

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: P213092

Luminaire Tested: **DSI-WD-30L840-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213092  
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-30L840-1D-UNV-4-STD-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 2.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3075.9 lumens  
Efficiency: N/A  
Efficacy: 137.3 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

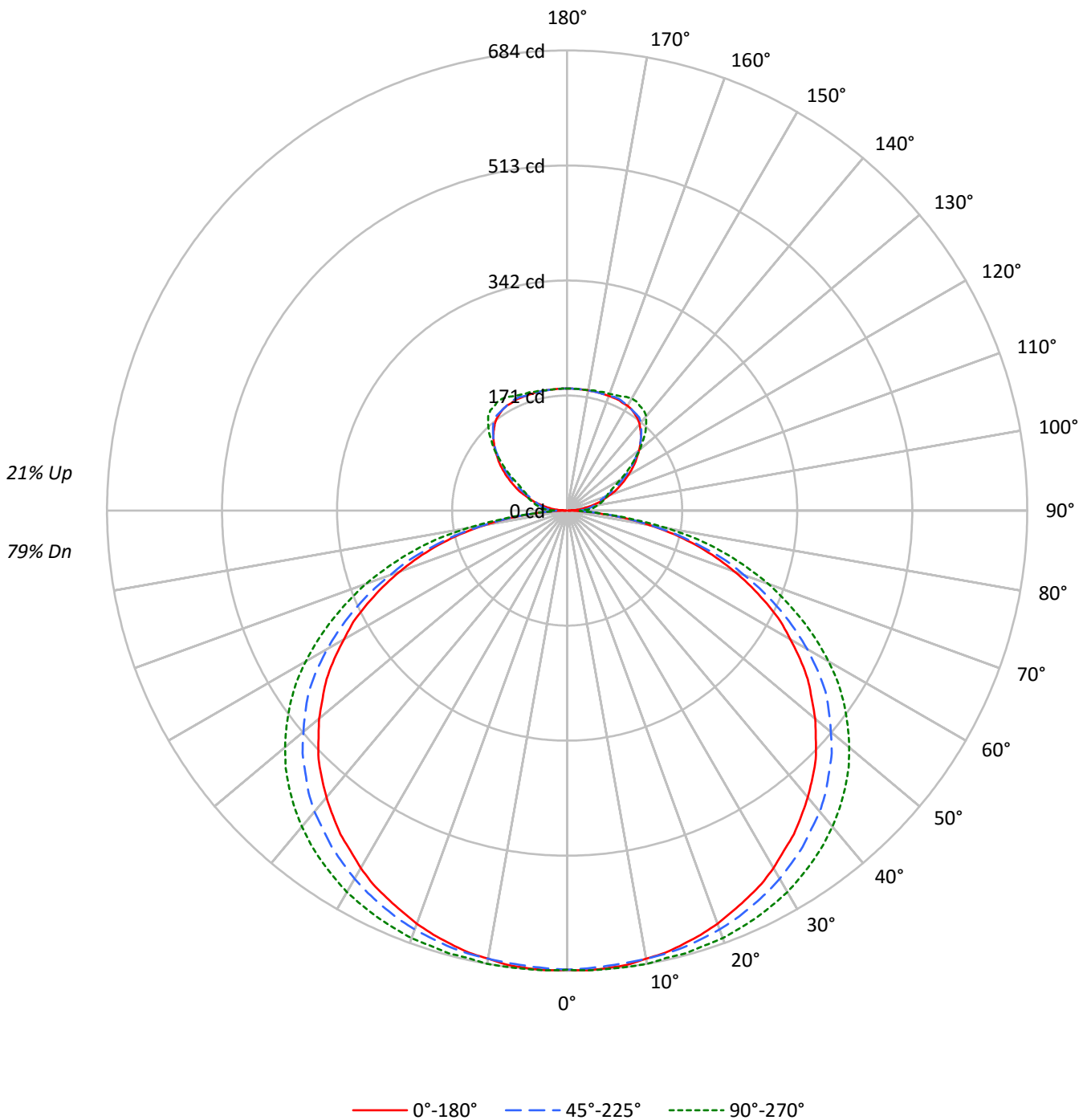
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2300	2300	2300
5°	2309	2298	2314
10°	2314	2314	2341
15°	2327	2344	2376
20°	2343	2376	2425
25°	2361	2412	2481
30°	2387	2459	2548
35°	2416	2510	2618
40°	2448	2570	2698
45°	2491	2623	2784
50°	2523	2683	2869
55°	2565	2755	2953
60°	2580	2777	3025
65°	2611	2783	3077
70°	2605	2757	3135
75°	2582	2701	3143
80°	2416	2447	2924
85°	1782	1902	1960



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.1	2.1
10°-20°	190.5	6.2
20°-30°	300.3	9.8
30°-40°	382.7	12.4
40°-50°	426.2	13.9
50°-60°	418.0	13.6
60°-70°	349.2	11.4
70°-80°	225.0	7.3
80°-90°	63.2	2.1
90°-100°	30.6	1.0
100°-110°	53.7	1.7
110°-120°	78.6	2.6
120°-130°	105.7	3.4
130°-140°	120.9	3.9
140°-150°	112.5	3.7
150°-160°	84.8	2.8
160°-170°	51.6	1.7
170°-180°	17.3	0.6
0°-30°	555.9	18.1
0°-40°	938.6	30.5
0°-60°	1782.7	58.0
0°-90°	2420.1	78.7
90°-120°	162.9	5.3
90°-150°	502.0	16.3
90°-180°	656.0	21.3
0°-180°	3075.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	683	683	680	684	684	65
15°	667	670	672	678	681	189
25°	635	640	649	663	667	293
35°	587	593	610	629	636	367
45°	523	530	550	575	584	402
55°	437	446	469	490	503	389
65°	328	335	349	375	386	323
75°	198	201	208	231	241	208
85°	46	48	49	52	51	55
90°	2	11	15	18	18	4
95°	15	23	31	35	38	16
105°	51	48	48	54	55	53
115°	86	85	78	74	72	86
125°	123	120	118	115	115	110
135°	155	152	155	161	164	119
145°	175	174	177	186	189	110
155°	181	181	183	186	188	84
165°	181	181	181	183	183	51
175°	181	181	181	181	181	17
180°	181	181	181	181	181	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	682.6	682.6	682.6	682.6	682.6
2.5°	684.1	684.1	681.1	684.1	684.1
5°	682.6	682.6	679.5	684.1	684.1
7.5°	681.1	681.1	678.0	684.1	684.1
10°	676.4	678.0	676.4	682.6	684.1
12.5°	673.4	674.9	674.9	681.1	681.1
15°	667.2	670.3	671.8	678.0	681.1
17.5°	661.1	664.1	667.2	674.9	678.0
20°	653.4	656.5	662.6	671.8	676.4
22.5°	644.2	648.8	656.5	667.2	671.8
25°	634.9	639.5	648.8	662.6	667.2
27.5°	625.7	630.3	641.1	654.9	661.1
30°	613.4	619.6	631.9	647.2	654.9
32.5°	599.6	607.3	621.1	638.0	645.7
35°	587.3	593.4	610.3	628.8	636.5
37.5°	571.9	579.6	596.5	618.0	625.7
40°	556.5	565.8	584.2	604.2	613.4
42.5°	539.6	547.3	568.8	590.4	599.6
45°	522.7	530.4	550.4	575.0	584.2
47.5°	501.2	511.9	533.5	558.1	567.3
50°	481.2	490.4	511.9	538.1	547.3
52.5°	458.1	470.4	490.4	515.0	525.8
55°	436.6	445.8	468.9	490.4	502.7
57.5°	410.5	421.2	441.2	464.3	478.1
60°	382.8	393.6	412.0	435.1	448.9
62.5°	358.2	364.4	381.3	405.9	418.2
65°	327.5	335.1	349.0	375.1	385.9
67.5°	296.7	302.9	315.2	341.3	352.1
70°	264.4	270.6	279.8	305.9	318.2
72.5°	232.1	236.8	247.5	269.0	279.8
75°	198.3	201.4	207.5	230.6	241.4
77.5°	163.0	163.0	169.1	189.1	199.9
80°	124.5	124.5	126.1	144.5	150.7
82.5°	86.1	83.0	86.1	96.9	98.4
85°	46.1	47.7	49.2	52.3	50.7
87.5°	16.9	20.0	21.5	20.0	20.0
90°	1.5	10.8	15.4	18.4	18.4
92.5°	7.7	18.4	26.1	27.7	29.2
95°	15.4	23.1	30.7	35.4	38.4
97.5°	24.6	26.1	35.4	41.5	41.5
100°	32.3	32.3	40.0	46.1	46.1
102.5°	41.5	40.0	44.6	49.2	50.7
105°	50.7	47.7	47.7	53.8	55.3
107.5°	58.4	56.9	52.3	58.4	60.0
110°	67.6	66.1	60.0	61.5	63.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	78.4	75.3	69.2	66.1	66.1
115°	86.1	84.6	78.4	73.8	72.3
117.5°	95.3	92.2	87.6	83.0	79.9
120°	104.5	101.5	96.9	93.8	90.7
122.5°	113.8	112.2	107.6	104.5	103.0
125°	123.0	119.9	118.4	115.3	115.3
127.5°	130.7	129.1	127.6	127.6	127.6
130°	139.9	136.8	138.4	138.4	141.4
132.5°	147.6	144.5	147.6	150.7	152.2
135°	155.3	152.2	155.3	161.4	164.5
137.5°	161.4	159.9	163.0	170.6	173.7
140°	167.6	166.0	170.6	178.3	182.9
142.5°	172.2	170.6	175.3	182.9	187.6
145°	175.3	173.7	176.8	186.0	189.1
147.5°	178.3	176.8	178.3	189.1	192.2
150°	179.9	179.9	179.9	189.1	192.2
152.5°	179.9	179.9	181.4	186.0	190.6
155°	181.4	181.4	182.9	186.0	187.6
157.5°	181.4	181.4	182.9	184.5	186.0
160°	181.4	181.4	181.4	184.5	184.5
162.5°	181.4	181.4	181.4	182.9	184.5
165°	181.4	181.4	181.4	182.9	182.9
167.5°	181.4	181.4	181.4	182.9	182.9
170°	181.4	181.4	181.4	181.4	181.4
172.5°	181.4	181.4	181.4	181.4	181.4
175°	181.4	181.4	181.4	181.4	181.4
177.5°	181.4	181.4	181.4	181.4	181.4
180°	181.4	181.4	181.4	181.4	181.4

(END OF REPORT)