

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: P213084

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213084  
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-50L830-1D-UNV-4-STD-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 4.  
Light Source: (308) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4873.7 lumens  
Efficiency: N/A  
Efficacy: 128.9 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

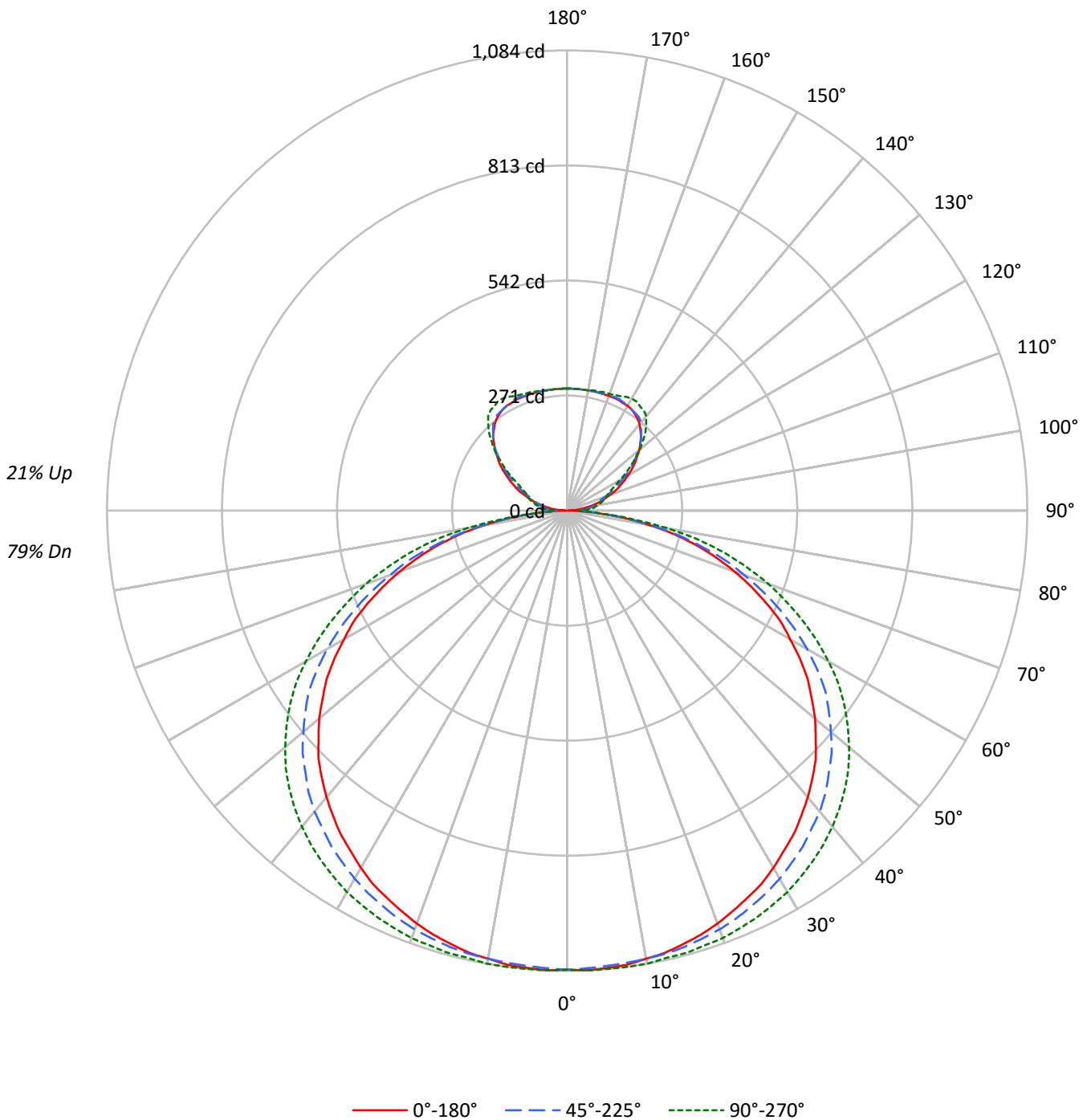
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3645	3645	3645
5°	3658	3642	3667
10°	3667	3667	3709
15°	3688	3713	3764
20°	3712	3765	3843
25°	3740	3822	3931
30°	3782	3896	4038
35°	3828	3978	4148
40°	3879	4072	4275
45°	3947	4156	4411
50°	3997	4252	4546
55°	4064	4365	4680
60°	4088	4399	4794
65°	4137	4409	4875
70°	4128	4367	4967
75°	4091	4282	4978
80°	3829	3875	4632
85°	2826	3016	3108



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.1	2.1
10°-20°	301.8	6.2
20°-30°	475.9	9.8
30°-40°	606.4	12.4
40°-50°	675.3	13.9
50°-60°	662.3	13.6
60°-70°	553.3	11.4
70°-80°	356.5	7.3
80°-90°	100.1	2.1
90°-100°	48.4	1.0
100°-110°	85.1	1.7
110°-120°	124.6	2.6
120°-130°	167.5	3.4
130°-140°	191.5	3.9
140°-150°	178.3	3.7
150°-160°	134.4	2.8
160°-170°	81.8	1.7
170°-180°	27.4	0.6
0°-30°	880.8	18.1
0°-40°	1487.2	30.5
0°-60°	2824.7	58.0
0°-90°	3834.6	78.7
90°-120°	258.1	5.3
90°-150°	795.4	16.3
90°-180°	1039.0	21.3
0°-180°	4873.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1082	1082	1077	1084	1084	103
15°	1057	1062	1064	1074	1079	299
25°	1006	1013	1028	1050	1057	465
35°	930	940	967	996	1008	582
45°	828	840	872	911	926	638
55°	692	706	743	777	797	616
65°	519	531	553	594	611	512
75°	314	319	329	365	382	329
85°	73	76	78	83	80	87
90°	2	17	24	29	29	6
95°	24	36	49	56	61	26
105°	80	76	76	85	88	84
115°	136	134	124	117	114	136
125°	195	190	188	183	183	174
135°	246	241	246	256	261	189
145°	278	275	280	295	300	174
155°	287	287	290	295	297	133
165°	287	287	287	290	290	81
175°	287	287	287	287	287	27
180°	287	287	287	287	287	



TEST NUMBER: P213084

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1081.6	1081.6	1081.6	1081.6	1081.6
2.5°	1084.0	1084.0	1079.1	1084.0	1084.0
5°	1081.6	1081.6	1076.7	1084.0	1084.0
7.5°	1079.1	1079.1	1074.3	1084.0	1084.0
10°	1071.8	1074.3	1071.8	1081.6	1084.0
12.5°	1066.9	1069.4	1069.4	1079.1	1079.1
15°	1057.2	1062.1	1064.5	1074.3	1079.1
17.5°	1047.5	1052.3	1057.2	1069.4	1074.3
20°	1035.3	1040.2	1049.9	1064.5	1071.8
22.5°	1020.7	1028.0	1040.2	1057.2	1064.5
25°	1006.0	1013.4	1028.0	1049.9	1057.2
27.5°	991.4	998.7	1015.8	1037.7	1047.5
30°	971.9	981.7	1001.2	1025.5	1037.7
32.5°	950.0	962.2	984.1	1010.9	1023.1
35°	930.5	940.3	967.1	996.3	1008.5
37.5°	906.2	918.4	945.1	979.3	991.4
40°	881.8	896.4	925.7	957.3	971.9
42.5°	855.0	867.2	901.3	935.4	950.0
45°	828.2	840.4	872.1	911.0	925.7
47.5°	794.1	811.2	845.3	884.3	898.9
50°	762.5	777.1	811.2	852.6	867.2
52.5°	725.9	745.4	777.1	816.0	833.1
55°	691.8	706.4	743.0	777.1	796.6
57.5°	650.4	667.5	699.1	735.7	757.6
60°	606.6	623.6	652.8	689.4	711.3
62.5°	567.6	577.3	604.1	643.1	662.6
65°	518.9	531.0	553.0	594.4	611.4
67.5°	470.1	479.9	499.4	540.8	557.8
70°	419.0	428.7	443.3	484.8	504.2
72.5°	367.8	375.1	392.2	426.3	443.3
75°	314.2	319.1	328.9	365.4	382.4
77.5°	258.2	258.2	268.0	299.6	316.7
80°	197.3	197.3	199.7	229.0	238.7
82.5°	136.4	131.5	136.4	153.5	155.9
85°	73.1	75.5	78.0	82.8	80.4
87.5°	26.8	31.7	34.1	31.7	31.7
90°	2.4	17.1	24.4	29.2	29.2
92.5°	12.2	29.2	41.4	43.8	46.3
95°	24.4	36.5	48.7	56.0	60.9
97.5°	39.0	41.4	56.0	65.8	65.8
100°	51.2	51.2	63.3	73.1	73.1
102.5°	65.8	63.3	70.6	78.0	80.4
105°	80.4	75.5	75.5	85.3	87.7
107.5°	92.6	90.1	82.8	92.6	95.0
110°	107.2	104.7	95.0	97.4	99.9



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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	124.2	119.4	109.6	104.7	104.7
115°	136.4	134.0	124.2	116.9	114.5
117.5°	151.0	146.2	138.8	131.5	126.7
120°	165.6	160.8	153.5	148.6	143.7
122.5°	180.3	177.8	170.5	165.6	163.2
125°	194.9	190.0	187.6	182.7	182.7
127.5°	207.1	204.6	202.2	202.2	202.2
130°	221.7	216.8	219.2	219.2	224.1
132.5°	233.9	229.0	233.9	238.7	241.2
135°	246.0	241.2	246.0	255.8	260.6
137.5°	255.8	253.3	258.2	270.4	275.3
140°	265.5	263.1	270.4	282.6	289.9
142.5°	272.8	270.4	277.7	289.9	297.2
145°	277.7	275.3	280.1	294.8	299.6
147.5°	282.6	280.1	282.6	299.6	304.5
150°	285.0	285.0	285.0	299.6	304.5
152.5°	285.0	285.0	287.4	294.8	302.1
155°	287.4	287.4	289.9	294.8	297.2
157.5°	287.4	287.4	289.9	292.3	294.8
160°	287.4	287.4	287.4	292.3	292.3
162.5°	287.4	287.4	287.4	289.9	292.3
165°	287.4	287.4	287.4	289.9	289.9
167.5°	287.4	287.4	287.4	289.9	289.9
170°	287.4	287.4	287.4	287.4	287.4
172.5°	287.4	287.4	287.4	287.4	287.4
175°	287.4	287.4	287.4	287.4	287.4
177.5°	287.4	287.4	287.4	287.4	287.4
180°	287.4	287.4	287.4	287.4	287.4

(END OF REPORT)