

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: P520582

Luminaire Tested: **4WSLA-50-L835-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520582  
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-L835-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

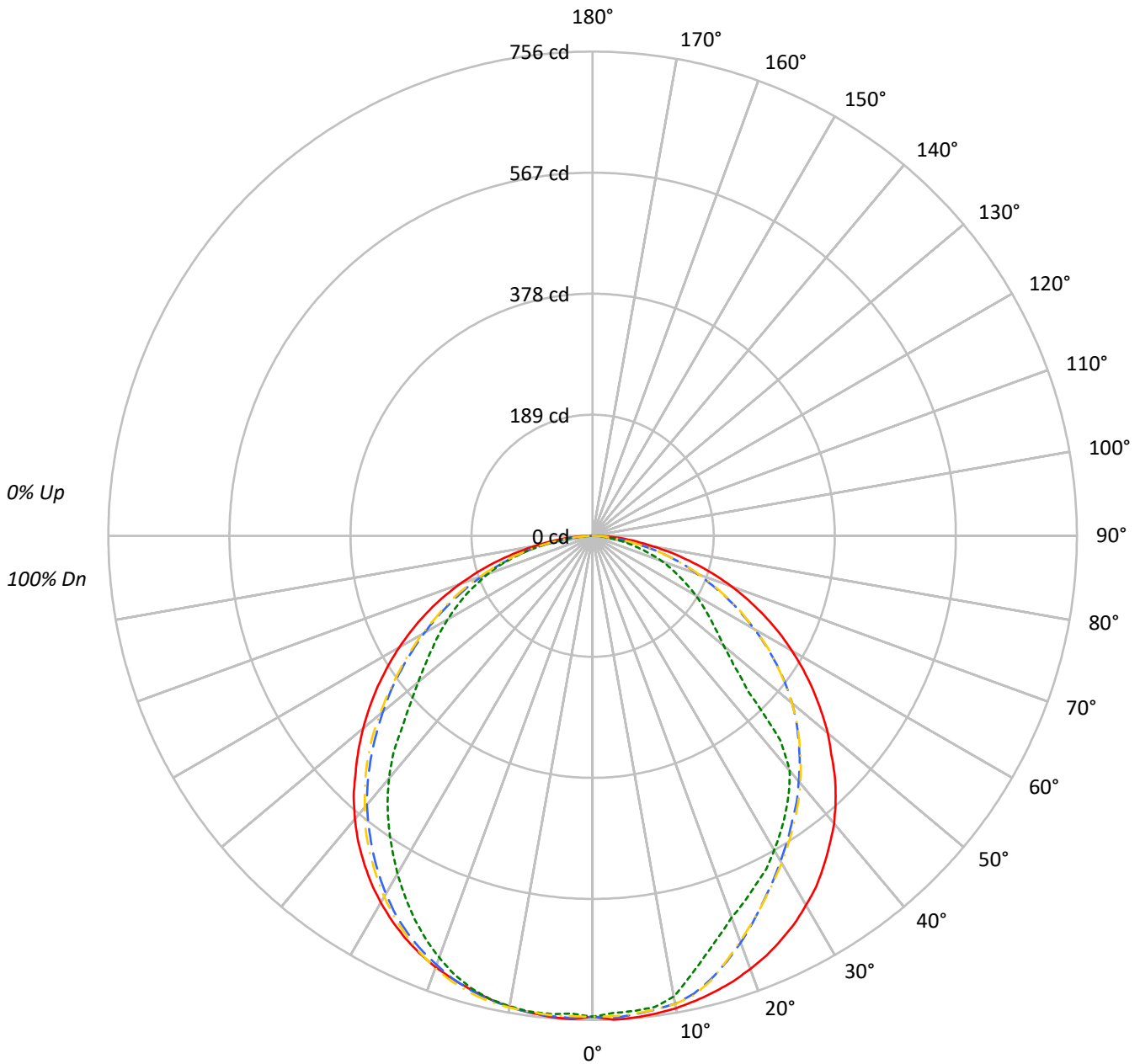
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2014.0 lumens  
Efficiency: N/A  
Efficacy: 129.1 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°	4041	4041	4041	4041
5°	4080	4023	4073	4049
10°	4094	3993	4083	4076
15°	4107	3782	4089	4075
20°	4122	3633	4106	4014
25°	4135	3573	4114	3913
30°	4140	3522	4110	3785
35°	4133	3453	4091	3644
40°	4120	3362	4055	3475
45°	4074	2612	3982	3188
50°	4013	2236	3915	2974
55°	3942	2093	3840	2861
60°	3867	1999	3750	2814
65°	3775	1892	3647	2780
70°	3626	1800	3473	2738
75°	3375	1582	3217	2606
80°	2997	1323	2808	2210
85°	2834	945	2489	1266



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	3.5
10°-20°	203.5	10.1
20°-30°	304.0	15.1
30°-40°	361.9	18.0
40°-50°	361.7	18.0
50°-60°	311.3	15.5
60°-70°	234.3	11.6
70°-80°	133.5	6.6
80°-90°	32.5	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°	578.8	28.7
0°-40°	940.7	46.7
0°-60°	1613.7	80.1
0°-90°	2014.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2014.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	751	751	751	751	751	
5°	755	745	754	750	755	72
15°	737	679	734	731	737	208
25°	696	602	693	659	696	321
35°	629	526	623	555	629	394
45°	535	343	523	419	535	412
55°	420	223	409	305	420	376
65°	296	149	286	218	296	293
75°	162	76	155	125	162	172
85°	46	15	40	20	46	50
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°	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	756.4	749.5	753.6	752.4	745.9	748.3	750.8	748.3	755.6	749.1	753.6
5°	755.2	747.9	750.3	747.9	744.7	745.5	749.1	746.7	754.0	747.1	752.8
7.5°	752.8	743.9	746.3	745.1	742.3	742.7	746.3	744.3	750.8	744.3	750.8
10°	749.1	739.9	741.9	736.7	730.6	735.0	742.3	740.3	747.1	739.9	747.1
12.5°	743.5	734.2	732.2	714.9	704.0	712.5	734.6	734.6	741.1	734.2	741.9
15°	737.1	727.0	716.1	689.9	678.7	687.1	717.7	728.2	733.8	727.0	734.6
17.5°	729.4	717.7	696.8	666.2	655.7	664.2	695.6	718.5	725.8	718.5	725.4
20°	719.7	706.0	676.2	641.2	634.4	642.0	673.4	706.9	716.9	708.1	712.9
22.5°	709.3	692.8	653.3	621.9	618.6	623.5	652.1	692.4	705.6	696.4	699.6
25°	696.4	677.0	630.3	604.1	601.7	604.5	631.1	675.4	692.8	683.1	684.3
27.5°	682.7	661.7	608.6	589.2	586.8	588.0	610.2	656.5	677.9	668.2	666.2
30°	666.2	643.6	586.8	569.1	566.7	571.1	590.0	637.2	661.3	651.7	645.6
32.5°	649.7	623.9	565.5	551.8	547.0	551.0	569.1	617.0	643.2	633.1	623.1
35°	629.1	602.9	543.3	529.6	525.6	530.0	548.2	596.1	622.7	612.6	598.9
37.5°	607.8	580.8	523.2	510.7	503.5	508.7	526.8	574.3	601.3	590.9	573.9
40°	586.4	557.4	500.6	487.7	478.5	486.1	504.7	551.4	577.2	567.5	548.2
42.5°	561.5	534.1	478.5	460.4	434.2	458.7	480.9	528.4	552.2	542.9	519.6
45°	535.3	509.1	455.1	411.2	343.2	415.2	456.7	504.3	523.2	514.3	489.0
47.5°	505.5	483.3	431.4	364.5	298.4	368.5	432.2	481.3	495.8	486.1	457.9
50°	479.3	457.5	406.4	325.0	267.0	329.5	406.0	455.5	467.6	458.7	427.3
52.5°	449.5	430.6	379.4	290.0	243.7	294.4	378.6	428.9	438.6	428.1	396.7
55°	420.1	403.2	350.8	259.0	223.1	263.0	350.0	401.6	409.2	397.1	364.5
57.5°	390.3	375.0	321.4	231.2	204.2	235.6	323.4	373.4	378.6	363.3	333.5
60°	359.3	346.4	291.6	206.6	185.7	210.2	290.8	345.2	348.4	331.9	303.3
62.5°	328.3	316.6	261.8	184.1	166.7	186.5	263.8	315.4	317.4	301.7	272.3
65°	296.4	285.6	232.8	160.3	148.6	164.3	234.8	284.4	286.4	268.6	242.1
67.5°	263.4	254.5	201.8	142.2	131.3	143.4	205.8	252.9	254.1	236.8	212.7
70°	230.4	222.7	174.4	122.4	114.4	122.8	177.2	218.3	220.7	202.2	182.9
72.5°	196.5	190.5	147.8	101.9	94.6	101.9	149.4	186.5	188.1	172.8	153.9
75°	162.3	157.9	120.8	81.8	76.1	81.4	121.6	154.7	154.7	140.2	125.3
77.5°	129.3	126.1	92.6	62.8	58.8	62.0	93.0	122.4	121.6	110.4	98.7
80°	96.7	94.2	66.5	45.5	42.7	44.3	66.5	90.6	90.6	82.6	68.5
82.5°	69.3	66.5	43.9	29.8	28.2	29.0	43.1	63.2	64.4	58.4	46.3
85°	45.9	39.5	23.8	16.5	15.3	15.7	22.6	36.7	40.3	33.8	24.2
87.5°	20.1	13.3	6.0	2.4	1.2	1.6	4.8	11.7	15.3	10.1	3.2
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°	750.8	750.8	750.8	750.8	750.8	750.8
2.5°	753.2	746.7	749.1	750.8	749.1	756.4
5°	752.4	749.5	749.1	751.2	747.9	755.2
7.5°	751.2	749.5	749.1	749.9	745.9	752.8
10°	748.3	745.9	746.7	747.9	742.7	749.1
12.5°	743.1	740.7	741.1	745.1	737.9	743.5
15°	734.2	731.4	734.2	738.7	732.2	737.1
17.5°	722.6	718.1	723.0	729.8	725.0	729.4
20°	707.7	700.8	706.0	718.5	714.1	719.7
22.5°	689.5	681.1	686.3	704.4	703.2	709.3
25°	669.0	658.9	666.2	688.3	690.7	696.4
27.5°	646.0	634.8	644.4	670.6	676.2	682.7
30°	621.1	609.0	620.3	650.9	659.3	666.2
32.5°	595.3	582.0	594.9	628.7	640.8	649.7
35°	568.3	554.6	569.1	605.8	620.3	629.1
37.5°	539.3	526.0	541.7	581.6	598.9	607.8
40°	509.5	494.6	512.3	553.0	576.0	586.4
42.5°	478.9	460.4	482.1	526.0	551.0	561.5
45°	444.7	418.9	448.3	497.4	523.6	535.3
47.5°	410.4	384.6	414.4	466.8	495.0	505.5
50°	377.4	355.2	379.0	433.4	466.0	479.3
52.5°	347.2	329.1	349.2	400.8	436.2	449.5
55°	319.0	304.9	321.4	368.5	404.8	420.1
57.5°	292.4	283.5	294.8	337.9	375.8	390.3
60°	267.4	261.4	269.4	307.7	341.5	359.3
62.5°	242.9	239.6	245.7	275.9	309.7	328.3
65°	219.1	218.3	221.5	248.1	276.3	296.4
67.5°	195.3	194.9	197.0	218.7	243.7	263.4
70°	171.6	174.0	172.8	186.9	211.0	230.4
72.5°	147.4	151.0	149.0	157.9	181.2	196.5
75°	120.4	125.3	121.2	131.3	145.8	162.3
77.5°	92.6	97.9	93.0	101.9	117.6	129.3
80°	66.5	71.3	67.3	74.1	87.8	96.7
82.5°	41.9	45.5	42.3	49.1	62.8	69.3
85°	18.5	20.5	21.3	26.6	38.7	45.9
87.5°	0.8	0.4	0.8	5.2	13.7	20.1
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)