

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: P213026

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213026  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35730)  
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-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR 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: 2824.2 lumens  
Efficiency: N/A  
Efficacy: 126.1 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.45 / 1.53  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

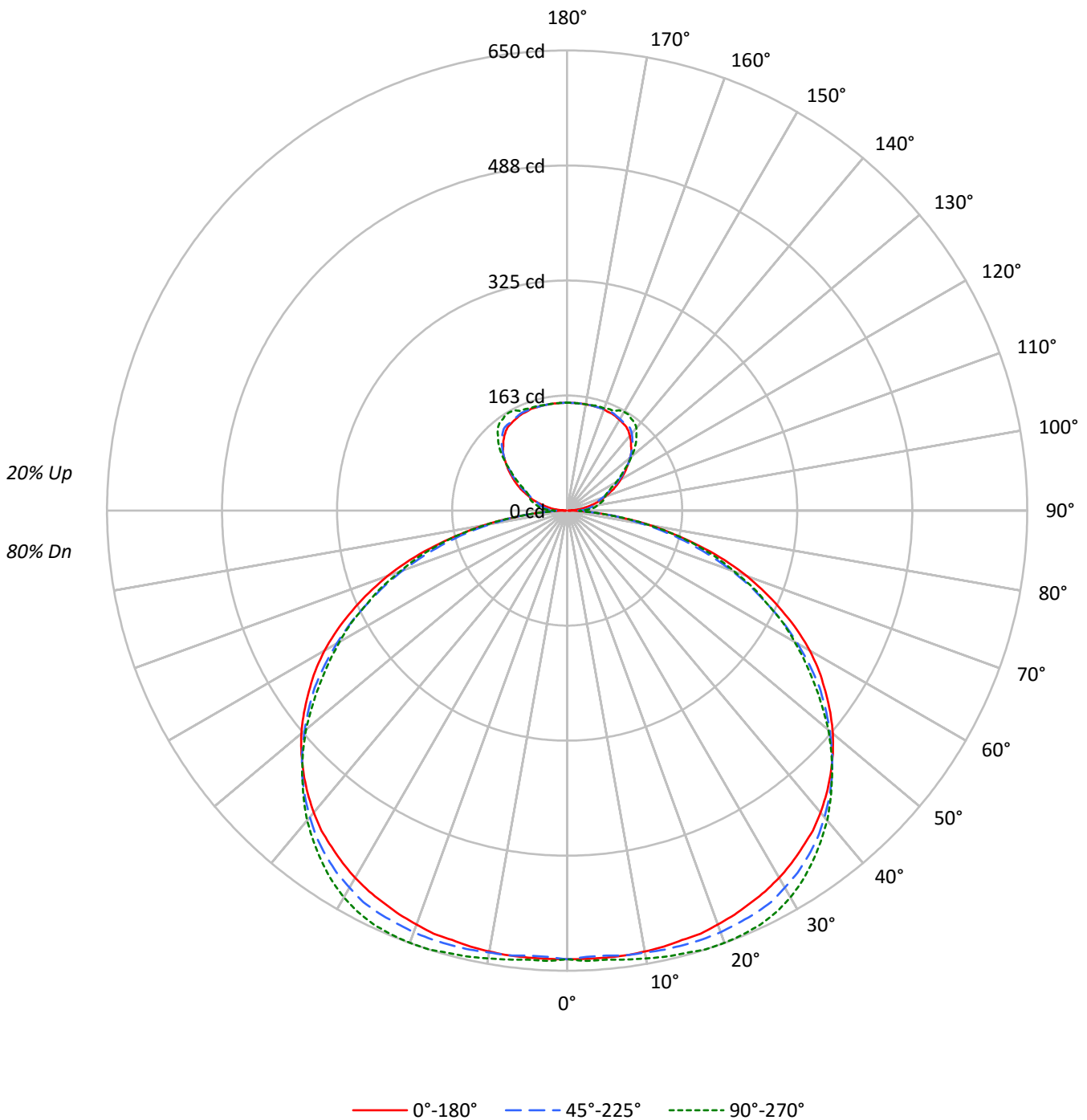
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100	92	92	92	84	84	84	80
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	69	66
2	94	85	78	73	89	82	76	70	75	70	66	69	65	61	63	60	57	54
3	85	74	66	60	81	71	64	58	66	59	54	60	55	51	55	51	48	45
4	78	65	57	50	74	63	55	48	58	51	46	53	48	43	49	44	40	38
5	71	58	49	42	67	56	47	41	51	44	39	47	41	37	44	39	35	32
6	65	52	43	37	62	50	42	36	46	39	34	43	37	32	39	34	30	28
7	60	47	38	32	57	45	37	31	42	35	30	39	33	28	36	31	27	24
8	56	43	34	28	53	41	33	28	38	31	26	35	29	25	33	27	24	21
9	52	39	31	25	50	37	30	25	35	28	23	32	26	22	30	25	21	19
10	49	36	28	23	47	34	27	22	32	26	21	30	24	20	28	23	19	17

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

	0°	45°	90°
0°	2136	2136	2136
5°	2144	2134	2154
10°	2164	2169	2198
15°	2191	2216	2257
20°	2231	2273	2330
25°	2275	2335	2400
30°	2331	2392	2455
35°	2386	2446	2488
40°	2450	2488	2513
45°	2509	2523	2523
50°	2570	2539	2524
55°	2616	2556	2505
60°	2668	2531	2502
65°	2671	2486	2486
70°	2658	2429	2472
75°	2530	2323	2454
80°	2307	2111	2280
85°	1794	1794	1682



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	2.1
10°-20°	180.5	6.4
20°-30°	290.2	10.3
30°-40°	371.7	13.2
40°-50°	408.0	14.4
50°-60°	389.0	13.8
60°-70°	315.6	11.2
70°-80°	195.5	6.9
80°-90°	56.3	2.0
90°-100°	28.8	1.0
100°-110°	48.2	1.7
110°-120°	67.6	2.4
120°-130°	89.2	3.2
130°-140°	101.0	3.6
140°-150°	93.6	3.3
150°-160°	70.6	2.5
160°-170°	43.3	1.5
170°-180°	14.5	0.5
0°-30°	531.4	18.8
0°-40°	903.1	32.0
0°-60°	1700.1	60.2
0°-90°	2267.5	80.3
90°-120°	144.5	5.1
90°-150°	428.3	15.2
90°-180°	557.0	19.7
0°-180°	2824.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	634	634	634	634	634	
5°	634	634	631	637	637	60
15°	628	631	635	644	647	178
25°	612	618	628	641	645	283
35°	580	586	595	602	605	364
45°	526	529	529	531	529	406
55°	445	442	435	429	426	398
65°	335	328	312	313	312	331
75°	194	186	178	187	188	205
85°	46	45	46	46	44	53
90°	2	10	14	17	17	4
95°	13	22	29	35	36	14
105°	42	42	44	51	52	45
115°	72	71	67	64	64	71
125°	102	100	99	99	97	91
135°	128	126	130	136	138	99
145°	145	144	148	155	158	90
155°	151	151	152	154	155	70
165°	152	152	152	154	154	43
175°	152	152	152	152	152	15
180°	152	152	152	152	152	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	633.8	633.8	633.8	633.8	633.8
2.5°	633.8	633.8	630.9	635.3	636.7
5°	633.8	633.8	630.9	636.7	636.7
7.5°	633.8	633.8	633.8	638.2	639.6
10°	632.4	633.8	633.8	641.1	642.5
12.5°	630.9	633.8	635.3	642.5	645.4
15°	628.0	630.9	635.3	644.0	646.9
17.5°	626.6	629.5	635.3	646.9	649.8
20°	622.2	626.6	633.8	645.4	649.8
22.5°	617.9	622.2	630.9	644.0	648.3
25°	612.0	617.9	628.0	641.1	645.4
27.5°	606.2	612.0	623.7	635.3	639.6
30°	599.0	604.8	614.9	626.6	630.9
32.5°	590.3	596.1	606.2	616.4	619.3
35°	580.1	585.9	594.6	601.9	604.8
37.5°	570.0	574.3	581.6	587.4	588.8
40°	556.9	561.3	565.6	570.0	571.4
42.5°	542.4	546.8	548.2	551.1	551.1
45°	526.5	529.4	529.4	530.8	529.4
47.5°	509.1	510.5	507.6	507.6	506.2
50°	490.2	490.2	484.4	483.0	481.5
52.5°	468.5	467.0	459.8	456.9	454.0
55°	445.3	442.4	435.1	429.3	426.4
57.5°	422.1	417.7	406.1	400.3	398.8
60°	395.9	390.1	375.6	371.3	371.3
62.5°	366.9	359.7	345.2	342.3	343.7
65°	335.0	327.8	311.8	313.3	311.8
67.5°	303.1	294.4	279.9	282.8	284.3
70°	269.8	261.1	246.6	250.9	250.9
72.5°	233.5	223.4	211.8	220.5	221.9
75°	194.3	185.6	178.4	187.1	188.5
77.5°	155.2	149.4	143.6	153.7	155.2
80°	118.9	111.7	108.8	117.5	117.5
82.5°	78.3	76.9	78.3	82.7	81.2
85°	46.4	45.0	46.4	46.4	43.5
87.5°	20.3	20.3	18.9	16.0	17.4
90°	1.5	10.2	14.5	17.4	17.4
92.5°	7.3	17.4	24.7	27.6	27.6
95°	13.1	21.8	29.0	34.8	36.3
97.5°	20.3	24.7	33.4	39.2	40.6
100°	27.6	27.6	37.7	42.1	43.5
102.5°	34.8	34.8	40.6	46.4	47.9
105°	42.1	42.1	43.5	50.8	52.2
107.5°	50.8	49.3	46.4	52.2	55.1
110°	56.6	56.6	53.7	55.1	56.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	63.8	63.8	59.5	58.0	59.5
115°	72.5	71.1	66.7	63.8	63.8
117.5°	79.8	78.3	75.4	72.5	71.1
120°	87.0	85.6	82.7	81.2	79.8
122.5°	94.3	94.3	91.4	89.9	88.5
125°	101.5	100.1	98.6	98.6	97.2
127.5°	108.8	107.3	108.8	108.8	108.8
130°	116.0	113.1	116.0	117.5	118.9
132.5°	123.3	120.4	123.3	127.6	129.1
135°	127.6	126.2	130.5	136.3	137.8
137.5°	133.4	132.0	136.3	143.6	145.0
140°	137.8	137.8	142.1	149.4	152.3
142.5°	142.1	140.7	146.5	152.3	156.6
145°	145.0	143.6	147.9	155.2	158.1
147.5°	146.5	146.5	147.9	158.1	161.0
150°	147.9	147.9	149.4	158.1	161.0
152.5°	149.4	149.4	150.8	155.2	159.5
155°	150.8	150.8	152.3	153.7	155.2
157.5°	150.8	150.8	152.3	153.7	155.2
160°	152.3	152.3	152.3	153.7	153.7
162.5°	152.3	152.3	152.3	153.7	153.7
165°	152.3	152.3	152.3	153.7	153.7
167.5°	152.3	152.3	152.3	152.3	152.3
170°	152.3	152.3	152.3	152.3	152.3
172.5°	152.3	152.3	152.3	152.3	152.3
175°	152.3	152.3	152.3	152.3	152.3
177.5°	152.3	152.3	152.3	152.3	152.3
180°	152.3	152.3	152.3	152.3	152.3

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