

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: P213061

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213061
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35732)
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-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 4.
Light Source: (308) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5171.3 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.45 / 1.52
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')
CIE Type: Semi-Direct

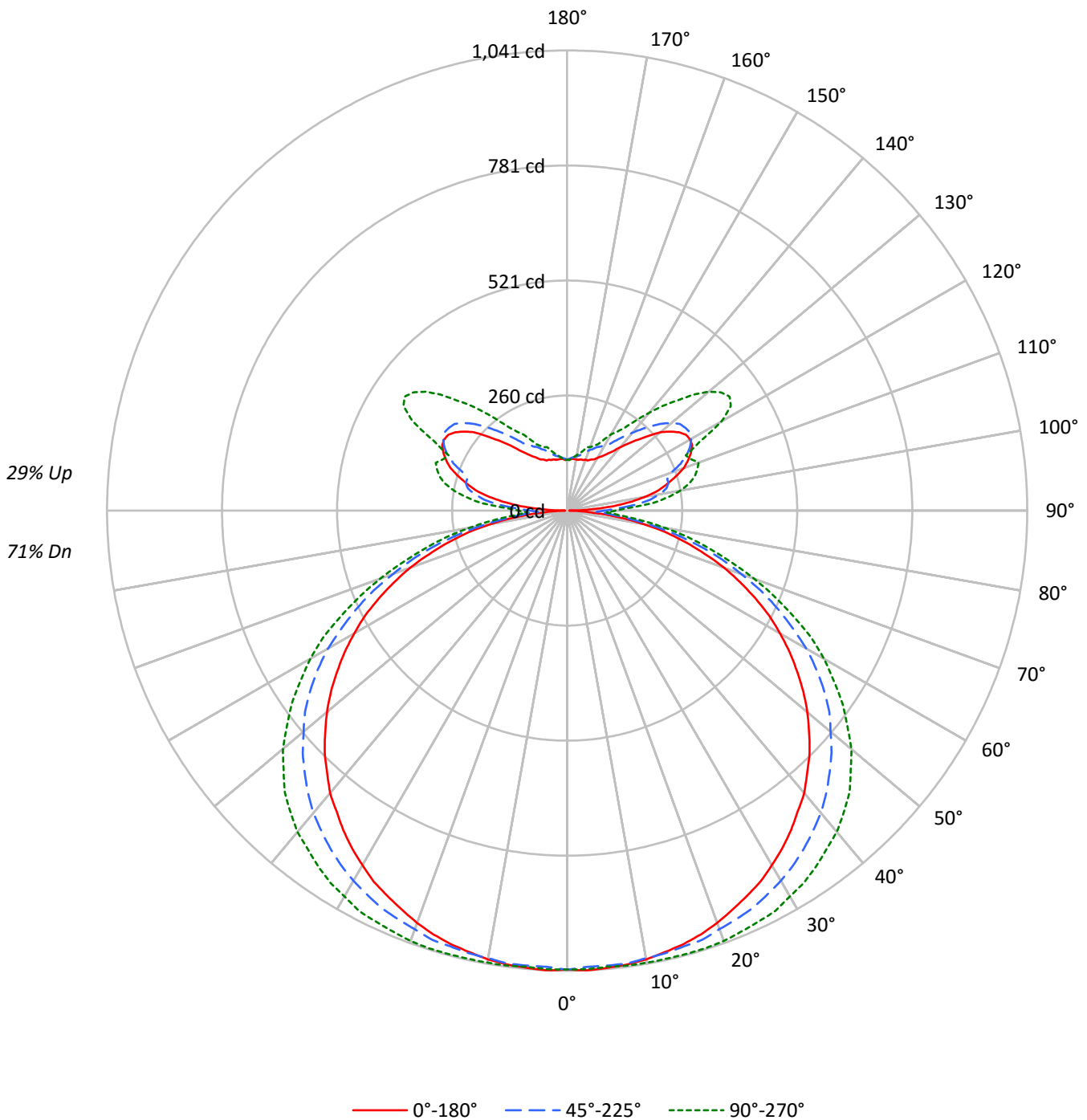
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	75	75	75	71
1	101	97	92	88	96	91	88	84	82	79	76	73	71	69	65	63	62	58
2	92	83	77	71	86	79	73	68	71	66	62	63	59	56	56	53	51	47
3	83	73	65	58	78	69	62	56	62	56	51	55	51	47	49	45	42	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	43	39	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	36	60	48	40	34	44	37	32	39	33	29	35	30	27	24
7	59	46	37	31	55	43	36	30	39	33	28	35	30	26	32	27	24	21
8	55	41	33	27	52	39	32	26	36	29	25	32	27	23	29	24	21	19
9	51	38	30	24	48	36	29	23	33	26	22	30	24	20	27	22	19	17
10	48	35	27	22	45	33	26	21	30	24	20	27	22	18	25	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3499	3499	3499
5°	3512	3495	3504
10°	3527	3518	3553
15°	3543	3560	3622
20°	3559	3614	3715
25°	3576	3690	3813
30°	3604	3762	3921
35°	3631	3841	4041
40°	3670	3928	4175
45°	3696	4000	4304
50°	3718	4079	4400
55°	3732	4167	4467
60°	3748	4213	4522
65°	3743	4191	4496
70°	3720	4122	4425
75°	3621	4053	4351
80°	3415	3813	4356
85°	2467	3847	4539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	1.9
10°-20°	290.0	5.6
20°-30°	458.8	8.9
30°-40°	584.9	11.3
40°-50°	648.0	12.5
50°-60°	628.2	12.1
60°-70°	516.0	10.0
70°-80°	326.2	6.3
80°-90°	119.2	2.3
90°-100°	158.4	3.1
100°-110°	261.0	5.0
110°-120°	302.6	5.9
120°-130°	313.5	6.1
130°-140°	219.7	4.2
140°-150°	125.4	2.4
150°-160°	71.4	1.4
160°-170°	37.7	0.7
170°-180°	11.5	0.2
0°-30°	847.7	16.4
0°-40°	1432.5	27.7
0°-60°	2708.8	52.4
0°-90°	3670.2	71.0
90°-120°	722.0	14.0
90°-150°	1380.5	26.7
90°-180°	1501.0	29.0
0°-180°	5171.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1038	1038	1038	1038	1038	
5°	1038	1038	1033	1036	1036	99
15°	1016	1018	1021	1036	1038	287
25°	962	972	992	1018	1026	444
35°	883	901	934	970	982	553
45°	776	799	839	885	903	598
55°	635	663	709	745	760	568
65°	470	495	526	554	564	464
75°	278	296	311	322	334	293
85°	64	76	100	115	117	77
90°	5	48	84	102	110	11
95°	97	115	156	184	194	95
105°	235	212	237	281	298	247
115°	309	296	298	293	296	304
125°	309	314	327	403	449	274
135°	227	248	270	322	352	178
145°	156	176	194	219	230	100
155°	128	140	158	163	166	59
165°	120	125	133	140	140	34
175°	117	117	120	120	117	11
180°	115	115	115	115	115	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1038.4	1038.4	1038.4	1038.4	1038.4
2.5°	1041.0	1041.0	1033.3	1038.4	1038.4
5°	1038.4	1038.4	1033.3	1035.9	1035.9
7.5°	1035.9	1035.9	1033.3	1038.4	1038.4
10°	1030.8	1030.8	1028.2	1035.9	1038.4
12.5°	1023.1	1023.1	1025.7	1035.9	1038.4
15°	1015.5	1018.0	1020.6	1035.9	1038.4
17.5°	1005.3	1007.8	1018.0	1033.3	1038.4
20°	992.5	997.6	1007.8	1028.2	1035.9
22.5°	977.2	984.9	1000.2	1023.1	1030.8
25°	961.9	972.1	992.5	1018.0	1025.7
27.5°	946.6	956.8	979.8	1010.4	1020.6
30°	926.2	938.9	967.0	997.6	1007.8
32.5°	905.8	921.1	951.7	984.9	997.6
35°	882.8	900.7	933.8	969.5	982.3
37.5°	857.3	877.7	913.4	951.7	964.4
40°	834.3	852.2	893.0	933.8	949.1
42.5°	803.7	826.7	867.5	908.3	926.2
45°	775.6	798.6	839.4	885.4	903.2
47.5°	742.5	768.0	811.4	857.3	870.0
50°	709.3	734.8	778.2	821.6	839.4
52.5°	673.6	699.1	747.6	785.8	798.6
55°	635.3	663.4	709.3	745.0	760.3
57.5°	597.0	625.1	668.5	701.6	714.4
60°	556.2	581.7	625.1	655.7	671.0
62.5°	515.4	538.4	574.1	607.2	622.6
65°	469.5	495.0	525.6	553.7	563.9
67.5°	423.5	446.5	474.6	497.5	507.7
70°	377.6	398.0	418.4	441.4	449.1
72.5°	326.6	347.0	367.4	380.2	390.4
75°	278.1	296.0	311.3	321.5	334.2
77.5°	229.6	242.4	252.6	273.0	280.7
80°	176.0	186.3	196.5	216.9	224.5
82.5°	119.9	127.6	142.9	160.7	168.4
85°	63.8	76.5	99.5	114.8	117.4
87.5°	25.5	43.4	66.3	81.6	89.3
90°	5.1	48.5	84.2	102.1	109.7
92.5°	43.4	81.6	114.8	132.7	137.8
95°	97.0	114.8	155.6	183.7	193.9
97.5°	140.3	145.4	188.8	219.4	229.6
100°	178.6	163.3	211.8	250.0	260.2
102.5°	211.8	188.8	229.6	267.9	283.2
105°	234.7	211.8	237.3	280.7	298.5
107.5°	257.7	237.3	237.3	290.9	308.7
110°	280.7	260.2	250.0	290.9	316.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.0	280.7	278.1	283.2	303.6
115°	308.7	296.0	298.5	293.4	296.0
117.5°	318.9	308.7	313.8	354.7	339.3
120°	321.5	316.4	324.0	390.4	403.1
122.5°	318.9	318.9	329.1	403.1	438.8
125°	308.7	313.8	326.6	403.1	449.1
127.5°	293.4	301.1	321.5	392.9	438.8
130°	275.6	285.8	308.7	372.5	418.4
132.5°	250.0	267.9	290.9	349.5	387.8
135°	227.1	247.5	270.5	321.5	352.1
137.5°	206.7	227.1	250.0	293.4	321.5
140°	186.3	206.7	229.6	265.4	288.3
142.5°	168.4	191.4	211.8	239.8	257.7
145°	155.6	176.0	193.9	219.4	229.6
147.5°	145.4	163.3	178.6	204.1	211.8
150°	137.8	153.1	170.9	188.8	199.0
152.5°	130.1	145.4	163.3	173.5	181.2
155°	127.6	140.3	158.2	163.3	165.8
157.5°	122.5	135.2	150.5	158.2	158.2
160°	122.5	130.1	145.4	153.1	153.1
162.5°	119.9	127.6	137.8	148.0	150.5
165°	119.9	125.0	132.7	140.3	140.3
167.5°	117.4	122.5	127.6	132.7	132.7
170°	117.4	119.9	125.0	127.6	127.6
172.5°	117.4	119.9	122.5	122.5	122.5
175°	117.4	117.4	119.9	119.9	117.4
177.5°	114.8	117.4	117.4	117.4	114.8
180°	114.8	114.8	114.8	114.8	114.8

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