

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: P213070

Luminaire Tested: **DSI-WD-50L830-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213070  
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-50L830-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH DUST COVER, LIGHT LEVEL 4.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4873.5 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

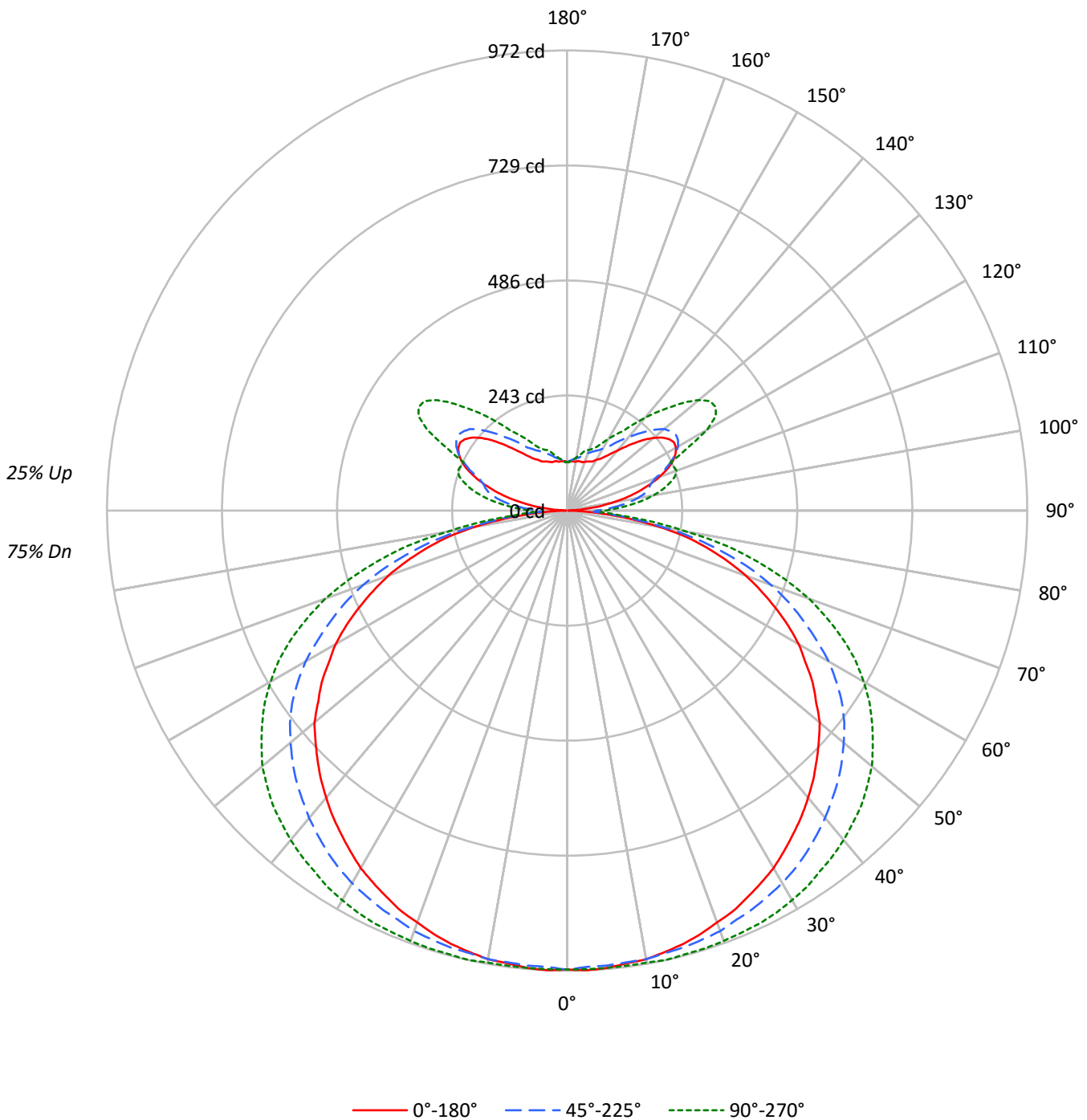
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3267	3267	3267
5°	3279	3263	3279
10°	3292	3292	3317
15°	3306	3331	3382
20°	3319	3389	3468
25°	3351	3451	3577
30°	3393	3535	3696
35°	3427	3627	3828
40°	3482	3729	3997
45°	3552	3854	4191
50°	3652	3997	4405
55°	3720	4165	4622
60°	3808	4301	4876
65°	3865	4389	5127
70°	3960	4512	5352
75°	3996	4472	5422
80°	3829	4112	5010
85°	2826	3673	4237



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	1.9
10°-20°	271.0	5.6
20°-30°	429.8	8.8
30°-40°	553.0	11.3
40°-50°	626.7	12.9
50°-60°	633.7	13.0
60°-70°	553.6	11.4
70°-80°	372.7	7.6
80°-90°	119.1	2.4
90°-100°	107.7	2.2
100°-110°	191.9	3.9
110°-120°	244.5	5.0
120°-130°	266.7	5.5
130°-140°	192.1	3.9
140°-150°	111.4	2.3
150°-160°	63.3	1.3
160°-170°	33.8	0.7
170°-180°	10.3	0.2
0°-30°	793.1	16.3
0°-40°	1346.1	27.6
0°-60°	2606.4	53.5
0°-90°	3651.8	74.9
90°-120°	544.0	11.2
90°-150°	1114.3	22.9
90°-180°	1222.0	25.1
0°-180°	4873.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	970	970	970	970	970	
5°	970	970	965	970	970	92
15°	948	950	955	967	970	268
25°	901	911	928	952	962	416
35°	833	848	882	916	930	522
45°	745	767	809	860	879	576
55°	633	660	709	760	787	565
65°	485	516	550	614	643	480
75°	307	326	344	395	416	322
85°	73	78	95	107	110	86
90°	2	36	61	78	80	6
95°	36	76	107	127	132	43
105°	156	154	178	212	224	164
115°	246	236	241	246	241	240
125°	263	263	280	346	382	233
135°	202	214	236	283	309	157
145°	139	156	173	195	205	89
155°	114	124	139	144	149	53
165°	107	112	119	124	127	30
175°	105	105	107	107	107	10
180°	102	102	102	102	102	



TEST NUMBER: P213070

CATALOG NUMBER: DSI-WD-50L830-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	969.5	969.5	969.5	969.5	969.5
2.5°	971.9	969.5	964.6	969.5	969.5
5°	969.5	969.5	964.6	969.5	969.5
7.5°	964.6	967.1	962.2	969.5	969.5
10°	962.2	962.2	962.2	969.5	969.5
12.5°	954.9	957.3	957.3	967.1	971.9
15°	947.6	950.0	954.9	967.1	969.5
17.5°	937.8	942.7	950.0	964.6	969.5
20°	925.7	933.0	945.2	962.2	967.1
22.5°	915.9	923.2	935.4	957.3	964.6
25°	901.3	911.0	928.1	952.5	962.2
27.5°	886.7	896.4	918.4	945.2	957.3
30°	872.1	884.3	908.6	937.8	950.0
32.5°	852.6	867.2	896.4	928.1	942.7
35°	833.1	847.7	881.8	915.9	930.5
37.5°	813.6	830.7	864.8	903.7	920.8
40°	791.7	808.7	847.7	891.6	908.6
42.5°	769.8	789.2	828.2	874.5	894.0
45°	745.4	767.3	808.7	859.9	879.4
47.5°	721.0	743.0	786.8	840.4	859.9
50°	696.7	718.6	762.5	816.0	840.4
52.5°	662.6	689.4	738.1	789.2	813.6
55°	633.3	660.1	708.9	760.0	786.8
57.5°	596.8	628.5	674.8	728.4	757.6
60°	565.1	591.9	638.2	694.2	723.5
62.5°	526.2	555.4	594.4	655.3	686.9
65°	484.8	516.4	550.5	613.9	643.1
67.5°	443.3	472.6	506.7	565.1	594.4
70°	401.9	428.7	458.0	516.4	543.2
72.5°	355.6	380.0	404.4	458.0	482.3
75°	306.9	326.4	343.5	394.6	416.5
77.5°	258.2	268.0	282.6	326.4	345.9
80°	197.3	204.6	211.9	248.5	258.2
82.5°	134.0	138.8	148.6	170.5	180.3
85°	73.1	78.0	95.0	107.2	109.6
87.5°	24.4	39.0	56.0	65.8	70.6
90°	2.4	36.5	60.9	78.0	80.4
92.5°	12.2	56.0	82.8	97.4	102.3
95°	36.5	75.5	107.2	126.7	131.5
97.5°	68.2	95.0	131.5	153.5	160.8
100°	97.4	112.1	151.0	177.8	185.1
102.5°	129.1	129.1	168.1	197.3	207.1
105°	155.9	153.5	177.8	211.9	224.1
107.5°	182.7	175.4	185.1	224.1	238.7
110°	207.1	197.3	197.3	226.5	246.0



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CATALOG NUMBER: DSI-WD-50L830-1D-UNV-4-STD-DC-W

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	229.0	216.8	221.7	226.5	243.6
115°	246.0	236.3	241.2	246.0	241.2
117.5°	258.2	250.9	258.2	294.8	287.4
120°	265.5	260.6	270.4	326.4	341.0
122.5°	268.0	265.5	277.7	341.0	372.7
125°	263.1	263.1	280.1	345.9	382.4
127.5°	253.3	258.2	275.3	338.6	380.0
130°	238.7	246.0	268.0	324.0	363.0
132.5°	221.7	231.4	253.3	304.5	338.6
135°	202.2	214.4	236.3	282.6	309.4
137.5°	182.7	197.3	219.2	258.2	282.6
140°	165.6	182.7	202.2	236.3	255.8
142.5°	151.0	168.1	187.6	214.4	229.0
145°	138.8	155.9	173.0	194.9	204.6
147.5°	129.1	146.2	158.3	182.7	190.0
150°	124.2	136.4	151.0	168.1	175.4
152.5°	116.9	129.1	143.7	153.5	160.8
155°	114.5	124.2	138.8	143.7	148.6
157.5°	112.1	119.4	134.0	138.8	141.3
160°	109.6	116.9	129.1	136.4	136.4
162.5°	107.2	114.5	124.2	131.5	134.0
165°	107.2	112.1	119.4	124.2	126.7
167.5°	107.2	109.6	114.5	119.4	119.4
170°	104.7	107.2	112.1	114.5	114.5
172.5°	104.7	107.2	109.6	112.1	109.6
175°	104.7	104.7	107.2	107.2	107.2
177.5°	104.7	104.7	104.7	104.7	102.3
180°	102.3	102.3	102.3	102.3	102.3

(END OF REPORT)