

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: P213056

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P213056
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-50L830-1D-UNV-4-STD-W
Description: DIVIDE 4' SUSPENDED WAVESTREAM LED LUMINAIRE
WaveStream DIFFUSE OPTIC, LIGHT LEVEL 4.
Light Source: (308) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4937.3 lumens
Efficiency: N/A
Efficacy: 130.6 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

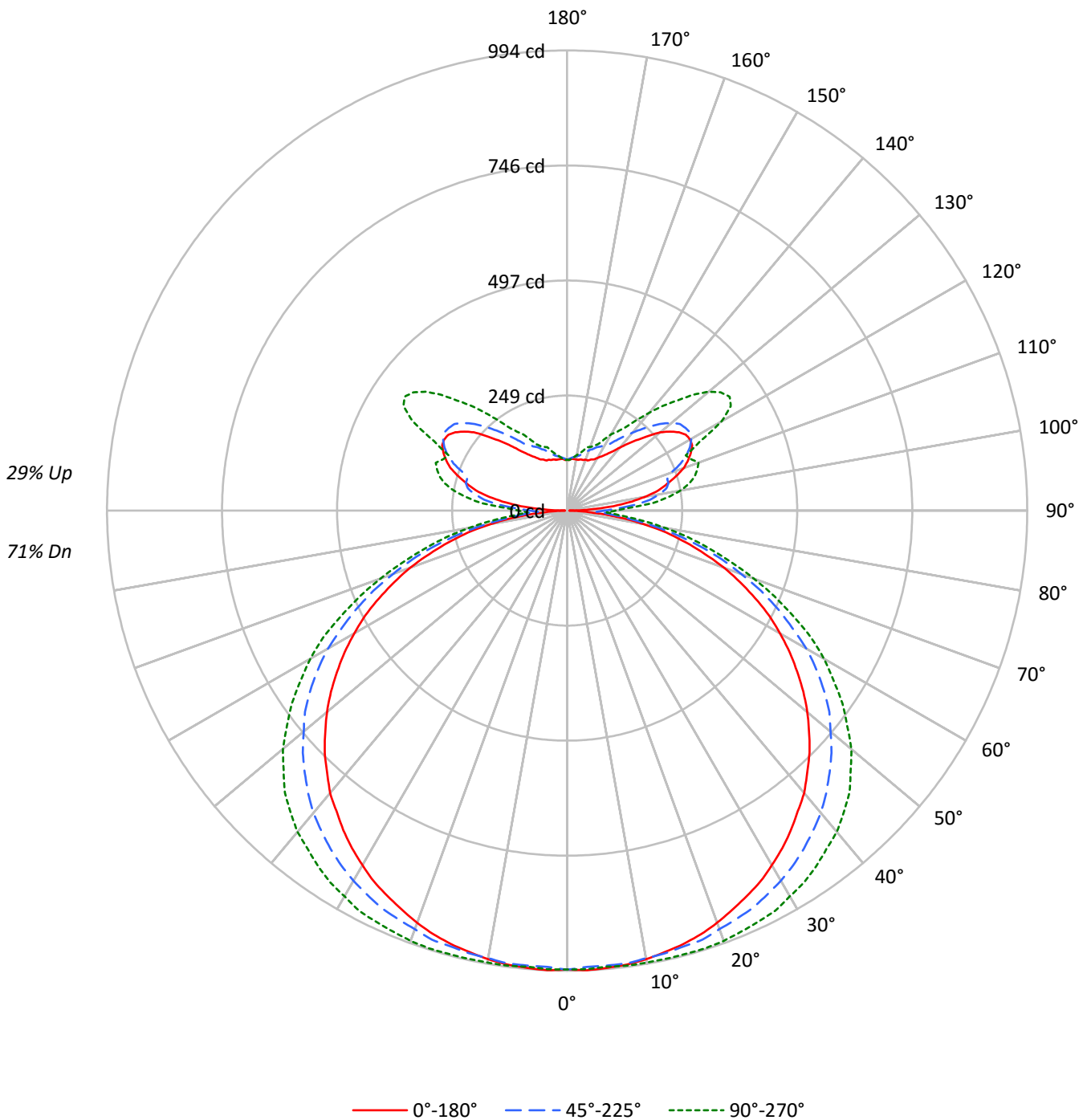
Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3341	3341	3341
5°	3353	3337	3345
10°	3367	3359	3392
15°	3382	3399	3458
20°	3398	3450	3546
25°	3415	3523	3641
30°	3441	3592	3744
35°	3467	3668	3858
40°	3504	3750	3986
45°	3529	3819	4109
50°	3550	3895	4201
55°	3564	3978	4264
60°	3578	4022	4318
65°	3574	4001	4292
70°	3552	3936	4224
75°	3457	3869	4154
80°	3262	3640	4160
85°	2354	3673	4334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.9
10°-20°	276.9	5.6
20°-30°	438.0	8.9
30°-40°	558.4	11.3
40°-50°	618.7	12.5
50°-60°	599.8	12.1
60°-70°	492.6	10.0
70°-80°	311.5	6.3
80°-90°	113.9	2.3
90°-100°	151.3	3.1
100°-110°	249.2	5.0
110°-120°	288.9	5.9
120°-130°	299.3	6.1
130°-140°	209.7	4.2
140°-150°	119.7	2.4
150°-160°	68.1	1.4
160°-170°	36.0	0.7
170°-180°	11.0	0.2
0°-30°	809.3	16.4
0°-40°	1367.7	27.7
0°-60°	2586.2	52.4
0°-90°	3504.1	71.0
90°-120°	689.3	14.0
90°-150°	1318.0	26.7
90°-180°	1433.0	29.0
0°-180°	4937.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	991	991	987	989	989	94
15°	970	972	974	989	991	274
25°	918	928	948	972	979	424
35°	843	860	892	926	938	528
45°	740	762	801	845	862	571
55°	607	633	677	711	726	542
65°	448	473	502	529	538	443
75°	266	283	297	307	319	280
85°	61	73	95	110	112	74
90°	5	46	80	97	105	10
95°	93	110	149	175	185	90
105°	224	202	226	268	285	235
115°	295	283	285	280	283	290
125°	295	300	312	385	429	262
135°	217	236	258	307	336	170
145°	149	168	185	210	219	95
155°	122	134	151	156	158	57
165°	114	119	127	134	134	32
175°	112	112	114	114	112	11
180°	110	110	110	110	110	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	991.4	991.4	991.4	991.4	991.4
2.5°	993.9	993.9	986.6	991.4	991.4
5°	991.4	991.4	986.6	989.0	989.0
7.5°	989.0	989.0	986.6	991.4	991.4
10°	984.1	984.1	981.7	989.0	991.4
12.5°	976.8	976.8	979.3	989.0	991.4
15°	969.5	971.9	974.4	989.0	991.4
17.5°	959.8	962.2	971.9	986.6	991.4
20°	947.6	952.5	962.2	981.7	989.0
22.5°	933.0	940.3	954.9	976.8	984.1
25°	918.4	928.1	947.6	971.9	979.3
27.5°	903.7	913.5	935.4	964.6	974.4
30°	884.3	896.4	923.2	952.5	962.2
32.5°	864.8	879.4	908.6	940.3	952.5
35°	842.8	859.9	891.6	925.7	937.8
37.5°	818.5	838.0	872.1	908.6	920.8
40°	796.6	813.6	852.6	891.6	906.2
42.5°	767.3	789.2	828.2	867.2	884.3
45°	740.5	762.5	801.4	845.3	862.3
47.5°	708.9	733.2	774.6	818.5	830.7
50°	677.2	701.6	743.0	784.4	801.4
52.5°	643.1	667.5	713.7	750.3	762.5
55°	606.6	633.3	677.2	711.3	725.9
57.5°	570.0	596.8	638.2	669.9	682.1
60°	531.0	555.4	596.8	626.0	640.7
62.5°	492.1	514.0	548.1	579.8	594.4
65°	448.2	472.6	501.8	528.6	538.3
67.5°	404.4	426.3	453.1	475.0	484.8
70°	360.5	380.0	399.5	421.4	428.7
72.5°	311.8	331.3	350.8	363.0	372.7
75°	265.5	282.6	297.2	306.9	319.1
77.5°	219.2	231.4	241.2	260.6	268.0
80°	168.1	177.8	187.6	207.1	214.4
82.5°	114.5	121.8	136.4	153.5	160.8
85°	60.9	73.1	95.0	109.6	112.1
87.5°	24.4	41.4	63.3	78.0	85.3
90°	4.9	46.3	80.4	97.4	104.7
92.5°	41.4	78.0	109.6	126.7	131.5
95°	92.6	109.6	148.6	175.4	185.1
97.5°	134.0	138.8	180.3	209.5	219.2
100°	170.5	155.9	202.2	238.7	248.5
102.5°	202.2	180.3	219.2	255.8	270.4
105°	224.1	202.2	226.5	268.0	285.0
107.5°	246.0	226.5	226.5	277.7	294.8
110°	268.0	248.5	238.7	277.7	302.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	282.6	268.0	265.5	270.4	289.9
115°	294.8	282.6	285.0	280.1	282.6
117.5°	304.5	294.8	299.6	338.6	324.0
120°	306.9	302.1	309.4	372.7	384.9
122.5°	304.5	304.5	314.2	384.9	419.0
125°	294.8	299.6	311.8	384.9	428.7
127.5°	280.1	287.4	306.9	375.1	419.0
130°	263.1	272.8	294.8	355.6	399.5
132.5°	238.7	255.8	277.7	333.7	370.3
135°	216.8	236.3	258.2	306.9	336.2
137.5°	197.3	216.8	238.7	280.1	306.9
140°	177.8	197.3	219.2	253.3	275.3
142.5°	160.8	182.7	202.2	229.0	246.0
145°	148.6	168.1	185.1	209.5	219.2
147.5°	138.8	155.9	170.5	194.9	202.2
150°	131.5	146.2	163.2	180.3	190.0
152.5°	124.2	138.8	155.9	165.6	173.0
155°	121.8	134.0	151.0	155.9	158.3
157.5°	116.9	129.1	143.7	151.0	151.0
160°	116.9	124.2	138.8	146.2	146.2
162.5°	114.5	121.8	131.5	141.3	143.7
165°	114.5	119.4	126.7	134.0	134.0
167.5°	112.1	116.9	121.8	126.7	126.7
170°	112.1	114.5	119.4	121.8	121.8
172.5°	112.1	114.5	116.9	116.9	116.9
175°	112.1	112.1	114.5	114.5	112.1
177.5°	109.6	112.1	112.1	112.1	109.6
180°	109.6	109.6	109.6	109.6	109.6

(END OF REPORT)