

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: P213073

Luminaire Tested: **DSI-WD-30L835-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35733)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WD-30L835-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 2.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3039.2 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.34 / 1.47 / 1.55  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

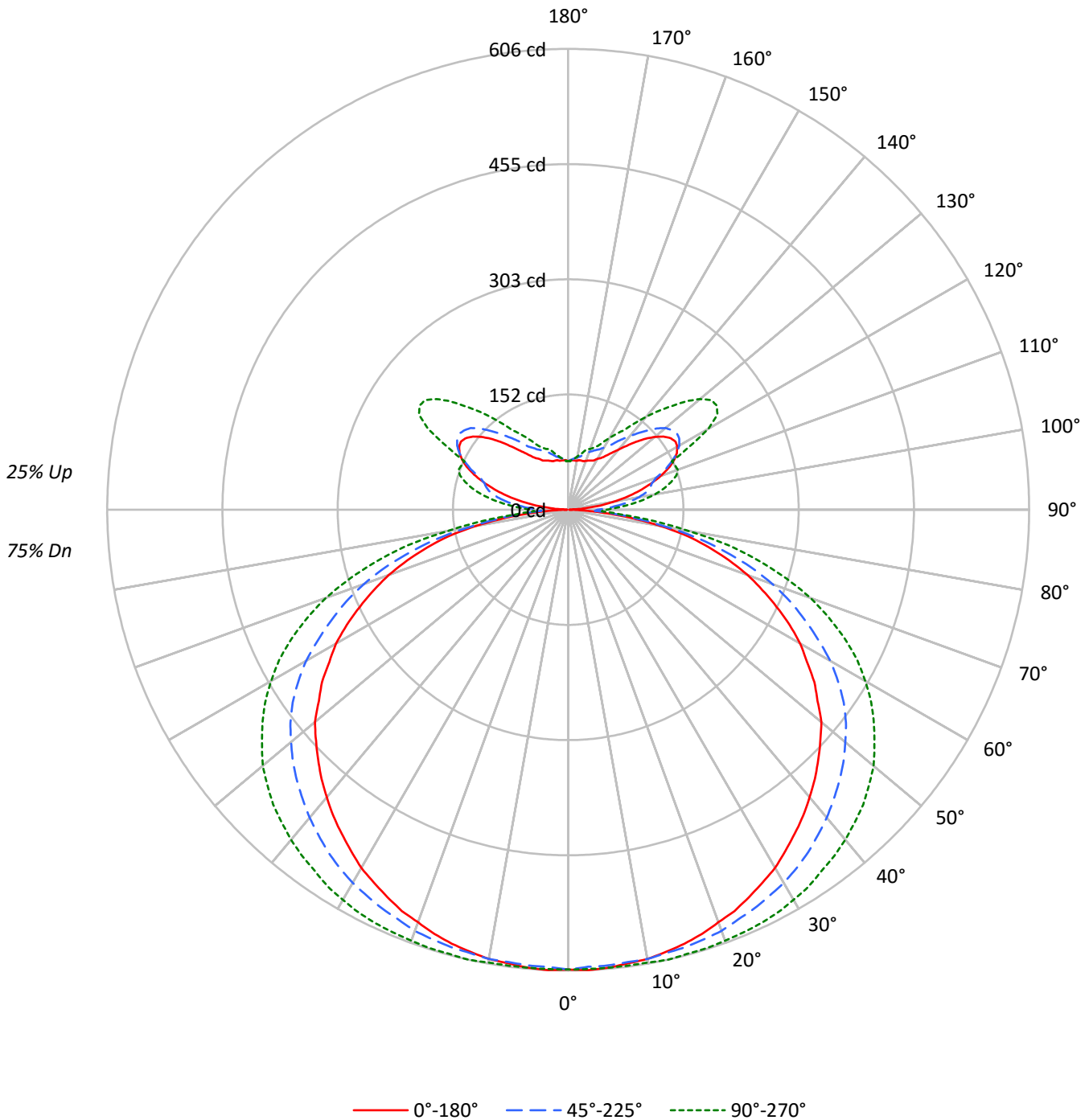
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	102	97	92	88	97	92	88	84	83	80	77	75	73	70	68	66	64	60
2	92	83	76	70	87	79	73	67	72	67	62	65	61	57	58	55	52	49
3	83	72	64	57	79	69	61	55	62	56	51	56	51	47	51	47	43	40
4	76	63	55	48	71	60	52	46	55	48	43	50	44	39	45	40	36	33
5	69	56	47	40	65	54	45	39	49	42	36	44	38	34	40	35	31	28
6	64	50	41	35	60	48	40	34	44	37	31	40	34	29	36	31	27	24
7	59	45	36	30	56	43	35	29	39	32	27	36	30	26	32	27	24	21
8	54	41	32	27	52	39	31	26	36	29	24	33	27	23	30	25	21	19
9	51	37	29	24	48	36	28	23	33	26	22	30	24	20	27	22	19	17
10	47	34	26	21	45	33	26	21	30	24	19	28	22	18	25	20	17	15

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

	0°	45°	90°
0°	2037	2037	2037
5°	2045	2035	2045
10°	2053	2053	2069
15°	2061	2077	2109
20°	2070	2113	2163
25°	2090	2152	2231
30°	2116	2205	2305
35°	2137	2262	2387
40°	2172	2326	2492
45°	2215	2403	2613
50°	2278	2493	2747
55°	2320	2597	2883
60°	2375	2682	3041
65°	2410	2737	3197
70°	2470	2814	3338
75°	2492	2789	3382
80°	2387	2565	3124
85°	1763	2289	2644



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.6	1.9
10°-20°	169.0	5.6
20°-30°	268.1	8.8
30°-40°	344.8	11.3
40°-50°	390.8	12.9
50°-60°	395.2	13.0
60°-70°	345.3	11.4
70°-80°	232.4	7.6
80°-90°	74.2	2.4
90°-100°	67.1	2.2
100°-110°	119.7	3.9
110°-120°	152.5	5.0
120°-130°	166.3	5.5
130°-140°	119.8	3.9
140°-150°	69.5	2.3
150°-160°	39.5	1.3
160°-170°	21.1	0.7
170°-180°	6.4	0.2
0°-30°	494.6	16.3
0°-40°	839.5	27.6
0°-60°	1625.4	53.5
0°-90°	2277.4	74.9
90°-120°	339.3	11.2
90°-150°	694.9	22.9
90°-180°	762.0	25.1
0°-180°	3039.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	605	605	602	605	605	58
15°	591	592	596	603	605	167
25°	562	568	579	594	600	260
35°	520	529	550	571	580	326
45°	465	478	504	536	548	359
55°	395	412	442	474	491	352
65°	302	322	343	383	401	299
75°	191	204	214	246	260	201
85°	46	49	59	67	68	54
90°	2	23	38	49	50	4
95°	23	47	67	79	82	27
105°	97	96	111	132	140	102
115°	153	147	150	153	150	150
125°	164	164	175	216	238	145
135°	126	134	147	176	193	98
145°	87	97	108	122	128	56
155°	71	78	87	90	93	33
165°	67	70	74	78	79	19
175°	65	65	67	67	67	6
180°	64	64	64	64	64	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	604.6	604.6	604.6	604.6	604.6
2.5°	606.1	604.6	601.6	604.6	604.6
5°	604.6	604.6	601.6	604.6	604.6
7.5°	601.6	603.1	600.0	604.6	604.6
10°	600.0	600.0	600.0	604.6	604.6
12.5°	595.5	597.0	597.0	603.1	606.1
15°	590.9	592.5	595.5	603.1	604.6
17.5°	584.9	587.9	592.5	601.6	604.6
20°	577.3	581.8	589.4	600.0	603.1
22.5°	571.2	575.7	583.3	597.0	601.6
25°	562.1	568.1	578.8	594.0	600.0
27.5°	553.0	559.0	572.7	589.4	597.0
30°	543.8	551.4	566.6	584.9	592.5
32.5°	531.7	540.8	559.0	578.8	587.9
35°	519.5	528.7	549.9	571.2	580.3
37.5°	507.4	518.0	539.3	563.6	574.2
40°	493.7	504.3	528.7	556.0	566.6
42.5°	480.0	492.2	516.5	545.4	557.5
45°	464.8	478.5	504.3	536.2	548.4
47.5°	449.7	463.3	490.7	524.1	536.2
50°	434.5	448.1	475.5	508.9	524.1
52.5°	413.2	429.9	460.3	492.2	507.4
55°	395.0	411.7	442.1	474.0	490.7
57.5°	372.2	391.9	420.8	454.2	472.4
60°	352.4	369.1	398.0	432.9	451.2
62.5°	328.1	346.4	370.7	408.6	428.4
65°	302.3	322.1	343.3	382.8	401.0
67.5°	276.5	294.7	316.0	352.4	370.7
70°	250.7	267.4	285.6	322.1	338.8
72.5°	221.8	237.0	252.2	285.6	300.8
75°	191.4	203.6	214.2	246.1	259.8
77.5°	161.0	167.1	176.2	203.6	215.7
80°	123.0	127.6	132.2	154.9	161.0
82.5°	83.6	86.6	92.7	106.3	112.4
85°	45.6	48.6	59.2	66.8	68.4
87.5°	15.2	24.3	34.9	41.0	44.1
90°	1.5	22.8	38.0	48.6	50.1
92.5°	7.6	34.9	51.6	60.8	63.8
95°	22.8	47.1	66.8	79.0	82.0
97.5°	42.5	59.2	82.0	95.7	100.3
100°	60.8	69.9	94.2	110.9	115.5
102.5°	80.5	80.5	104.8	123.0	129.1
105°	97.2	95.7	110.9	132.2	139.8
107.5°	113.9	109.4	115.5	139.8	148.9
110°	129.1	123.0	123.0	141.3	153.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.8	135.2	138.2	141.3	151.9
115°	153.4	147.4	150.4	153.4	150.4
117.5°	161.0	156.5	161.0	183.8	179.3
120°	165.6	162.5	168.6	203.6	212.7
122.5°	167.1	165.6	173.2	212.7	232.4
125°	164.1	164.1	174.7	215.7	238.5
127.5°	158.0	161.0	171.7	211.2	237.0
130°	148.9	153.4	167.1	202.0	226.3
132.5°	138.2	144.3	158.0	189.9	211.2
135°	126.1	133.7	147.4	176.2	192.9
137.5°	113.9	123.0	136.7	161.0	176.2
140°	103.3	113.9	126.1	147.4	159.5
142.5°	94.2	104.8	117.0	133.7	142.8
145°	86.6	97.2	107.9	121.5	127.6
147.5°	80.5	91.1	98.7	113.9	118.5
150°	77.5	85.1	94.2	104.8	109.4
152.5°	72.9	80.5	89.6	95.7	100.3
155°	71.4	77.5	86.6	89.6	92.7
157.5°	69.9	74.4	83.6	86.6	88.1
160°	68.4	72.9	80.5	85.1	85.1
162.5°	66.8	71.4	77.5	82.0	83.6
165°	66.8	69.9	74.4	77.5	79.0
167.5°	66.8	68.4	71.4	74.4	74.4
170°	65.3	66.8	69.9	71.4	71.4
172.5°	65.3	66.8	68.4	69.9	68.4
175°	65.3	65.3	66.8	66.8	66.8
177.5°	65.3	65.3	65.3	65.3	63.8
180°	63.8	63.8	63.8	63.8	63.8

(END OF REPORT)