

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: P520594

Luminaire Tested: **4WSLA-50-L935-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520594  
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-L935-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

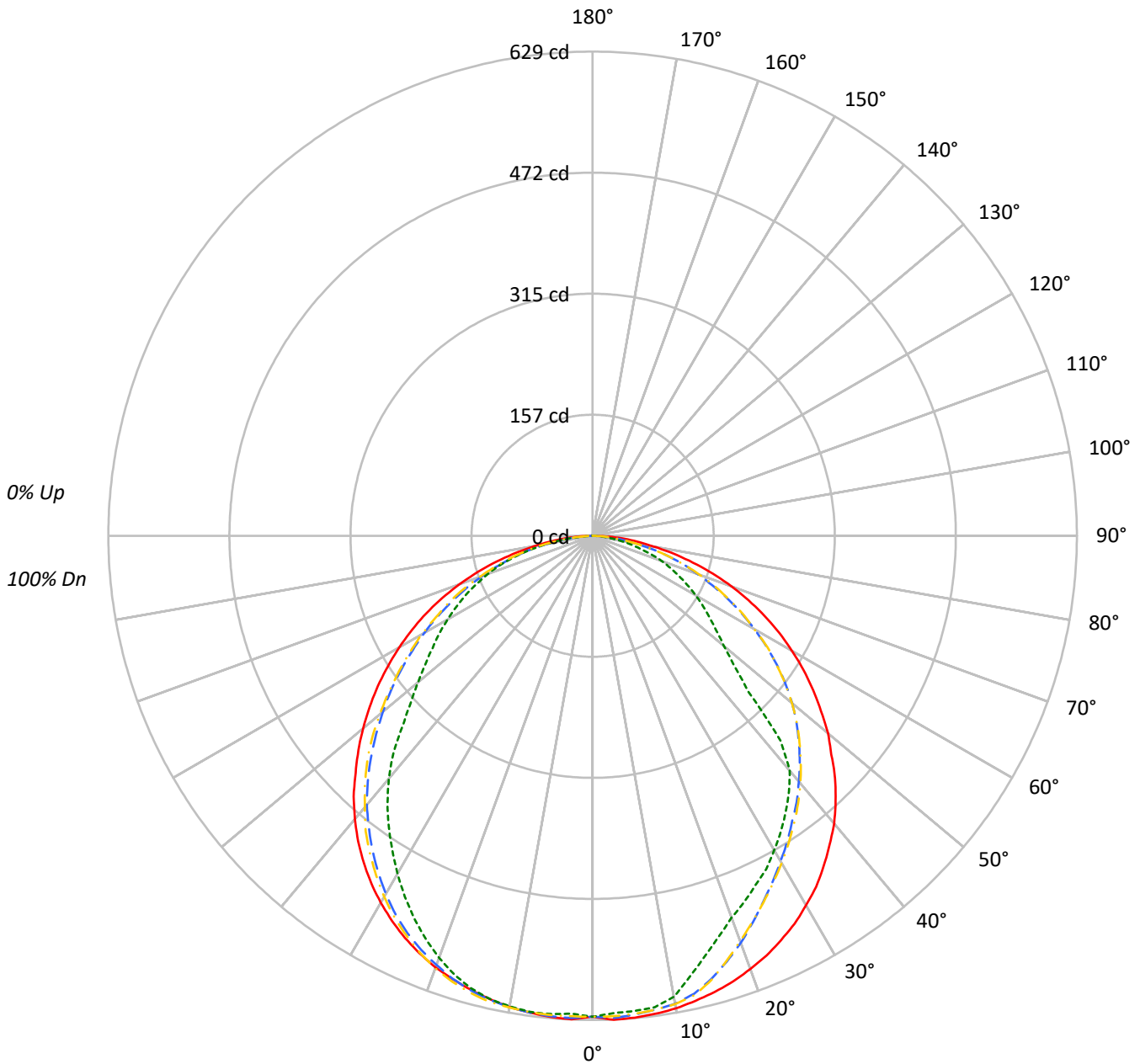
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1676.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 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°	3363	3363	3363	3363
5°	3395	3348	3390	3370
10°	3407	3323	3398	3392
15°	3418	3147	3403	3392
20°	3430	3023	3417	3340
25°	3441	2973	3423	3256
30°	3445	2931	3420	3150
35°	3439	2874	3405	3032
40°	3429	2798	3374	2892
45°	3390	2174	3314	2653
50°	3340	1860	3258	2475
55°	3280	1742	3195	2381
60°	3218	1663	3120	2341
65°	3142	1575	3035	2314
70°	3017	1498	2891	2279
75°	2809	1316	2676	2167
80°	2492	1100	2337	1838
85°	2359	784	2069	1056



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.4	3.5
10°-20°	169.3	10.1
20°-30°	253.0	15.1
30°-40°	301.2	18.0
40°-50°	301.0	18.0
50°-60°	259.0	15.5
60°-70°	195.0	11.6
70°-80°	111.1	6.6
80°-90°	27.0	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°	481.7	28.7
0°-40°	782.8	46.7
0°-60°	1342.9	80.1
0°-90°	1676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	625	625	625	625	625	
5°	628	620	627	624	628	60
15°	613	565	611	609	613	173
25°	580	501	576	548	580	267
35°	524	437	518	462	524	328
45°	445	286	435	349	445	343
55°	350	186	340	254	350	313
65°	247	124	238	182	247	244
75°	135	63	129	104	135	143
85°	38	13	34	17	38	42
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°	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	629.4	623.8	627.1	626.1	620.7	622.7	624.8	622.7	628.8	623.4	627.1
5°	628.4	622.4	624.4	622.4	619.7	620.4	623.4	621.4	627.4	621.7	626.4
7.5°	626.4	619.1	621.1	620.1	617.7	618.1	621.1	619.4	624.8	619.4	624.8
10°	623.4	615.7	617.4	613.0	608.0	611.7	617.7	616.0	621.7	615.7	621.7
12.5°	618.7	611.0	609.3	594.9	585.9	592.9	611.4	611.4	616.7	611.0	617.4
15°	613.4	605.0	595.9	574.1	564.8	571.8	597.3	606.0	610.7	605.0	611.4
17.5°	607.0	597.3	579.8	554.4	545.7	552.7	578.8	597.9	604.0	597.9	603.6
20°	598.9	587.6	562.8	533.6	527.9	534.3	560.4	588.2	596.6	589.2	593.3
22.5°	590.2	576.5	543.6	517.5	514.8	518.8	542.6	576.2	587.2	579.5	582.2
25°	579.5	563.4	524.5	502.8	500.7	503.1	525.2	562.1	576.5	568.4	569.5
27.5°	568.1	550.7	506.4	490.4	488.3	489.3	507.8	546.3	564.1	556.0	554.4
30°	554.4	535.6	488.3	473.6	471.6	475.3	491.0	530.2	550.3	542.3	537.3
32.5°	540.6	519.2	470.6	459.2	455.2	458.5	473.6	513.5	535.3	526.9	518.5
35°	523.5	501.7	452.1	440.7	437.4	441.1	456.2	496.1	518.2	509.8	498.4
37.5°	505.8	483.3	435.4	425.0	419.0	423.3	438.4	478.0	500.4	491.7	477.6
40°	488.0	463.9	416.6	405.9	398.2	404.6	420.0	458.8	480.3	472.3	456.2
42.5°	467.2	444.4	398.2	383.1	361.3	381.8	400.2	439.7	459.5	451.8	432.4
45°	445.4	423.7	378.7	342.2	285.6	345.6	380.1	419.6	435.4	428.0	406.9
47.5°	420.6	402.2	359.0	303.3	248.4	306.7	359.6	400.5	412.6	404.6	381.1
50°	398.9	380.8	338.2	270.5	222.2	274.2	337.9	379.1	389.1	381.8	355.6
52.5°	374.1	358.3	315.7	241.3	202.8	245.0	315.1	357.0	365.0	356.3	330.1
55°	349.6	335.5	291.9	215.5	185.7	218.9	291.3	334.2	340.5	330.5	303.3
57.5°	324.8	312.0	267.5	192.4	169.9	196.1	269.1	310.7	315.1	302.3	277.5
60°	299.0	288.2	242.7	171.9	154.5	175.0	242.0	287.2	289.9	276.2	252.4
62.5°	273.2	263.4	217.9	153.2	138.8	155.2	219.5	262.4	264.1	251.0	226.6
65°	246.7	237.6	193.7	133.4	123.7	136.7	195.4	236.6	238.3	223.6	201.4
67.5°	219.2	211.8	167.9	118.3	109.3	119.3	171.3	210.5	211.5	197.1	177.0
70°	191.7	185.3	145.1	101.9	95.2	102.2	147.5	181.7	183.7	168.3	152.2
72.5°	163.6	158.5	123.0	84.8	78.8	84.8	124.3	155.2	156.5	143.8	128.0
75°	135.1	131.4	100.6	68.0	63.3	67.7	101.2	128.7	128.7	116.6	104.2
77.5°	107.6	104.9	77.1	52.3	48.9	51.6	77.4	101.9	101.2	91.8	82.1
80°	80.4	78.4	55.3	37.9	35.5	36.9	55.3	75.4	75.4	68.7	57.0
82.5°	57.6	55.3	36.5	24.8	23.5	24.1	35.9	52.6	53.6	48.6	38.5
85°	38.2	32.8	19.8	13.7	12.7	13.1	18.8	30.5	33.5	28.2	20.1
87.5°	16.8	11.1	5.0	2.0	1.0	1.3	4.0	9.7	12.7	8.4	2.7
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°	624.8	624.8	624.8	624.8	624.8	624.8
2.5°	626.8	621.4	623.4	624.8	623.4	629.4
5°	626.1	623.8	623.4	625.1	622.4	628.4
7.5°	625.1	623.8	623.4	624.1	620.7	626.4
10°	622.7	620.7	621.4	622.4	618.1	623.4
12.5°	618.4	616.4	616.7	620.1	614.0	618.7
15°	611.0	608.7	611.0	614.7	609.3	613.4
17.5°	601.3	597.6	601.6	607.3	603.3	607.0
20°	588.9	583.2	587.6	597.9	594.3	598.9
22.5°	573.8	566.8	571.1	586.2	585.2	590.2
25°	556.7	548.3	554.4	572.8	574.8	579.5
27.5°	537.6	528.2	536.3	558.1	562.8	568.1
30°	516.8	506.8	516.2	541.6	548.7	554.4
32.5°	495.4	484.3	495.0	523.2	533.3	540.6
35°	472.9	461.5	473.6	504.1	516.2	523.5
37.5°	448.8	437.7	450.8	484.0	498.4	505.8
40°	424.0	411.6	426.3	460.2	479.3	488.0
42.5°	398.5	383.1	401.2	437.7	458.5	467.2
45°	370.0	348.6	373.0	413.9	435.7	445.4
47.5°	341.5	320.1	344.9	388.5	411.9	420.6
50°	314.1	295.6	315.4	360.6	387.8	398.9
52.5°	288.9	273.8	290.6	333.5	363.0	374.1
55°	265.5	253.7	267.5	306.7	336.8	349.6
57.5°	243.3	236.0	245.3	281.2	312.7	324.8
60°	222.6	217.5	224.2	256.1	284.2	299.0
62.5°	202.1	199.4	204.5	229.6	257.7	273.2
65°	182.3	181.7	184.3	206.5	229.9	246.7
67.5°	162.6	162.2	163.9	182.0	202.8	219.2
70°	142.8	144.8	143.8	155.5	175.6	191.7
72.5°	122.7	125.7	124.0	131.4	150.8	163.6
75°	100.2	104.2	100.9	109.3	121.3	135.1
77.5°	77.1	81.4	77.4	84.8	97.9	107.6
80°	55.3	59.3	56.0	61.7	73.1	80.4
82.5°	34.9	37.9	35.2	40.9	52.3	57.6
85°	15.4	17.1	17.8	22.1	32.2	38.2
87.5°	0.7	0.3	0.7	4.4	11.4	16.8
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)