

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: P213028

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213028  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35730)  
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-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR 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: 4743.4 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Spacing Criteria (0/90/45): 1.41 / 1.45 / 1.53  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Semi-Direct

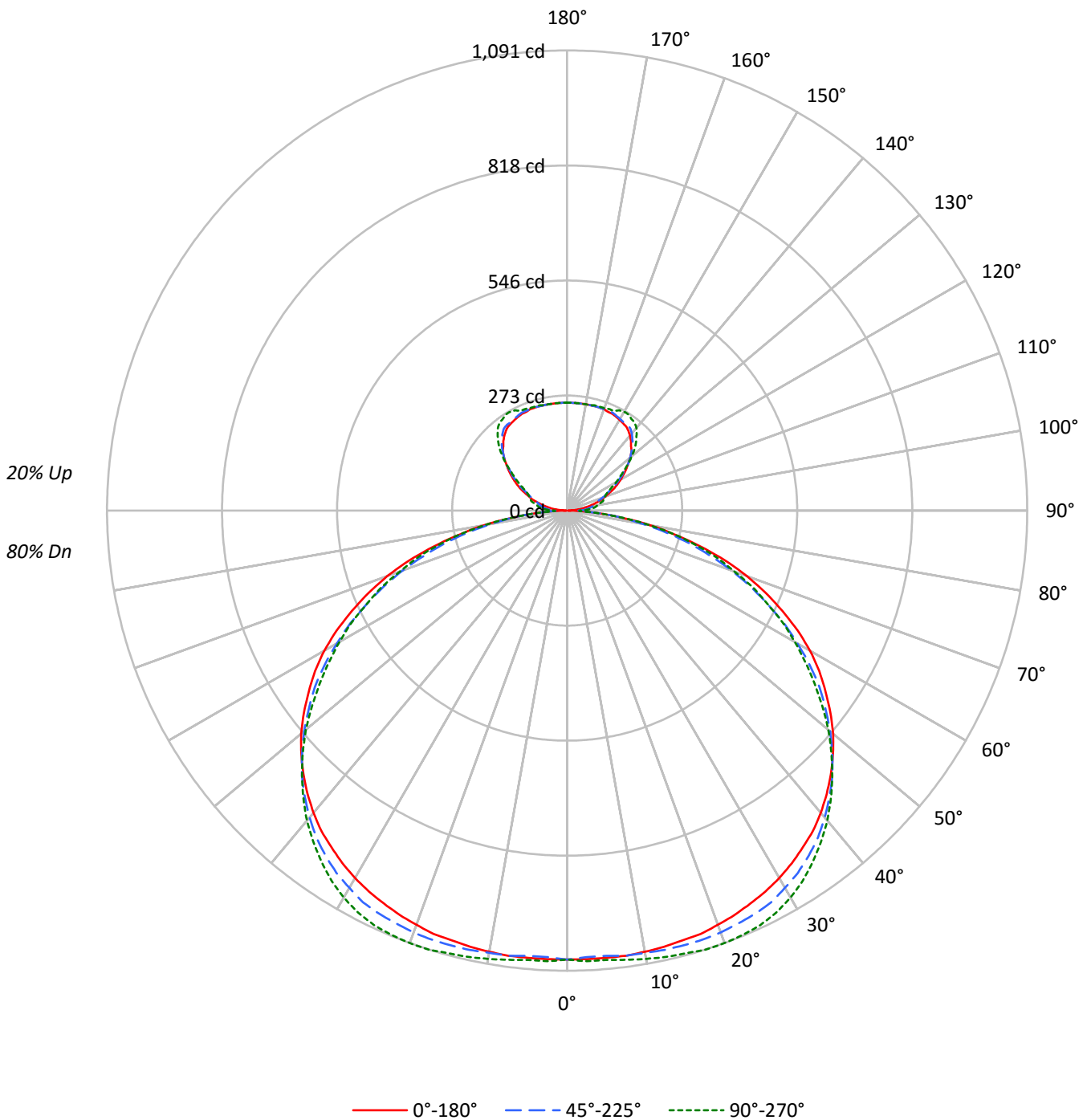
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	100	100		92	92	92		84	84	84	80
1	104	99	94	90	99	95	91	87	87	84	81		80	77	75		73	71	69	66
2	94	85	78	73	89	82	76	70	75	70	66		69	65	61		63	60	57	54
3	85	74	66	60	81	71	64	58	66	59	54		60	55	51		55	51	48	45
4	78	65	57	50	74	63	55	48	58	51	46		53	48	43		49	44	40	38
5	71	58	49	42	67	56	47	41	51	44	39		47	41	37		44	39	35	32
6	65	52	43	37	62	50	42	36	46	39	34		43	37	32		39	34	30	28
7	60	47	38	32	57	45	37	31	42	35	30		39	33	28		36	31	27	24
8	56	43	34	28	53	41	33	28	38	31	26		35	29	25		33	27	24	21
9	52	39	31	25	50	37	30	25	35	28	23		32	26	22		30	25	21	19
10	49	36	28	23	47	34	27	22	32	26	21		30	24	20		28	23	19	17

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

	0°	45°	90°
0°	3587	3587	3587
5°	3601	3584	3617
10°	3634	3642	3692
15°	3680	3722	3790
20°	3747	3817	3913
25°	3822	3922	4030
30°	3915	4018	4123
35°	4008	4108	4178
40°	4115	4179	4222
45°	4214	4237	4237
50°	4316	4265	4239
55°	4393	4293	4207
60°	4482	4252	4203
65°	4486	4176	4176
70°	4464	4080	4152
75°	4249	3901	4123
80°	3875	3545	3829
85°	3016	3016	2826



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.8	2.1
10°-20°	303.2	6.4
20°-30°	487.4	10.3
30°-40°	624.3	13.2
40°-50°	685.2	14.4
50°-60°	653.4	13.8
60°-70°	530.0	11.2
70°-80°	328.4	6.9
80°-90°	94.6	2.0
90°-100°	48.3	1.0
100°-110°	80.9	1.7
110°-120°	113.5	2.4
120°-130°	149.8	3.2
130°-140°	169.7	3.6
140°-150°	157.1	3.3
150°-160°	118.6	2.5
160°-170°	72.7	1.5
170°-180°	24.4	0.5
0°-30°	892.5	18.8
0°-40°	1516.8	32.0
0°-60°	2855.4	60.2
0°-90°	3808.4	80.3
90°-120°	242.7	5.1
90°-150°	719.3	15.2
90°-180°	935.0	19.7
0°-180°	4743.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1064	1064	1060	1069	1069	102
15°	1055	1060	1067	1082	1086	299
25°	1028	1038	1055	1077	1084	475
35°	974	984	999	1011	1016	611
45°	884	889	889	892	889	682
55°	748	743	731	721	716	669
65°	563	550	524	526	524	556
75°	326	312	300	314	317	344
85°	78	76	78	78	73	89
90°	2	17	24	29	29	7
95°	22	36	49	58	61	23
105°	71	71	73	85	88	75
115°	122	119	112	107	107	120
125°	170	168	166	166	163	153
135°	214	212	219	229	231	166
145°	244	241	248	261	266	152
155°	253	253	256	258	261	117
165°	256	256	256	258	258	73
175°	256	256	256	256	256	24
180°	256	256	256	256	256	



TEST NUMBER: P213028

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1064.5	1064.5	1064.5	1064.5	1064.5
2.5°	1064.5	1064.5	1059.6	1066.9	1069.4
5°	1064.5	1064.5	1059.6	1069.4	1069.4
7.5°	1064.5	1064.5	1064.5	1071.8	1074.3
10°	1062.1	1064.5	1064.5	1076.7	1079.1
12.5°	1059.6	1064.5	1066.9	1079.1	1084.0
15°	1054.8	1059.6	1066.9	1081.6	1086.4
17.5°	1052.3	1057.2	1066.9	1086.4	1091.3
20°	1045.0	1052.3	1064.5	1084.0	1091.3
22.5°	1037.7	1045.0	1059.6	1081.6	1088.9
25°	1028.0	1037.7	1054.8	1076.7	1084.0
27.5°	1018.2	1028.0	1047.5	1066.9	1074.3
30°	1006.1	1015.8	1032.8	1052.3	1059.6
32.5°	991.4	1001.2	1018.2	1035.3	1040.2
35°	974.4	984.1	998.7	1010.9	1015.8
37.5°	957.3	964.6	976.8	986.6	989.0
40°	935.4	942.7	950.0	957.3	959.8
42.5°	911.0	918.4	920.8	925.7	925.7
45°	884.3	889.1	889.1	891.6	889.1
47.5°	855.0	857.5	852.6	852.6	850.1
50°	823.4	823.4	813.6	811.2	808.7
52.5°	786.8	784.4	772.2	767.3	762.5
55°	747.8	743.0	730.8	721.0	716.2
57.5°	708.9	701.6	682.1	672.3	669.9
60°	665.0	655.3	630.9	623.6	623.6
62.5°	616.3	604.1	579.8	574.9	577.3
65°	562.7	550.5	523.7	526.2	523.7
67.5°	509.1	494.5	470.1	475.0	477.4
70°	453.1	438.5	414.1	421.4	421.4
72.5°	392.2	375.1	355.6	370.3	372.7
75°	326.4	311.8	299.6	314.2	316.7
77.5°	260.6	250.9	241.2	258.2	260.6
80°	199.7	187.6	182.7	197.3	197.3
82.5°	131.5	129.1	131.5	138.8	136.4
85°	78.0	75.5	78.0	78.0	73.1
87.5°	34.1	34.1	31.7	26.8	29.2
90°	2.4	17.1	24.4	29.2	29.2
92.5°	12.2	29.2	41.4	46.3	46.3
95°	21.9	36.5	48.7	58.5	60.9
97.5°	34.1	41.4	56.0	65.8	68.2
100°	46.3	46.3	63.3	70.6	73.1
102.5°	58.5	58.5	68.2	78.0	80.4
105°	70.6	70.6	73.1	85.3	87.7
107.5°	85.3	82.8	78.0	87.7	92.6
110°	95.0	95.0	90.1	92.6	95.0



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	107.2	107.2	99.9	97.4	99.9
115°	121.8	119.4	112.1	107.2	107.2
117.5°	134.0	131.5	126.7	121.8	119.4
120°	146.2	143.7	138.8	136.4	134.0
122.5°	158.3	158.3	153.5	151.0	148.6
125°	170.5	168.1	165.6	165.6	163.2
127.5°	182.7	180.3	182.7	182.7	182.7
130°	194.9	190.0	194.9	197.3	199.7
132.5°	207.1	202.2	207.1	214.4	216.8
135°	214.4	211.9	219.2	229.0	231.4
137.5°	224.1	221.7	229.0	241.2	243.6
140°	231.4	231.4	238.7	250.9	255.8
142.5°	238.7	236.3	246.0	255.8	263.1
145°	243.6	241.2	248.5	260.6	265.5
147.5°	246.0	246.0	248.5	265.5	270.4
150°	248.5	248.5	250.9	265.5	270.4
152.5°	250.9	250.9	253.3	260.6	268.0
155°	253.3	253.3	255.8	258.2	260.6
157.5°	253.3	253.3	255.8	258.2	260.6
160°	255.8	255.8	255.8	258.2	258.2
162.5°	255.8	255.8	255.8	258.2	258.2
165°	255.8	255.8	255.8	258.2	258.2
167.5°	255.8	255.8	255.8	255.8	255.8
170°	255.8	255.8	255.8	255.8	255.8
172.5°	255.8	255.8	255.8	255.8	255.8
175°	255.8	255.8	255.8	255.8	255.8
177.5°	255.8	255.8	255.8	255.8	255.8
180°	255.8	255.8	255.8	255.8	255.8

(END OF REPORT)