

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: P213014

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213014  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35729)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: DSI-WS-50L830-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR 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: 4738.8 lumens  
Efficiency: N/A  
Efficacy: 125.4 lumens/watt  
Spacing Criteria (0/90/45): 1.42 / 1.49 / 1.57  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

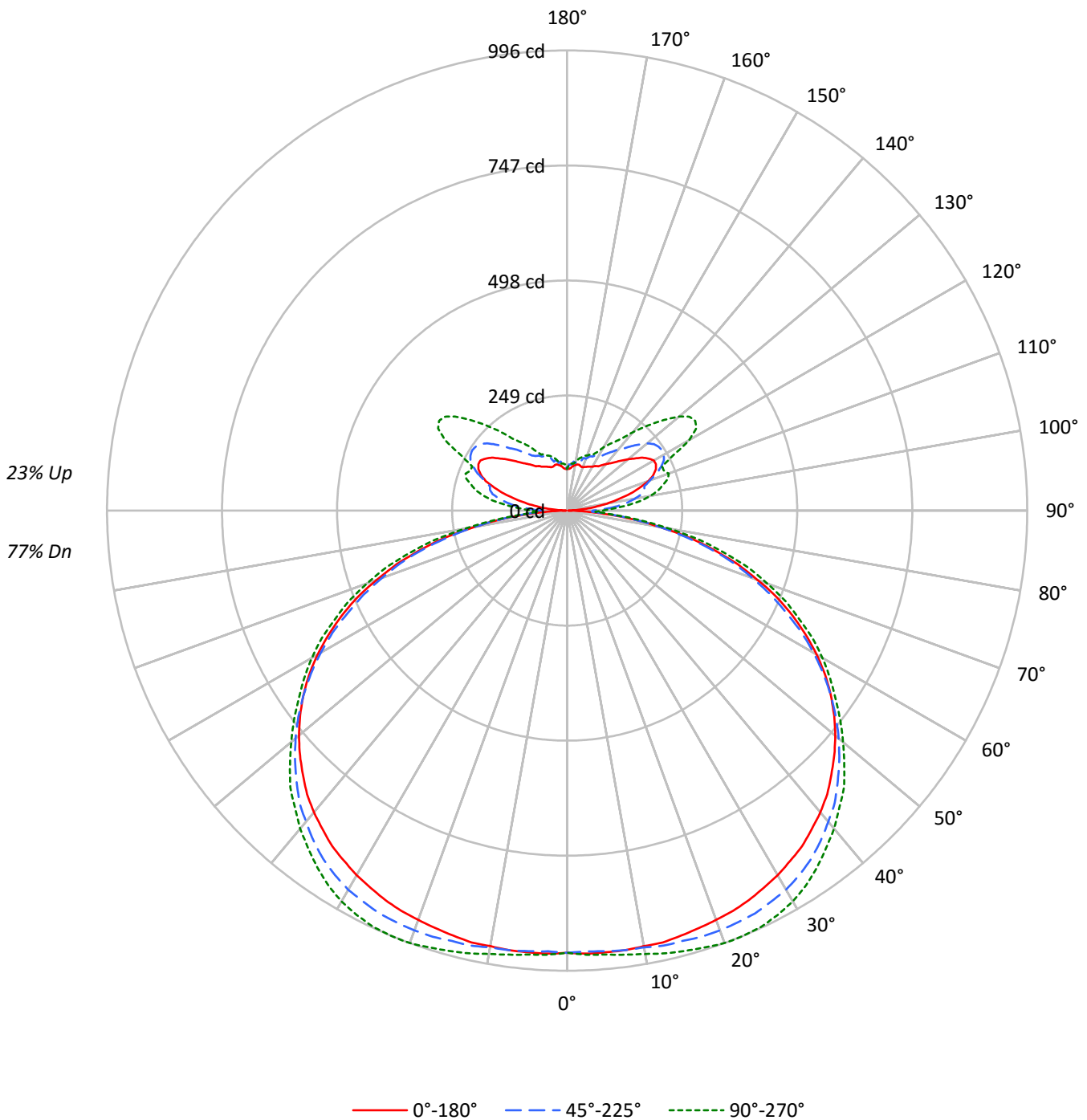
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	50	30	10	0	
RCR																						
0	114	114	114	114	108	108	108	108	98	98	98	89	89	89	81	81	81	77				77
1	103	98	93	89	98	93	89	85	85	81	78	77	74	72	70	68	66				62	
2	93	84	77	71	88	80	74	68	73	68	63	66	62	59	60	57	54				50	
3	84	73	65	58	79	70	62	56	63	57	52	58	53	48	52	48	45				42	
4	76	64	55	48	72	61	53	47	56	49	44	51	45	41	46	42	38				35	
5	70	57	48	41	66	54	46	40	50	43	37	45	39	35	41	36	32				30	
6	64	51	42	35	61	49	40	34	45	37	32	41	35	30	37	32	28				26	
7	59	46	37	31	56	44	36	30	40	33	28	37	31	26	34	29	25				22	
8	55	41	33	27	52	40	32	26	37	30	25	34	28	23	31	26	22				20	
9	51	38	30	24	49	36	29	23	33	27	22	31	25	21	28	23	20				18	
10	48	35	27	22	45	33	26	21	31	24	20	28	23	19	26	21	18				16	

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

	0°	45°	90°
0°	3226	3226	3226
5°	3246	3238	3263
10°	3275	3284	3334
15°	3323	3365	3442
20°	3380	3468	3573
25°	3460	3577	3695
30°	3545	3687	3801
35°	3647	3788	3878
40°	3750	3868	3954
45°	3854	3947	4040
50°	3971	4022	4086
55°	4093	4093	4165
60°	4203	4153	4301
65°	4292	4176	4409
70°	4320	4200	4536
75°	4282	4186	4567
80°	3924	3924	4349
85°	3108	3580	3766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.8	1.9
10°-20°	274.5	5.8
20°-30°	444.4	9.4
30°-40°	574.5	12.1
40°-50°	639.3	13.5
50°-60°	626.6	13.2
60°-70°	532.0	11.2
70°-80°	348.9	7.4
80°-90°	113.8	2.4
90°-100°	106.1	2.2
100°-110°	182.9	3.9
110°-120°	220.8	4.7
120°-130°	226.5	4.8
130°-140°	159.4	3.4
140°-150°	97.0	2.0
150°-160°	58.5	1.2
160°-170°	32.0	0.7
170°-180°	9.7	0.2
0°-30°	810.7	17.1
0°-40°	1385.2	29.2
0°-60°	2651.2	55.9
0°-90°	3645.8	76.9
90°-120°	509.8	10.8
90°-150°	992.7	20.9
90°-180°	1093.0	23.1
0°-180°	4738.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	957	957	957	957	957	
5°	960	960	957	965	965	92
15°	952	957	965	982	987	270
25°	930	940	962	987	994	430
35°	887	899	921	938	943	555
45°	809	818	828	840	848	625
55°	697	697	697	706	709	622
65°	538	534	524	550	553	531
75°	329	322	322	351	351	345
85°	80	83	93	100	97	93
90°	2	34	56	71	76	7
95°	36	78	110	127	129	40
105°	141	141	173	207	214	147
115°	212	205	224	229	226	207
125°	200	210	241	307	339	177
135°	149	168	197	244	268	117
145°	117	134	151	173	183	75
155°	105	117	129	134	134	49
165°	102	107	110	117	119	29
175°	93	102	100	102	102	9
180°	90	90	90	90	90	



TEST NUMBER: P213014

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	957.3	957.3	957.3	957.3	957.3
2.5°	959.8	959.8	954.9	959.8	962.2
5°	959.8	959.8	957.3	964.6	964.6
7.5°	959.8	959.8	959.8	967.1	969.5
10°	957.3	959.8	959.8	971.9	974.4
12.5°	957.3	959.8	964.6	976.8	981.7
15°	952.5	957.3	964.6	981.7	986.6
17.5°	947.6	954.9	967.1	986.6	991.4
20°	942.7	952.5	967.1	989.0	996.3
22.5°	937.8	947.6	964.6	989.0	996.3
25°	930.5	940.3	962.2	986.6	993.9
27.5°	920.8	933.0	954.9	979.3	986.6
30°	911.0	925.7	947.6	969.5	976.8
32.5°	898.9	913.5	935.4	957.3	962.2
35°	886.7	898.9	920.8	937.8	942.7
37.5°	869.6	879.4	901.3	918.4	920.8
40°	852.6	862.3	879.4	896.4	898.9
42.5°	833.1	840.4	857.5	869.6	872.1
45°	808.7	818.5	828.2	840.4	847.7
47.5°	784.4	791.7	799.0	811.2	813.6
50°	757.6	762.5	767.3	779.5	779.5
52.5°	728.4	733.2	733.2	743.0	745.4
55°	696.7	696.7	696.7	706.4	708.9
57.5°	662.6	662.6	657.7	669.9	674.8
60°	623.6	623.6	616.3	630.9	638.2
62.5°	582.2	579.8	572.5	589.5	599.2
65°	538.3	533.5	523.7	550.5	553.0
67.5°	492.1	487.2	477.4	504.2	511.6
70°	438.5	438.5	426.3	458.0	460.4
72.5°	387.3	380.0	377.6	404.4	411.7
75°	328.9	321.5	321.5	350.8	350.8
77.5°	270.4	260.6	260.6	287.4	294.8
80°	202.2	199.7	202.2	221.7	224.1
82.5°	143.7	136.4	143.7	155.9	158.3
85°	80.4	82.8	92.6	99.9	97.4
87.5°	31.7	43.8	53.6	58.5	60.9
90°	2.4	34.1	56.0	70.6	75.5
92.5°	14.6	56.0	80.4	95.0	99.9
95°	36.5	78.0	109.6	126.7	129.1
97.5°	60.9	92.6	131.5	153.5	160.8
100°	87.7	107.2	148.6	175.4	182.7
102.5°	114.5	124.2	165.6	192.4	202.2
105°	141.3	141.3	173.0	207.1	214.4
107.5°	165.6	160.8	175.4	216.8	229.0
110°	187.6	177.8	190.0	214.4	233.9



TEST NUMBER: P213014

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

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	202.2	192.4	209.5	214.4	226.5
115°	211.9	204.6	224.1	229.0	226.5
117.5°	216.8	211.9	236.3	268.0	258.2
120°	216.8	216.8	241.2	294.8	304.5
122.5°	209.5	216.8	243.6	306.9	331.3
125°	199.7	209.5	241.2	306.9	338.6
127.5°	185.1	199.7	236.3	297.2	333.7
130°	173.0	190.0	226.5	282.6	316.7
132.5°	160.8	180.3	211.9	263.1	292.3
135°	148.6	168.1	197.3	243.6	268.0
137.5°	138.8	158.3	182.7	224.1	243.6
140°	131.5	153.5	173.0	202.2	221.7
142.5°	124.2	143.7	160.8	185.1	197.3
145°	116.9	134.0	151.0	173.0	182.7
147.5°	114.5	131.5	141.3	160.8	170.5
150°	109.6	124.2	136.4	151.0	158.3
152.5°	107.2	119.4	134.0	141.3	143.7
155°	104.7	116.9	129.1	134.0	134.0
157.5°	102.3	116.9	126.7	126.7	131.5
160°	99.9	109.6	119.4	129.1	126.7
162.5°	99.9	107.2	119.4	124.2	124.2
165°	102.3	107.2	109.6	116.9	119.4
167.5°	102.3	107.2	112.1	112.1	114.5
170°	99.9	102.3	104.7	112.1	107.2
172.5°	97.4	102.3	107.2	104.7	102.3
175°	92.6	102.3	99.9	102.3	102.3
177.5°	90.1	92.6	99.9	102.3	99.9
180°	90.1	90.1	90.1	90.1	90.1

(END OF REPORT)