.1	134.9	134.9	158.1	172.6



TEST NUMBER: P213003

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	149.4	142.1	150.8	150.8	162.4
115°	152.3	146.5	158.1	156.6	156.6
117.5°	152.3	149.4	163.9	184.2	175.5
120°	149.4	150.8	166.8	201.6	206.0
122.5°	142.1	147.9	165.3	207.4	221.9
125°	133.4	142.1	162.4	204.5	227.7
127.5°	123.3	134.9	156.6	198.7	221.9
130°	113.1	126.2	149.4	187.1	208.9
132.5°	104.4	118.9	139.2	172.6	192.9
135°	97.2	108.8	129.1	158.1	175.5
137.5°	89.9	103.0	118.9	145.0	159.5
140°	84.1	98.6	113.1	130.5	142.1
142.5°	79.8	92.8	104.4	118.9	127.6
145°	75.4	87.0	98.6	111.7	117.5
147.5°	71.1	84.1	91.4	104.4	108.8
150°	69.6	79.8	87.0	97.2	101.5
152.5°	66.7	75.4	85.6	91.4	92.8
155°	65.3	74.0	82.7	85.6	87.0
157.5°	63.8	74.0	82.7	82.7	84.1
160°	63.8	69.6	76.9	82.7	81.2
162.5°	63.8	68.2	75.4	81.2	79.8
165°	63.8	69.6	71.1	74.0	75.4
167.5°	63.8	68.2	71.1	72.5	74.0
170°	63.8	65.3	66.7	71.1	68.2
172.5°	60.9	65.3	68.2	66.7	65.3
175°	59.5	65.3	63.8	65.3	65.3
177.5°	56.6	59.5	62.4	63.8	63.8
180°	56.6	56.6	56.6	56.6	56.6

(END OF REPORT)