

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: P213059

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213059  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35732)  
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-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 2.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3079.0 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.33 / 1.45 / 1.52  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

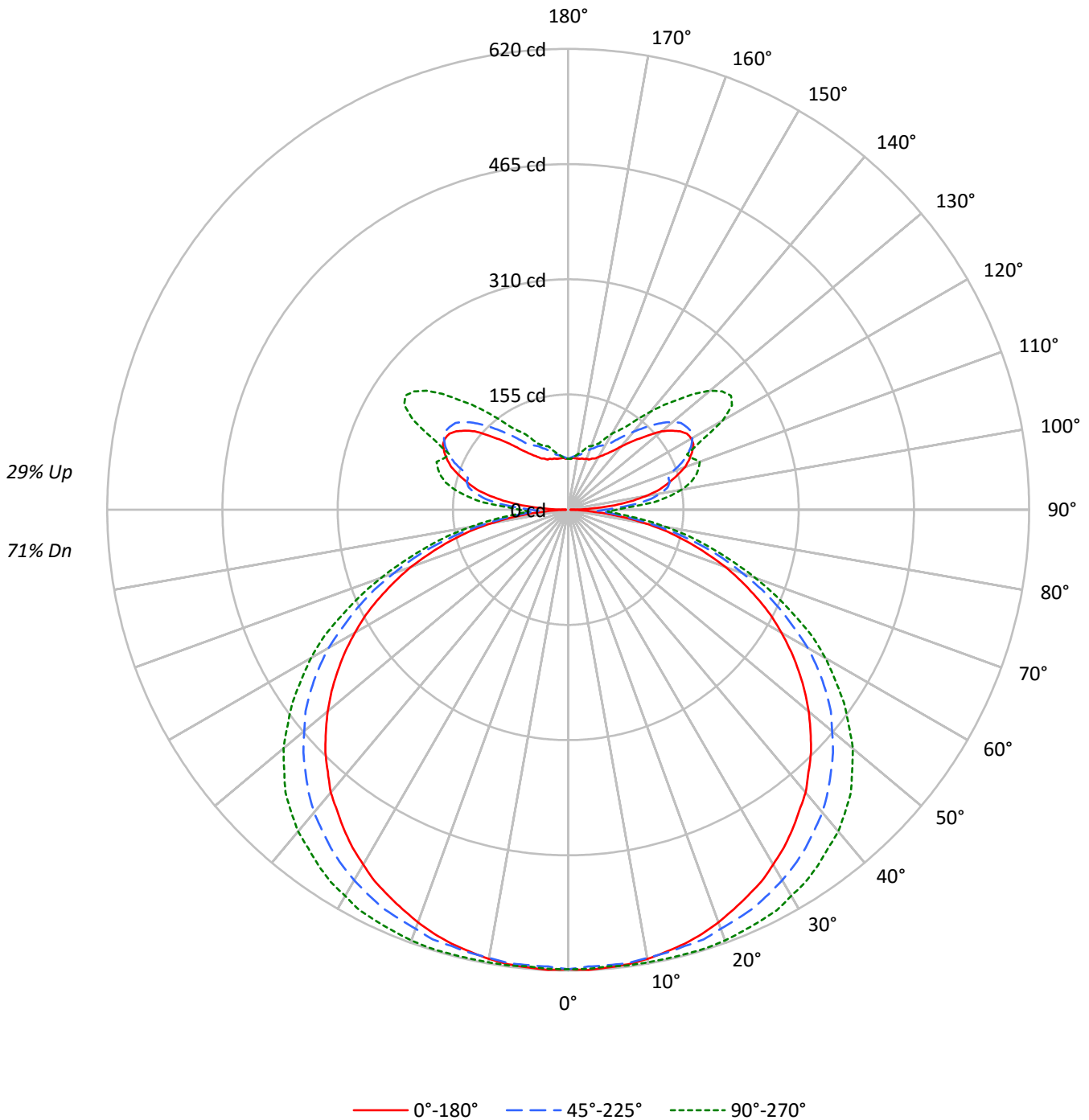
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	58
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	24
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	19
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

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

	0°	45°	90°
0°	2083	2083	2083
5°	2091	2081	2086
10°	2100	2095	2116
15°	2109	2120	2157
20°	2119	2151	2212
25°	2129	2197	2271
30°	2145	2240	2335
35°	2162	2287	2406
40°	2185	2339	2486
45°	2201	2382	2563
50°	2214	2429	2620
55°	2222	2481	2659
60°	2232	2508	2692
65°	2228	2495	2677
70°	2215	2454	2634
75°	2156	2412	2591
80°	2034	2270	2594
85°	1469	2289	2702



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.9	1.9
10°-20°	172.7	5.6
20°-30°	273.1	8.9
30°-40°	348.2	11.3
40°-50°	385.8	12.5
50°-60°	374.0	12.1
60°-70°	307.2	10.0
70°-80°	194.2	6.3
80°-90°	71.0	2.3
90°-100°	94.3	3.1
100°-110°	155.4	5.0
110°-120°	180.1	5.9
120°-130°	186.7	6.1
130°-140°	130.8	4.2
140°-150°	74.6	2.4
150°-160°	42.5	1.4
160°-170°	22.5	0.7
170°-180°	6.8	0.2
0°-30°	504.7	16.4
0°-40°	852.9	27.7
0°-60°	1612.8	52.4
0°-90°	2185.2	71.0
90°-120°	429.9	14.0
90°-150°	821.9	26.7
90°-180°	894.0	29.0
0°-180°	3079.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	618	618	618	618	618	
5°	618	618	615	617	617	59
15°	605	606	608	617	618	171
25°	573	579	591	606	611	264
35°	526	536	556	577	585	329
45°	462	476	500	527	538	356
55°	378	395	422	444	453	338
65°	280	295	313	330	336	276
75°	166	176	185	191	199	174
85°	38	46	59	68	70	46
90°	3	29	50	61	65	6
95°	58	68	93	109	116	56
105°	140	126	141	167	178	147
115°	184	176	178	175	176	181
125°	184	187	194	240	267	163
135°	135	147	161	191	210	106
145°	93	105	116	131	137	59
155°	76	84	94	97	99	35
165°	71	74	79	84	84	20
175°	70	70	71	71	70	7
180°	68	68	68	68	68	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	618.3	618.3	618.3	618.3	618.3
2.5°	619.8	619.8	615.2	618.3	618.3
5°	618.3	618.3	615.2	616.8	616.8
7.5°	616.8	616.8	615.2	618.3	618.3
10°	613.7	613.7	612.2	616.8	618.3
12.5°	609.2	609.2	610.7	616.8	618.3
15°	604.6	606.1	607.6	616.8	618.3
17.5°	598.5	600.0	606.1	615.2	618.3
20°	590.9	594.0	600.0	612.2	616.8
22.5°	581.8	586.4	595.5	609.2	613.7
25°	572.7	578.8	590.9	606.1	610.7
27.5°	563.6	569.7	583.3	601.6	607.6
30°	551.4	559.0	575.7	594.0	600.0
32.5°	539.3	548.4	566.6	586.4	594.0
35°	525.6	536.2	556.0	577.3	584.9
37.5°	510.4	522.6	543.8	566.6	574.2
40°	496.8	507.4	531.7	556.0	565.1
42.5°	478.5	492.2	516.5	540.8	551.4
45°	461.8	475.5	499.8	527.1	537.8
47.5°	442.1	457.3	483.1	510.4	518.0
50°	422.3	437.5	463.3	489.2	499.8
52.5°	401.0	416.2	445.1	467.9	475.5
55°	378.3	395.0	422.3	443.6	452.7
57.5°	355.5	372.2	398.0	417.8	425.4
60°	331.2	346.4	372.2	390.4	399.5
62.5°	306.9	320.5	341.8	361.5	370.7
65°	279.5	294.7	312.9	329.6	335.7
67.5°	252.2	265.8	282.6	296.2	302.3
70°	224.8	237.0	249.1	262.8	267.4
72.5°	194.4	206.6	218.8	226.3	232.4
75°	165.6	176.2	185.3	191.4	199.0
77.5°	136.7	144.3	150.4	162.5	167.1
80°	104.8	110.9	117.0	129.1	133.7
82.5°	71.4	76.0	85.1	95.7	100.3
85°	38.0	45.6	59.2	68.4	69.9
87.5°	15.2	25.8	39.5	48.6	53.2
90°	3.0	28.9	50.1	60.8	65.3
92.5°	25.8	48.6	68.4	79.0	82.0
95°	57.7	68.4	92.7	109.4	115.5
97.5°	83.6	86.6	112.4	130.6	136.7
100°	106.3	97.2	126.1	148.9	154.9
102.5°	126.1	112.4	136.7	159.5	168.6
105°	139.8	126.1	141.3	167.1	177.7
107.5°	153.4	141.3	141.3	173.2	183.8
110°	167.1	154.9	148.9	173.2	188.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	176.2	167.1	165.6	168.6	180.8
115°	183.8	176.2	177.7	174.7	176.2
117.5°	189.9	183.8	186.9	211.2	202.0
120°	191.4	188.4	192.9	232.4	240.0
122.5°	189.9	189.9	196.0	240.0	261.3
125°	183.8	186.9	194.4	240.0	267.4
127.5°	174.7	179.3	191.4	233.9	261.3
130°	164.1	170.1	183.8	221.8	249.1
132.5°	148.9	159.5	173.2	208.1	230.9
135°	135.2	147.4	161.0	191.4	209.6
137.5°	123.0	135.2	148.9	174.7	191.4
140°	110.9	123.0	136.7	158.0	171.7
142.5°	100.3	113.9	126.1	142.8	153.4
145°	92.7	104.8	115.5	130.6	136.7
147.5°	86.6	97.2	106.3	121.5	126.1
150°	82.0	91.1	101.8	112.4	118.5
152.5°	77.5	86.6	97.2	103.3	107.9
155°	76.0	83.6	94.2	97.2	98.7
157.5°	72.9	80.5	89.6	94.2	94.2
160°	72.9	77.5	86.6	91.1	91.1
162.5°	71.4	76.0	82.0	88.1	89.6
165°	71.4	74.4	79.0	83.6	83.6
167.5°	69.9	72.9	76.0	79.0	79.0
170°	69.9	71.4	74.4	76.0	76.0
172.5°	69.9	71.4	72.9	72.9	72.9
175°	69.9	69.9	71.4	71.4	69.9
177.5°	68.4	69.9	69.9	69.9	68.4
180°	68.4	68.4	68.4	68.4	68.4

(END OF REPORT)