

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: P213066

Luminaire Tested: **DSI-WD-50L840-1D-UNV-4-STD-W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213066
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-50L840-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 4.
Light Source: (308) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5233.5 lumens
Efficiency: N/A
Efficacy: 138.5 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

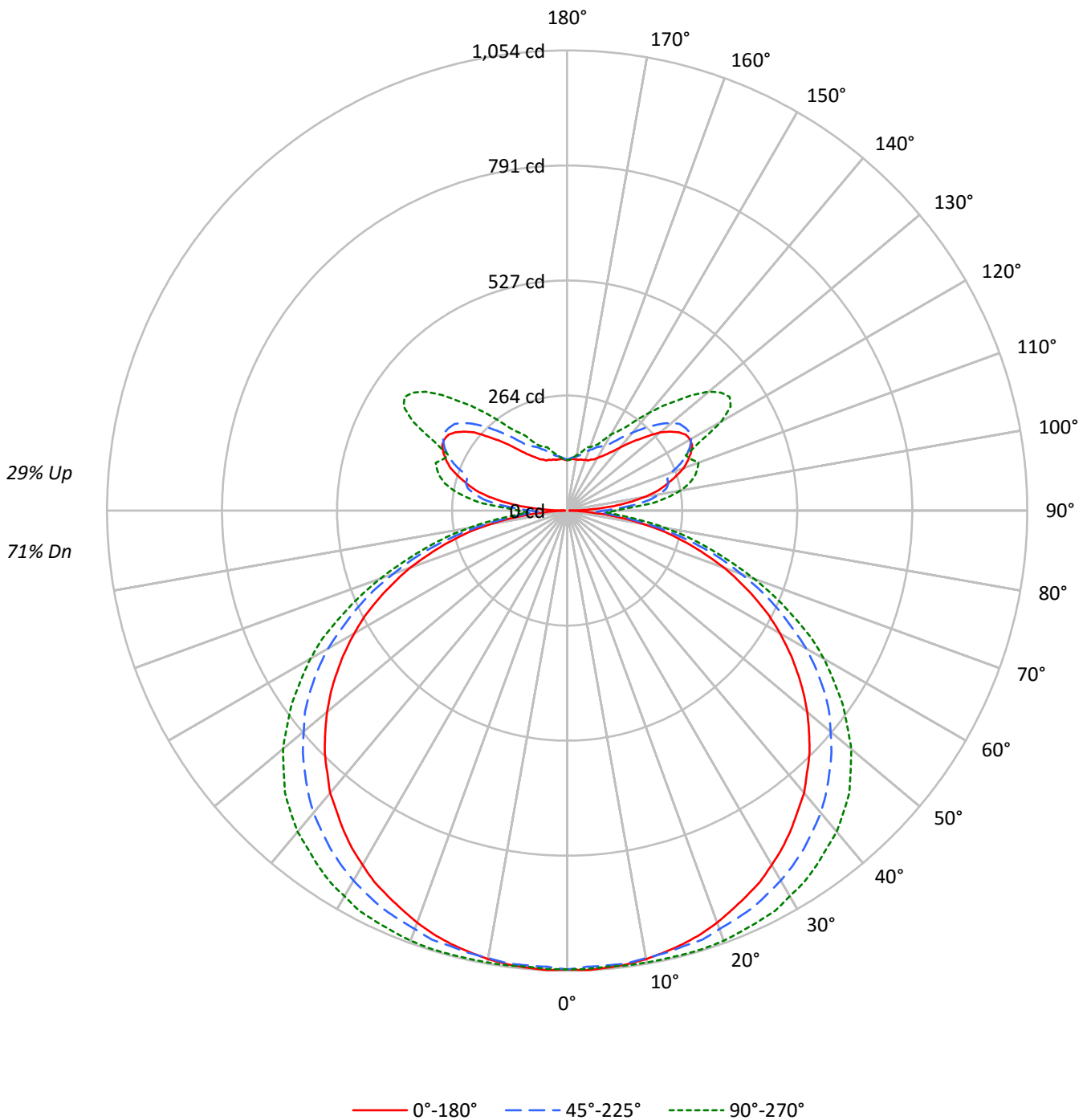
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3541	3541	3541
5°	3555	3537	3546
10°	3569	3560	3596
15°	3585	3603	3666
20°	3602	3657	3759
25°	3619	3734	3859
30°	3647	3808	3968
35°	3675	3888	4089
40°	3714	3975	4225
45°	3741	4048	4356
50°	3763	4128	4453
55°	3777	4217	4521
60°	3793	4263	4577
65°	3788	4241	4549
70°	3765	4172	4478
75°	3665	4101	4404
80°	3458	3858	4409
85°	2498	3893	4593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.9
10°-20°	293.5	5.6
20°-30°	464.3	8.9
30°-40°	591.9	11.3
40°-50°	655.8	12.5
50°-60°	635.8	12.1
60°-70°	522.2	10.0
70°-80°	330.1	6.3
80°-90°	120.7	2.3
90°-100°	160.4	3.1
100°-110°	264.1	5.0
110°-120°	306.2	5.9
120°-130°	317.3	6.1
130°-140°	222.3	4.2
140°-150°	126.9	2.4
150°-160°	72.2	1.4
160°-170°	38.2	0.7
170°-180°	11.6	0.2
0°-30°	857.8	16.4
0°-40°	1449.7	27.7
0°-60°	2741.3	52.4
0°-90°	3714.3	71.0
90°-120°	730.7	14.0
90°-150°	1397.1	26.7
90°-180°	1519.0	29.0
0°-180°	5233.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1051	1051	1051	1051	1051	
5°	1051	1051	1046	1048	1048	100
15°	1028	1030	1033	1048	1051	290
25°	974	984	1004	1030	1038	449
35°	893	912	945	981	994	559
45°	785	808	850	896	914	605
55°	643	671	718	754	770	575
65°	475	501	532	560	571	470
75°	282	300	315	325	338	297
85°	65	78	101	116	119	78
90°	5	49	85	103	111	11
95°	98	116	158	186	196	96
105°	238	214	240	284	302	250
115°	312	300	302	297	300	307
125°	312	318	330	408	454	277
135°	230	250	274	325	356	180
145°	158	178	196	222	232	101
155°	129	142	160	165	168	60
165°	121	126	134	142	142	34
175°	119	119	121	121	119	11
180°	116	116	116	116	116	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.9	1050.9	1050.9	1050.9	1050.9
2.5°	1053.5	1053.5	1045.8	1050.9	1050.9
5°	1050.9	1050.9	1045.8	1048.3	1048.3
7.5°	1048.3	1048.3	1045.8	1050.9	1050.9
10°	1043.2	1043.2	1040.6	1048.3	1050.9
12.5°	1035.4	1035.4	1038.0	1048.3	1050.9
15°	1027.7	1030.3	1032.8	1048.3	1050.9
17.5°	1017.4	1019.9	1030.3	1045.8	1050.9
20°	1004.4	1009.6	1019.9	1040.6	1048.3
22.5°	988.9	996.7	1012.2	1035.4	1043.2
25°	973.5	983.8	1004.4	1030.3	1038.0
27.5°	958.0	968.3	991.5	1022.5	1032.8
30°	937.3	950.2	978.6	1009.6	1019.9
32.5°	916.7	932.1	963.1	996.7	1009.6
35°	893.4	911.5	945.1	981.2	994.1
37.5°	867.6	888.2	924.4	963.1	976.0
40°	844.4	862.4	903.7	945.1	960.5
42.5°	813.4	836.6	877.9	919.2	937.3
45°	785.0	808.2	849.5	896.0	914.1
47.5°	751.4	777.2	821.1	867.6	880.5
50°	717.8	743.6	787.5	831.4	849.5
52.5°	681.7	707.5	756.6	795.3	808.2
55°	642.9	671.3	717.8	754.0	769.5
57.5°	604.2	632.6	676.5	710.1	723.0
60°	562.9	588.7	632.6	663.6	679.1
62.5°	521.6	544.8	581.0	614.5	630.0
65°	475.1	500.9	531.9	560.3	570.6
67.5°	428.6	451.9	480.3	503.5	513.8
70°	382.2	402.8	423.5	446.7	454.5
72.5°	330.5	351.2	371.8	384.7	395.1
75°	281.5	299.5	315.0	325.3	338.3
77.5°	232.4	245.3	255.6	276.3	284.0
80°	178.2	188.5	198.8	219.5	227.2
82.5°	121.4	129.1	144.6	162.7	170.4
85°	64.6	77.5	100.7	116.2	118.8
87.5°	25.8	43.9	67.1	82.6	90.4
90°	5.2	49.1	85.2	103.3	111.0
92.5°	43.9	82.6	116.2	134.3	139.4
95°	98.1	116.2	157.5	185.9	196.2
97.5°	142.0	147.2	191.1	222.1	232.4
100°	180.7	165.3	214.3	253.0	263.4
102.5°	214.3	191.1	232.4	271.1	286.6
105°	237.6	214.3	240.1	284.0	302.1
107.5°	260.8	240.1	240.1	294.4	312.4
110°	284.0	263.4	253.0	294.4	320.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	299.5	284.0	281.5	286.6	307.3
115°	312.4	299.5	302.1	296.9	299.5
117.5°	322.8	312.4	317.6	358.9	343.4
120°	325.3	320.2	327.9	395.1	408.0
122.5°	322.8	322.8	333.1	408.0	444.1
125°	312.4	317.6	330.5	408.0	454.5
127.5°	296.9	304.7	325.3	397.6	444.1
130°	278.9	289.2	312.4	377.0	423.5
132.5°	253.0	271.1	294.4	353.7	392.5
135°	229.8	250.5	273.7	325.3	356.3
137.5°	209.2	229.8	253.0	296.9	325.3
140°	188.5	209.2	232.4	268.5	291.8
142.5°	170.4	193.7	214.3	242.7	260.8
145°	157.5	178.2	196.2	222.1	232.4
147.5°	147.2	165.3	180.7	206.6	214.3
150°	139.4	154.9	173.0	191.1	201.4
152.5°	131.7	147.2	165.3	175.6	183.3
155°	129.1	142.0	160.1	165.3	167.8
157.5°	123.9	136.9	152.3	160.1	160.1
160°	123.9	131.7	147.2	154.9	154.9
162.5°	121.4	129.1	139.4	149.8	152.3
165°	121.4	126.5	134.3	142.0	142.0
167.5°	118.8	123.9	129.1	134.3	134.3
170°	118.8	121.4	126.5	129.1	129.1
172.5°	118.8	121.4	123.9	123.9	123.9
175°	118.8	118.8	121.4	121.4	118.8
177.5°	116.2	118.8	118.8	118.8	116.2
180°	116.2	116.2	116.2	116.2	116.2

(END OF REPORT)