

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: P213064

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213064  
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-30L840-1D-UNV-4-STD-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 2.  
Light Source: (308) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3116.0 lumens  
Efficiency: N/A  
Efficacy: 139.1 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

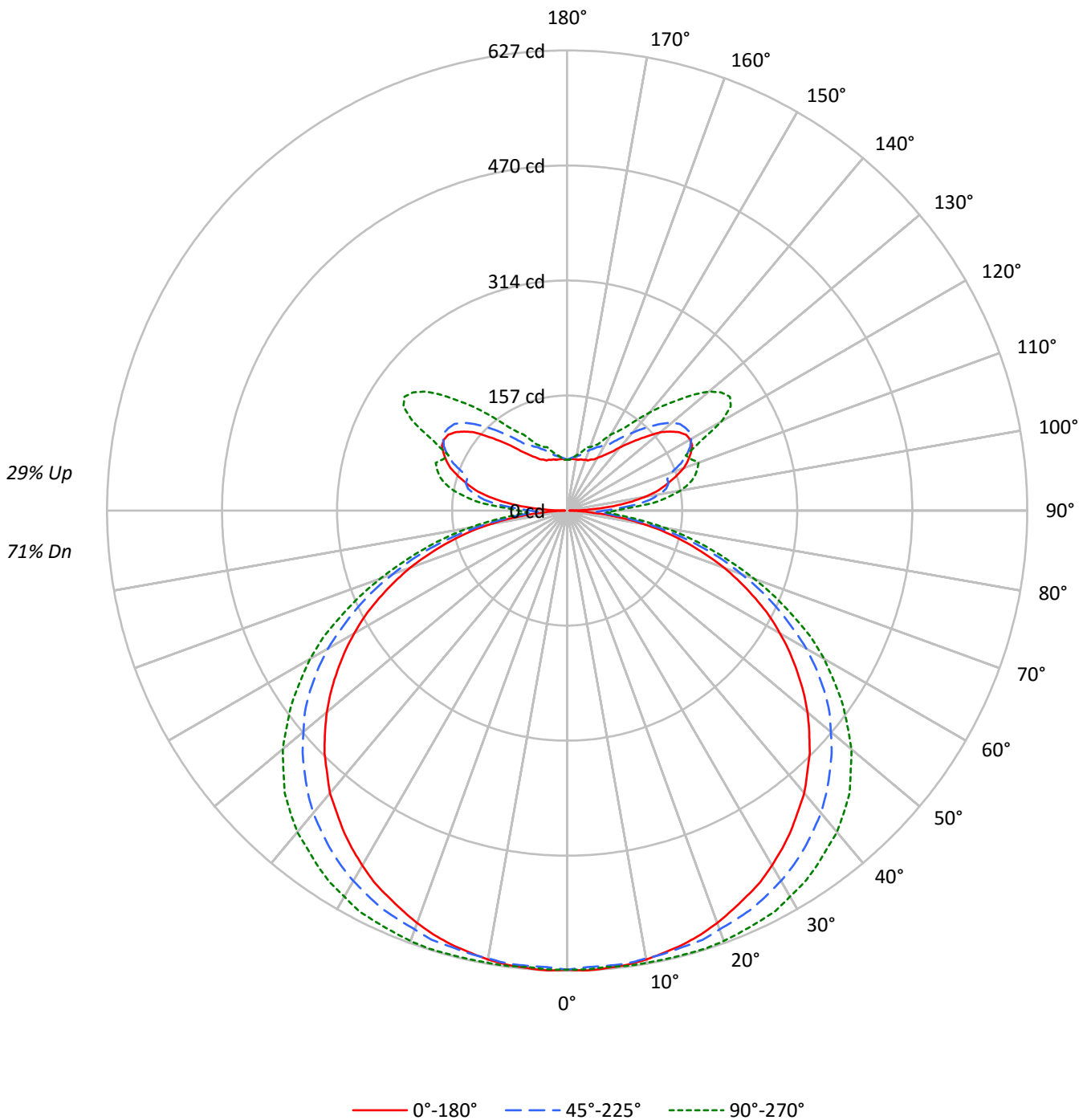
Input Watts (W): 22.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P213064

CATALOG NUMBER: DSI-WD-30L840-1D-UNV-4-STD-W

### Luminous Intensity Polar Plot





TEST NUMBER: P213064

CATALOG NUMBER: DSI-WD-30L840-1D-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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	75	75	75	71	
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	65	63	62	58	
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	56	53	51	47	
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	49	45	42	39	
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	43	39	36	33	
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28	
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	35	30	27	24	
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	32	27	24	21	
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	29	24	21	19	
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	27	22	19	17	
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	25	20	17	15	

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

	0°	45°	90°
0°	2108	2108	2108
5°	2116	2106	2111
10°	2125	2120	2141
15°	2135	2145	2183
20°	2144	2178	2238
25°	2155	2223	2298
30°	2171	2267	2363
35°	2188	2315	2435
40°	2211	2367	2516
45°	2227	2410	2593
50°	2240	2458	2651
55°	2249	2511	2691
60°	2258	2539	2725
65°	2256	2525	2709
70°	2241	2484	2666
75°	2182	2442	2622
80°	2059	2298	2625
85°	1485	2320	2733



TEST NUMBER: P213064

CATALOG NUMBER: DSI-WD-30L840-1D-UNV-4-STD-W

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	1.9
10°-20°	174.8	5.6
20°-30°	276.4	8.9
30°-40°	352.4	11.3
40°-50°	390.5	12.5
50°-60°	378.5	12.1
60°-70°	310.9	10.0
70°-80°	196.6	6.3
80°-90°	71.9	2.3
90°-100°	95.5	3.1
100°-110°	157.3	5.0
110°-120°	182.3	5.9
120°-130°	188.9	6.1
130°-140°	132.4	4.2
140°-150°	75.5	2.4
150°-160°	43.0	1.4
160°-170°	22.7	0.7
170°-180°	6.9	0.2
0°-30°	510.8	16.4
0°-40°	863.2	27.7
0°-60°	1632.2	52.4
0°-90°	2211.5	71.0
90°-120°	435.0	14.0
90°-150°	831.8	26.7
90°-180°	905.0	29.0
0°-180°	3116.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	626	626	623	624	624	60
15°	612	613	615	624	626	173
25°	580	586	598	613	618	268
35°	532	543	563	584	592	333
45°	467	481	506	534	544	360
55°	383	400	427	449	458	342
65°	283	298	317	334	340	280
75°	168	178	188	194	201	177
85°	38	46	60	69	71	47
90°	3	29	51	62	66	7
95°	58	69	94	111	117	57
105°	141	128	143	169	180	149
115°	186	178	180	177	178	183
125°	186	189	197	243	271	165
135°	137	149	163	194	212	107
145°	94	106	117	132	138	60
155°	77	85	95	98	100	36
165°	72	75	80	85	85	20
175°	71	71	72	72	71	7
180°	69	69	69	69	69	



TEST NUMBER: P213064

CATALOG NUMBER: DSI-WD-30L840-1D-UNV-4-STD-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.7	625.7	625.7	625.7	625.7
2.5°	627.2	627.2	622.6	625.7	625.7
5°	625.7	625.7	622.6	624.2	624.2
7.5°	624.2	624.2	622.6	625.7	625.7
10°	621.1	621.1	619.6	624.2	625.7
12.5°	616.5	616.5	618.0	624.2	625.7
15°	611.9	613.4	614.9	624.2	625.7
17.5°	605.7	607.3	613.4	622.6	625.7
20°	598.0	601.1	607.3	619.6	624.2
22.5°	588.8	593.4	602.7	616.5	621.1
25°	579.6	585.7	598.0	613.4	618.0
27.5°	570.4	576.5	590.4	608.8	614.9
30°	558.1	565.8	582.7	601.1	607.3
32.5°	545.8	555.0	573.4	593.4	601.1
35°	531.9	542.7	562.7	584.2	591.9
37.5°	516.6	528.9	550.4	573.4	581.1
40°	502.7	513.5	538.1	562.7	571.9
42.5°	484.3	498.1	522.7	547.3	558.1
45°	467.4	481.2	505.8	533.5	544.2
47.5°	447.4	462.7	488.9	516.6	524.2
50°	427.4	442.8	468.9	495.0	505.8
52.5°	405.9	421.2	450.5	473.5	481.2
55°	382.8	399.7	427.4	448.9	458.1
57.5°	359.7	376.7	402.8	422.8	430.5
60°	335.1	350.5	376.7	395.1	404.3
62.5°	310.5	324.4	345.9	365.9	375.1
65°	282.9	298.3	316.7	333.6	339.8
67.5°	255.2	269.0	286.0	299.8	305.9
70°	227.5	239.8	252.1	266.0	270.6
72.5°	196.8	209.1	221.4	229.1	235.2
75°	167.6	178.3	187.6	193.7	201.4
77.5°	138.4	146.1	152.2	164.5	169.1
80°	106.1	112.2	118.4	130.7	135.3
82.5°	72.3	76.9	86.1	96.9	101.5
85°	38.4	46.1	60.0	69.2	70.7
87.5°	15.4	26.1	40.0	49.2	53.8
90°	3.1	29.2	50.7	61.5	66.1
92.5°	26.1	49.2	69.2	79.9	83.0
95°	58.4	69.2	93.8	110.7	116.8
97.5°	84.6	87.6	113.8	132.2	138.4
100°	107.6	98.4	127.6	150.7	156.8
102.5°	127.6	113.8	138.4	161.4	170.6
105°	141.4	127.6	143.0	169.1	179.9
107.5°	155.3	143.0	143.0	175.3	186.0
110°	169.1	156.8	150.7	175.3	190.6



TEST NUMBER: P213064

CATALOG NUMBER: DSI-WD-30L840-1D-UNV-4-STD-W

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	178.3	169.1	167.6	170.6	182.9
115°	186.0	178.3	179.9	176.8	178.3
117.5°	192.2	186.0	189.1	213.7	204.5
120°	193.7	190.6	195.2	235.2	242.9
122.5°	192.2	192.2	198.3	242.9	264.4
125°	186.0	189.1	196.8	242.9	270.6
127.5°	176.8	181.4	193.7	236.8	264.4
130°	166.0	172.2	186.0	224.5	252.1
132.5°	150.7	161.4	175.3	210.6	233.7
135°	136.8	149.1	163.0	193.7	212.2
137.5°	124.5	136.8	150.7	176.8	193.7
140°	112.2	124.5	138.4	159.9	173.7
142.5°	101.5	115.3	127.6	144.5	155.3
145°	93.8	106.1	116.8	132.2	138.4
147.5°	87.6	98.4	107.6	123.0	127.6
150°	83.0	92.2	103.0	113.8	119.9
152.5°	78.4	87.6	98.4	104.5	109.2
155°	76.9	84.6	95.3	98.4	99.9
157.5°	73.8	81.5	90.7	95.3	95.3
160°	73.8	78.4	87.6	92.2	92.2
162.5°	72.3	76.9	83.0	89.2	90.7
165°	72.3	75.3	79.9	84.6	84.6
167.5°	70.7	73.8	76.9	79.9	79.9
170°	70.7	72.3	75.3	76.9	76.9
172.5°	70.7	72.3	73.8	73.8	73.8
175°	70.7	70.7	72.3	72.3	70.7
177.5°	69.2	70.7	70.7	70.7	69.2
180°	69.2	69.2	69.2	69.2	69.2

(END OF REPORT)