

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: P520588

Luminaire Tested: **4WSLA-50-L850-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520588  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 4WSLA-50-L850-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

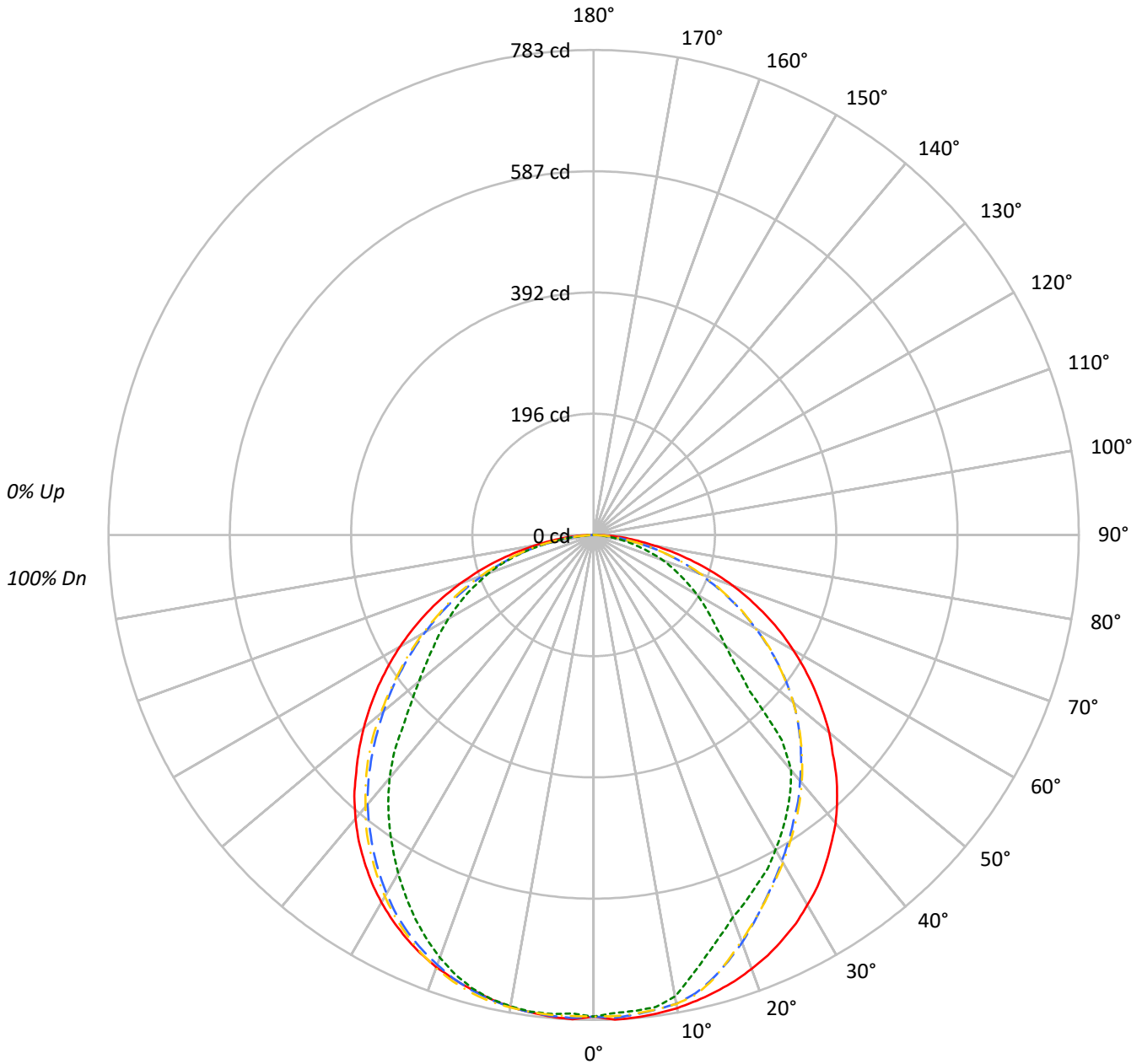
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2086.0 lumens  
Efficiency: N/A  
Efficacy: 133.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	4185	4185	4185	4185
5°	4226	4167	4219	4194
10°	4240	4135	4229	4222
15°	4254	3916	4235	4221
20°	4270	3763	4253	4157
25°	4283	3701	4261	4053
30°	4288	3647	4257	3920
35°	4281	3577	4237	3774
40°	4267	3482	4200	3599
45°	4220	2705	4125	3302
50°	4156	2316	4055	3080
55°	4083	2168	3977	2963
60°	4005	2070	3884	2914
65°	3910	1960	3777	2879
70°	3755	1865	3597	2836
75°	3496	1639	3331	2697
80°	3102	1370	2910	2287
85°	2939	982	2575	1315



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.9	3.5
10°-20°	210.7	10.1
20°-30°	314.9	15.1
30°-40°	374.8	18.0
40°-50°	374.7	18.0
50°-60°	322.4	15.5
60°-70°	242.6	11.6
70°-80°	138.3	6.6
80°-90°	33.7	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	599.5	28.7
0°-40°	974.4	46.7
0°-60°	1671.4	80.1
0°-90°	2086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2086.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	778	778	778	778	778	
5°	782	771	781	776	782	74
15°	763	703	760	758	763	216
25°	721	623	718	682	721	333
35°	652	544	645	574	652	408
45°	554	355	542	434	554	427
55°	435	231	424	316	435	389
65°	307	154	297	226	307	303
75°	168	79	160	130	168	178
85°	48	16	42	21	48	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6	777.6
2.5°	783.4	776.3	780.5	779.3	772.6	775.1	777.6	775.1	782.6	775.9	780.5
5°	782.2	774.7	777.2	774.7	771.3	772.2	775.9	773.4	780.9	773.8	779.7
7.5°	779.7	770.5	773.0	771.8	768.8	769.2	773.0	770.9	777.6	770.9	777.6
10°	775.9	766.3	768.4	763.0	756.7	761.3	768.8	766.7	773.8	766.3	773.8
12.5°	770.1	760.5	758.4	740.5	729.2	738.0	760.9	760.9	767.6	760.5	768.4
15°	763.4	753.0	741.7	714.6	702.9	711.7	743.4	754.2	760.1	753.0	760.9
17.5°	755.5	743.4	721.7	690.0	679.1	687.9	720.4	744.2	751.7	744.2	751.3
20°	745.5	731.3	700.4	664.1	657.0	665.0	697.5	732.1	742.6	733.4	738.4
22.5°	734.6	717.5	676.6	644.1	640.8	645.8	675.4	717.1	730.9	721.3	724.6
25°	721.3	701.3	652.9	625.7	623.2	626.2	653.7	699.6	717.5	707.5	708.8
27.5°	707.1	685.4	630.3	610.3	607.8	609.1	632.0	680.0	702.1	692.1	690.0
30°	690.0	666.6	607.8	589.5	586.9	591.5	611.1	660.0	685.0	675.0	668.7
32.5°	672.9	646.2	585.7	571.5	566.5	570.7	589.5	639.1	666.2	655.8	645.4
35°	651.6	624.5	562.8	548.6	544.4	549.0	567.8	617.4	644.9	634.5	620.3
37.5°	629.5	601.5	541.9	529.0	521.5	526.9	545.6	594.9	622.8	612.0	594.5
40°	607.4	577.4	518.5	505.2	495.6	503.5	522.7	571.1	597.8	587.8	567.8
42.5°	581.5	553.2	495.6	476.8	449.7	475.1	498.1	547.3	571.9	562.3	538.1
45°	554.4	527.3	471.4	425.9	355.4	430.1	473.1	522.3	541.9	532.7	506.4
47.5°	523.5	500.6	446.8	377.5	309.1	381.7	447.6	498.5	513.5	503.5	474.3
50°	496.4	473.9	420.9	336.7	276.6	341.2	420.5	471.8	484.3	475.1	442.6
52.5°	465.6	445.9	393.0	300.4	252.4	304.9	392.1	444.3	454.3	443.4	410.9
55°	435.1	417.6	363.3	268.2	231.1	272.4	362.5	415.9	423.8	411.3	377.5
57.5°	404.2	388.4	332.9	239.5	211.5	244.0	335.0	386.7	392.1	376.3	345.4
60°	372.1	358.8	302.0	214.0	192.3	217.8	301.2	357.5	360.8	343.7	314.1
62.5°	340.0	327.9	271.2	190.6	172.7	193.1	273.2	326.6	328.7	312.5	282.0
65°	307.0	295.8	241.1	166.0	153.9	170.2	243.2	294.5	296.6	278.2	250.7
67.5°	272.8	263.6	209.0	147.3	136.0	148.5	213.2	262.0	263.2	245.3	220.3
70°	238.6	230.7	180.6	126.8	118.5	127.2	183.6	226.1	228.6	209.4	189.4
72.5°	203.6	197.3	153.1	105.5	98.0	105.5	154.8	193.1	194.8	179.0	159.4
75°	168.1	163.5	125.1	84.7	78.8	84.3	126.0	160.2	160.2	145.2	129.7
77.5°	133.9	130.6	95.9	65.1	60.9	64.2	96.4	126.8	126.0	114.3	102.2
80°	100.1	97.6	68.8	47.1	44.2	45.9	68.8	93.9	93.9	85.5	70.9
82.5°	71.8	68.8	45.5	30.9	29.2	30.0	44.6	65.5	66.7	60.5	48.0
85°	47.6	40.9	24.6	17.1	15.9	16.3	23.4	38.0	41.7	35.0	25.0
87.5°	20.9	13.8	6.3	2.5	1.3	1.7	5.0	12.1	15.9	10.4	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	777.6	777.6	777.6	777.6	777.6	777.6
2.5°	780.1	773.4	775.9	777.6	775.9	783.4
5°	779.3	776.3	775.9	778.0	774.7	782.2
7.5°	778.0	776.3	775.9	776.8	772.6	779.7
10°	775.1	772.6	773.4	774.7	769.2	775.9
12.5°	769.7	767.2	767.6	771.8	764.2	770.1
15°	760.5	757.6	760.5	765.1	758.4	763.4
17.5°	748.4	743.8	748.8	755.9	750.9	755.5
20°	733.0	725.9	731.3	744.2	739.6	745.5
22.5°	714.2	705.4	710.8	729.6	728.4	734.6
25°	692.9	682.5	690.0	712.9	715.4	721.3
27.5°	669.1	657.4	667.5	694.6	700.4	707.1
30°	643.3	630.8	642.4	674.1	682.9	690.0
32.5°	616.6	602.8	616.1	651.2	663.7	672.9
35°	588.6	574.4	589.5	627.4	642.4	651.6
37.5°	558.6	544.8	561.1	602.4	620.3	629.5
40°	527.7	512.3	530.6	572.8	596.5	607.4
42.5°	496.0	476.8	499.3	544.8	570.7	581.5
45°	460.5	433.8	464.3	515.2	542.3	554.4
47.5°	425.1	398.4	429.3	483.5	512.7	523.5
50°	390.9	367.9	392.6	448.9	482.7	496.4
52.5°	359.6	340.8	361.7	415.1	451.8	465.6
55°	330.4	315.8	332.9	381.7	419.2	435.1
57.5°	302.9	293.7	305.4	350.0	389.2	404.2
60°	277.0	270.7	279.1	318.7	353.8	372.1
62.5°	251.5	248.2	254.5	285.8	320.8	340.0
65°	226.9	226.1	229.4	257.0	286.2	307.0
67.5°	202.3	201.9	204.0	226.5	252.4	272.8
70°	177.7	180.2	179.0	193.6	218.6	238.6
72.5°	152.7	156.4	154.4	163.5	187.7	203.6
75°	124.7	129.7	125.6	136.0	151.0	168.1
77.5°	95.9	101.4	96.4	105.5	121.8	133.9
80°	68.8	73.8	69.7	76.8	90.9	100.1
82.5°	43.4	47.1	43.8	50.9	65.1	71.8
85°	19.2	21.3	22.1	27.5	40.0	47.6
87.5°	0.8	0.4	0.8	5.4	14.2	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°









(END OF REPORT)