

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: P213089

Luminaire Tested: **DSI-WD-50L835-1D-UNV-4-STD-FC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213089  
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-50L835-1D-UNV-4-STD-FC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream DIFFUSE OPTIC WITH FROSTED COVER, LIGHT LEVEL 4.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5104.7 lumens  
Efficiency: N/A  
Efficacy: 135.0 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

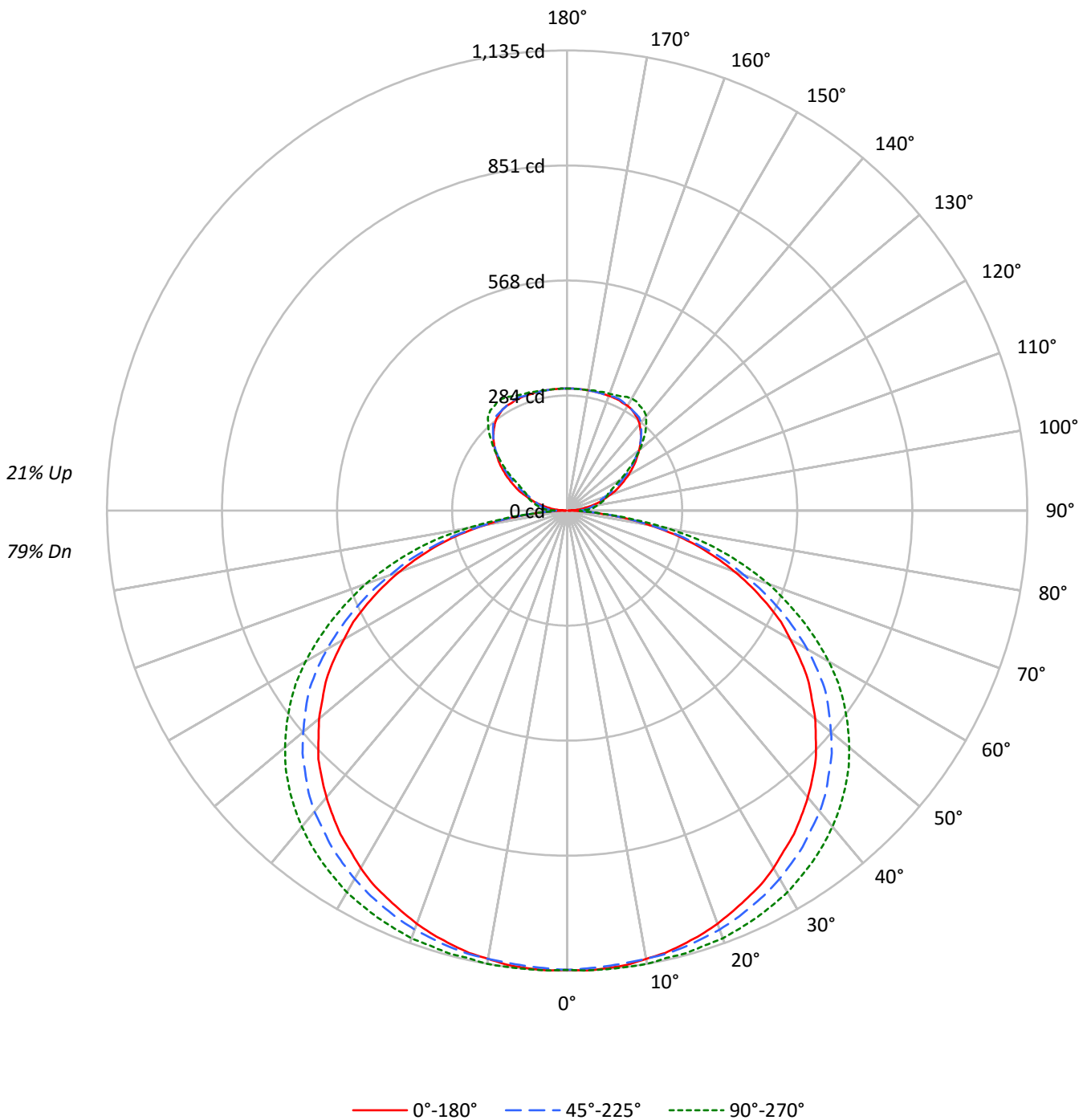
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3817	3817	3817
5°	3832	3814	3840
10°	3841	3841	3885
15°	3863	3890	3943
20°	3888	3943	4025
25°	3918	4003	4117
30°	3961	4080	4229
35°	4009	4167	4345
40°	4063	4265	4478
45°	4134	4353	4620
50°	4186	4454	4761
55°	4257	4572	4901
60°	4281	4608	5021
65°	4333	4618	5106
70°	4323	4575	5203
75°	4285	4484	5215
80°	4011	4059	4851
85°	2958	3155	3255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	2.1
10°-20°	316.1	6.2
20°-30°	498.5	9.8
30°-40°	635.1	12.4
40°-50°	707.3	13.9
50°-60°	693.7	13.6
60°-70°	579.5	11.4
70°-80°	373.4	7.3
80°-90°	104.9	2.1
90°-100°	50.8	1.0
100°-110°	89.2	1.7
110°-120°	130.5	2.6
120°-130°	175.4	3.4
130°-140°	200.6	3.9
140°-150°	186.8	3.7
150°-160°	140.8	2.8
160°-170°	85.7	1.7
170°-180°	28.7	0.6
0°-30°	922.6	18.1
0°-40°	1557.7	30.5
0°-60°	2958.6	58.0
0°-90°	4016.4	78.7
90°-120°	270.4	5.3
90°-150°	833.1	16.3
90°-180°	1088.0	21.3
0°-180°	5104.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1133	1133	1128	1135	1135	108
15°	1107	1112	1115	1125	1130	313
25°	1054	1061	1077	1100	1107	487
35°	975	985	1013	1044	1056	610
45°	868	880	913	954	970	668
55°	725	740	778	814	834	645
65°	544	556	579	623	640	537
75°	329	334	344	383	401	345
85°	76	79	82	87	84	92
90°	3	18	26	31	31	6
95°	26	38	51	59	64	27
105°	84	79	79	89	92	88
115°	143	140	130	122	120	142
125°	204	199	196	191	191	182
135°	258	253	258	268	273	198
145°	291	288	293	309	314	182
155°	301	301	304	309	311	139
165°	301	301	301	304	304	85
175°	301	301	301	301	301	29
180°	301	301	301	301	301	



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CATALOG NUMBER: DSI-WD-50L835-1D-UNV-4-STD-FC-W

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1132.8	1132.8	1132.8	1132.8	1132.8
2.5°	1135.4	1135.4	1130.3	1135.4	1135.4
5°	1132.8	1132.8	1127.7	1135.4	1135.4
7.5°	1130.3	1130.3	1125.2	1135.4	1135.4
10°	1122.6	1125.2	1122.6	1132.8	1135.4
12.5°	1117.5	1120.1	1120.1	1130.3	1130.3
15°	1107.3	1112.4	1115.0	1125.2	1130.3
17.5°	1097.1	1102.2	1107.3	1120.1	1125.2
20°	1084.4	1089.5	1099.7	1115.0	1122.6
22.5°	1069.1	1076.7	1089.5	1107.3	1115.0
25°	1053.7	1061.4	1076.7	1099.7	1107.3
27.5°	1038.4	1046.1	1064.0	1086.9	1097.1
30°	1018.0	1028.2	1048.6	1074.2	1086.9
32.5°	995.1	1007.8	1030.8	1058.8	1071.6
35°	974.7	984.9	1012.9	1043.5	1056.3
37.5°	949.1	961.9	990.0	1025.7	1038.4
40°	923.6	938.9	969.5	1002.7	1018.0
42.5°	895.6	908.3	944.0	979.8	995.1
45°	867.5	880.2	913.4	954.2	969.5
47.5°	831.8	849.6	885.4	926.2	941.5
50°	798.6	813.9	849.6	893.0	908.3
52.5°	760.3	780.7	813.9	854.7	872.6
55°	724.6	739.9	778.2	813.9	834.3
57.5°	681.2	699.1	732.3	770.5	793.5
60°	635.3	653.2	683.8	722.1	745.0
62.5°	594.5	604.7	632.8	673.6	694.0
65°	543.5	556.2	579.2	622.6	640.4
67.5°	492.4	502.6	523.0	566.4	584.3
70°	438.8	449.1	464.4	507.7	528.1
72.5°	385.3	392.9	410.8	446.5	464.4
75°	329.1	334.2	344.4	382.7	400.6
77.5°	270.5	270.5	280.7	313.8	331.7
80°	206.7	206.7	209.2	239.8	250.0
82.5°	142.9	137.8	142.9	160.7	163.3
85°	76.5	79.1	81.6	86.7	84.2
87.5°	28.1	33.2	35.7	33.2	33.2
90°	2.6	17.9	25.5	30.6	30.6
92.5°	12.8	30.6	43.4	45.9	48.5
95°	25.5	38.3	51.0	58.7	63.8
97.5°	40.8	43.4	58.7	68.9	68.9
100°	53.6	53.6	66.3	76.5	76.5
102.5°	68.9	66.3	74.0	81.6	84.2
105°	84.2	79.1	79.1	89.3	91.9
107.5°	97.0	94.4	86.7	97.0	99.5
110°	112.3	109.7	99.5	102.1	104.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	130.1	125.0	114.8	109.7	109.7
115°	142.9	140.3	130.1	122.5	119.9
117.5°	158.2	153.1	145.4	137.8	132.7
120°	173.5	168.4	160.7	155.6	150.5
122.5°	188.8	186.3	178.6	173.5	170.9
125°	204.1	199.0	196.5	191.4	191.4
127.5°	216.9	214.3	211.8	211.8	211.8
130°	232.2	227.1	229.6	229.6	234.7
132.5°	244.9	239.8	244.9	250.0	252.6
135°	257.7	252.6	257.7	267.9	273.0
137.5°	267.9	265.3	270.5	283.2	288.3
140°	278.1	275.6	283.2	296.0	303.6
142.5°	285.8	283.2	290.9	303.6	311.3
145°	290.9	288.3	293.4	308.7	313.8
147.5°	296.0	293.4	296.0	313.8	318.9
150°	298.5	298.5	298.5	313.8	318.9
152.5°	298.5	298.5	301.1	308.7	316.4
155°	301.1	301.1	303.6	308.7	311.3
157.5°	301.1	301.1	303.6	306.2	308.7
160°	301.1	301.1	301.1	306.2	306.2
162.5°	301.1	301.1	301.1	303.6	306.2
165°	301.1	301.1	301.1	303.6	303.6
167.5°	301.1	301.1	301.1	303.6	303.6
170°	301.1	301.1	301.1	301.1	301.1
172.5°	301.1	301.1	301.1	301.1	301.1
175°	301.1	301.1	301.1	301.1	301.1
177.5°	301.1	301.1	301.1	301.1	301.1
180°	301.1	301.1	301.1	301.1	301.1

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