

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: P213019

Luminaire Tested: **DSI-WS-50L835-1D-UNV-4-STD-DC-W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P213019  
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-50L835-1D-UNV-4-STD-DC-W  
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE  
WaveStream SPECULAR OPTIC WITH DUST COVER, LIGHT LEVEL 4.  
Light Source: (308) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4963.4 lumens  
Efficiency: N/A  
Efficacy: 131.3 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

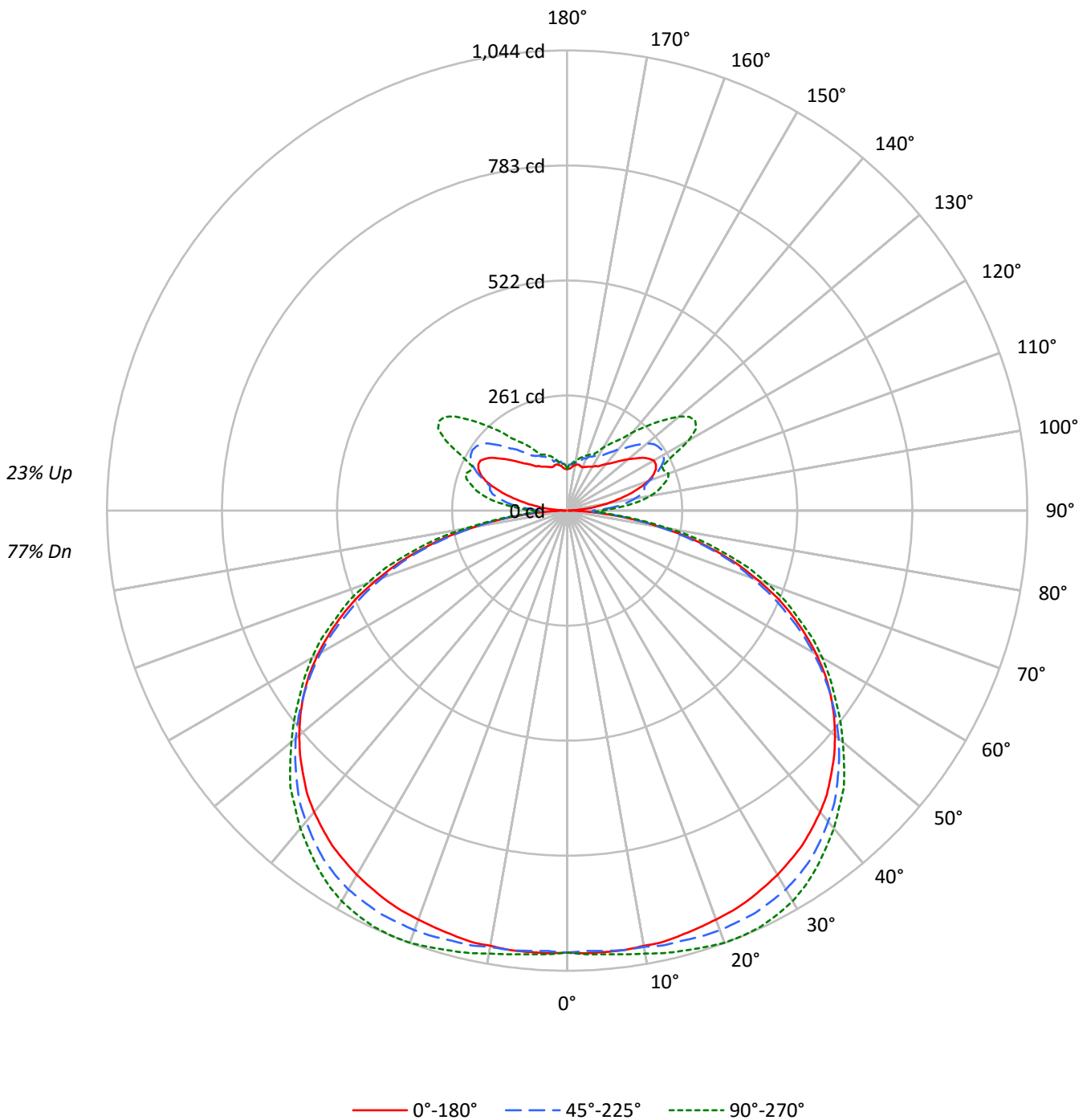
Input Watts (W): 37.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0
RCR																				
0	114	114	114	114	108	108	108	108	98	98	98		89	89	89		81	81	81	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°	3379	3379	3379
5°	3400	3392	3418
10°	3431	3440	3492
15°	3480	3525	3605
20°	3541	3632	3742
25°	3624	3747	3870
30°	3713	3862	3981
35°	3820	3967	4062
40°	3928	4052	4141
45°	4037	4134	4231
50°	4160	4213	4280
55°	4287	4287	4362
60°	4402	4350	4505
65°	4496	4374	4618
70°	4525	4399	4751
75°	4484	4385	4783
80°	4110	4110	4554
85°	3255	3750	3947



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.2	1.9
10°-20°	287.5	5.8
20°-30°	465.5	9.4
30°-40°	601.7	12.1
40°-50°	669.6	13.5
50°-60°	656.3	13.2
60°-70°	557.2	11.2
70°-80°	365.5	7.4
80°-90°	119.1	2.4
90°-100°	111.1	2.2
100°-110°	191.6	3.9
110°-120°	231.2	4.7
120°-130°	237.2	4.8
130°-140°	167.0	3.4
140°-150°	101.7	2.0
150°-160°	61.3	1.2
160°-170°	33.5	0.7
170°-180°	10.2	0.2
0°-30°	849.2	17.1
0°-40°	1450.9	29.2
0°-60°	2776.9	55.9
0°-90°	3818.7	76.9
90°-120°	533.9	10.8
90°-150°	1039.7	20.9
90°-180°	1145.0	23.1
0°-180°	4963.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1005	1005	1003	1010	1010	96
15°	998	1003	1010	1028	1033	282
25°	975	985	1008	1033	1041	450
35°	929	942	964	982	987	581
45°	847	857	868	880	888	654
55°	730	730	730	740	742	651
65°	564	559	549	577	579	556
75°	344	337	337	367	367	361
85°	84	87	97	105	102	97
90°	3	36	59	74	79	7
95°	38	82	115	133	135	42
105°	148	148	181	217	224	154
115°	222	214	235	240	237	216
125°	209	219	253	322	355	186
135°	156	176	207	255	281	122
145°	122	140	158	181	191	79
155°	110	122	135	140	140	51
165°	107	112	115	122	125	30
175°	97	107	105	107	107	10
180°	94	94	94	94	94	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1002.7	1002.7	1002.7	1002.7	1002.7
2.5°	1005.3	1005.3	1000.2	1005.3	1007.8
5°	1005.3	1005.3	1002.7	1010.4	1010.4
7.5°	1005.3	1005.3	1005.3	1012.9	1015.5
10°	1002.7	1005.3	1005.3	1018.0	1020.6
12.5°	1002.7	1005.3	1010.4	1023.1	1028.2
15°	997.6	1002.7	1010.4	1028.2	1033.3
17.5°	992.5	1000.2	1012.9	1033.3	1038.4
20°	987.4	997.6	1012.9	1035.9	1043.5
22.5°	982.3	992.5	1010.4	1035.9	1043.5
25°	974.7	984.9	1007.8	1033.3	1041.0
27.5°	964.4	977.2	1000.2	1025.7	1033.3
30°	954.2	969.6	992.5	1015.5	1023.1
32.5°	941.5	956.8	979.8	1002.7	1007.8
35°	928.7	941.5	964.4	982.3	987.4
37.5°	910.9	921.1	944.0	961.9	964.4
40°	893.0	903.2	921.1	938.9	941.5
42.5°	872.6	880.3	898.1	910.9	913.4
45°	847.1	857.3	867.5	880.3	887.9
47.5°	821.6	829.2	836.9	849.6	852.2
50°	793.5	798.6	803.7	816.5	816.5
52.5°	762.9	768.0	768.0	778.2	780.7
55°	729.7	729.7	729.7	739.9	742.5
57.5°	694.0	694.0	688.9	701.6	706.8
60°	653.2	653.2	645.5	660.8	668.5
62.5°	609.8	607.2	599.6	617.5	627.7
65°	563.9	558.8	548.6	576.6	579.2
67.5°	515.4	510.3	500.1	528.2	535.8
70°	459.3	459.3	446.5	479.7	482.2
72.5°	405.7	398.0	395.5	423.5	431.2
75°	344.4	336.8	336.8	367.4	367.4
77.5°	283.2	273.0	273.0	301.1	308.7
80°	211.8	209.2	211.8	232.2	234.7
82.5°	150.5	142.9	150.5	163.3	165.8
85°	84.2	86.7	97.0	104.6	102.1
87.5°	33.2	45.9	56.1	61.2	63.8
90°	2.6	35.7	58.7	74.0	79.1
92.5°	15.3	58.7	84.2	99.5	104.6
95°	38.3	81.6	114.8	132.7	135.2
97.5°	63.8	97.0	137.8	160.7	168.4
100°	91.9	112.3	155.6	183.7	191.4
102.5°	119.9	130.1	173.5	201.6	211.8
105°	148.0	148.0	181.2	216.9	224.5
107.5°	173.5	168.4	183.7	227.1	239.8
110°	196.5	186.3	199.0	224.5	244.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	211.8	201.6	219.4	224.5	237.3
115°	222.0	214.3	234.7	239.8	237.3
117.5°	227.1	222.0	247.5	280.7	270.5
120°	227.1	227.1	252.6	308.7	318.9
122.5°	219.4	227.1	255.1	321.5	347.0
125°	209.2	219.4	252.6	321.5	354.7
127.5°	193.9	209.2	247.5	311.3	349.5
130°	181.2	199.0	237.3	296.0	331.7
132.5°	168.4	188.8	222.0	275.6	306.2
135°	155.6	176.1	206.7	255.1	280.7
137.5°	145.4	165.8	191.4	234.7	255.1
140°	137.8	160.7	181.2	211.8	232.2
142.5°	130.1	150.5	168.4	193.9	206.7
145°	122.5	140.3	158.2	181.2	191.4
147.5°	119.9	137.8	148.0	168.4	178.6
150°	114.8	130.1	142.9	158.2	165.8
152.5°	112.3	125.0	140.3	148.0	150.5
155°	109.7	122.5	135.2	140.3	140.3
157.5°	107.2	122.5	132.7	132.7	137.8
160°	104.6	114.8	125.0	135.2	132.7
162.5°	104.6	112.3	125.0	130.1	130.1
165°	107.2	112.3	114.8	122.5	125.0
167.5°	107.2	112.3	117.4	117.4	119.9
170°	104.6	107.2	109.7	117.4	112.3
172.5°	102.1	107.2	112.3	109.7	107.2
175°	97.0	107.2	104.6	107.2	107.2
177.5°	94.4	97.0	104.6	107.2	104.6
180°	94.4	94.4	94.4	94.4	94.4

(END OF REPORT)