

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: P520597

Luminaire Tested: **4WSLA-50-L940-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520597  
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-L940-UNV-U  
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

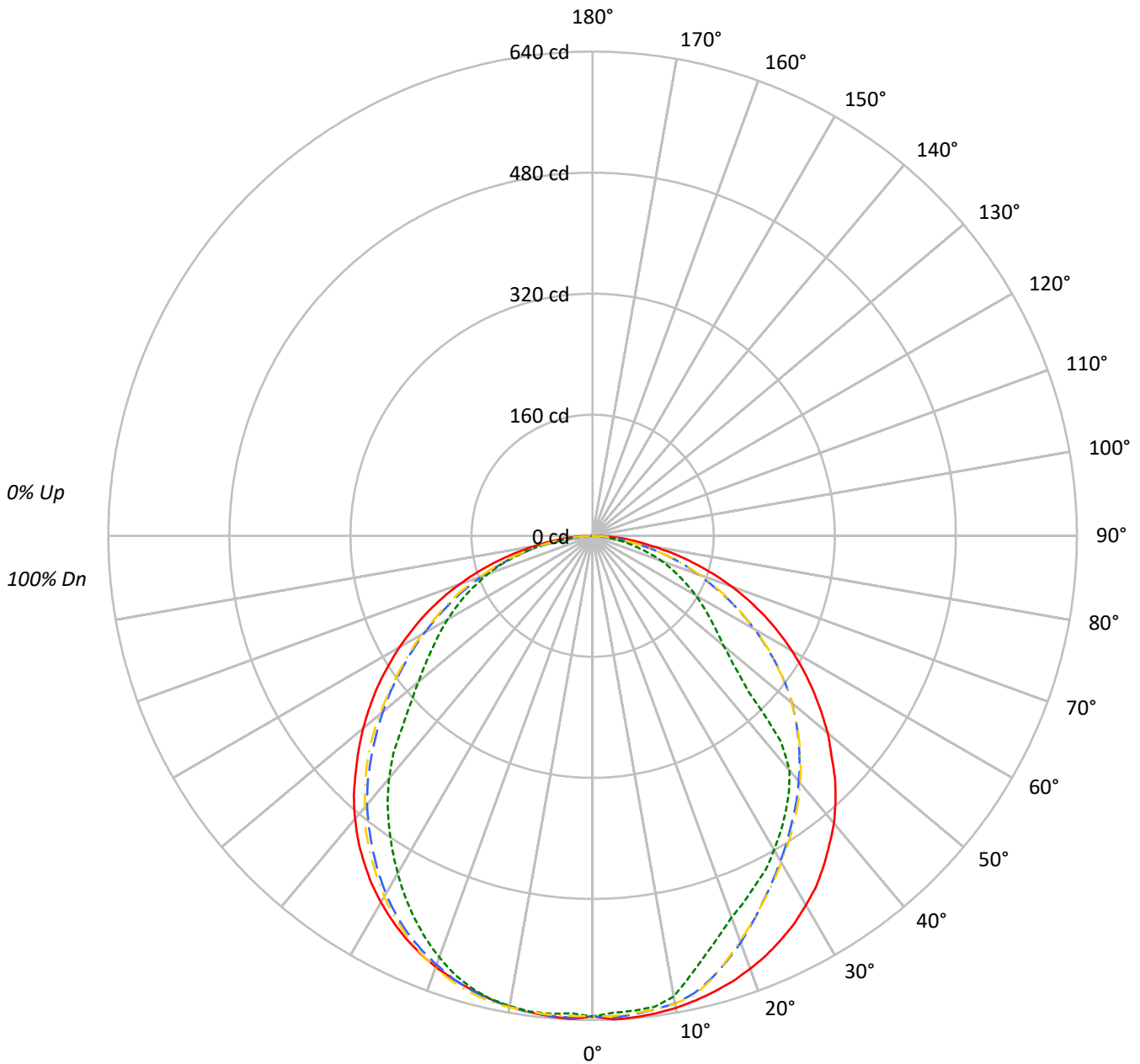
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1704.0 lumens  
Efficiency: N/A  
Efficacy: 109.2 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				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	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°	3419	3419	3419	3419
5°	3452	3404	3446	3426
10°	3464	3378	3454	3449
15°	3475	3199	3460	3448
20°	3488	3074	3474	3396
25°	3499	3023	3480	3311
30°	3503	2980	3477	3202
35°	3497	2922	3461	3083
40°	3486	2844	3431	2940
45°	3447	2210	3369	2697
50°	3395	1891	3312	2517
55°	3335	1772	3248	2421
60°	3272	1691	3173	2381
65°	3194	1601	3086	2352
70°	3067	1523	2938	2316
75°	2855	1339	2722	2204
80°	2535	1119	2377	1869
85°	2396	797	2106	1074



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	3.5
10°-20°	172.1	10.1
20°-30°	257.2	15.1
30°-40°	306.2	18.0
40°-50°	306.1	18.0
50°-60°	263.4	15.5
60°-70°	198.2	11.6
70°-80°	113.0	6.6
80°-90°	27.5	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°	489.7	28.7
0°-40°	795.9	46.7
0°-60°	1365.3	80.1
0°-90°	1704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	635	635	635	635	635	
5°	639	630	638	634	639	61
15°	624	574	621	619	624	176
25°	589	509	586	558	589	272
35°	532	445	527	469	532	333
45°	453	290	443	354	453	349
55°	355	189	346	258	355	318
65°	251	126	242	185	251	248
75°	137	64	131	106	137	145
85°	39	13	34	17	39	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°	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2	635.2
2.5°	640.0	634.2	637.6	636.6	631.1	633.2	635.2	633.2	639.3	633.8	637.6
5°	638.9	632.8	634.9	632.8	630.1	630.8	633.8	631.8	637.9	632.1	636.9
7.5°	636.9	629.4	631.4	630.4	628.0	628.4	631.4	629.7	635.2	629.7	635.2
10°	633.8	626.0	627.7	623.3	618.2	621.9	628.0	626.3	632.1	626.0	632.1
12.5°	629.1	621.2	619.5	604.9	595.7	602.8	621.6	621.6	627.0	621.2	627.7
15°	623.6	615.1	605.9	583.7	574.2	581.4	607.3	616.1	620.9	615.1	621.6
17.5°	617.1	607.3	589.5	563.6	554.8	561.9	588.5	607.9	614.1	607.9	613.7
20°	609.0	597.4	572.2	542.5	536.7	543.2	569.8	598.1	606.6	599.1	603.2
22.5°	600.1	586.1	552.7	526.1	523.4	527.5	551.7	585.8	597.0	589.2	591.9
25°	589.2	572.8	533.3	511.2	509.1	511.5	534.0	571.5	586.1	577.9	579.0
27.5°	577.6	559.9	514.9	498.5	496.5	497.5	516.3	555.5	573.5	565.3	563.6
30°	563.6	544.6	496.5	481.5	479.5	483.2	499.2	539.1	559.5	551.4	546.3
32.5°	549.7	527.9	478.4	466.9	462.8	466.2	481.5	522.1	544.2	535.7	527.2
35°	532.3	510.1	459.7	448.1	444.7	448.5	463.8	504.3	526.8	518.3	506.7
37.5°	514.2	491.4	442.7	432.1	426.0	430.4	445.7	485.9	508.8	499.9	485.6
40°	496.2	471.6	423.6	412.7	404.8	411.3	427.0	466.5	488.3	480.1	463.8
42.5°	475.0	451.9	404.8	389.5	367.3	388.1	406.9	447.1	467.2	459.4	439.6
45°	452.9	430.7	385.1	347.9	290.3	351.3	386.4	426.6	442.7	435.2	413.7
47.5°	427.7	408.9	365.0	308.4	252.5	311.8	365.6	407.2	419.5	411.3	387.5
50°	405.5	387.1	343.8	275.0	225.9	278.7	343.5	385.4	395.6	388.1	361.6
52.5°	380.3	364.3	321.0	245.4	206.2	249.1	320.3	362.9	371.1	362.2	335.7
55°	355.4	341.1	296.8	219.1	188.8	222.5	296.1	339.7	346.2	336.0	308.4
57.5°	330.2	317.3	271.9	195.6	172.8	199.4	273.6	315.9	320.3	307.4	282.2
60°	304.0	293.1	246.7	174.8	157.1	177.9	246.0	292.0	294.8	280.8	256.6
62.5°	277.7	267.8	221.5	155.7	141.1	157.8	223.2	266.8	268.5	255.2	230.4
65°	250.8	241.6	197.0	135.6	125.7	139.0	198.7	240.6	242.3	227.3	204.8
67.5°	222.9	215.4	170.7	120.3	111.1	121.3	174.1	214.0	215.0	200.4	179.9
70°	194.9	188.4	147.6	103.6	96.8	103.9	149.9	184.7	186.7	171.1	154.7
72.5°	166.3	161.2	125.1	86.2	80.1	86.2	126.4	157.8	159.1	146.2	130.2
75°	137.3	133.6	102.2	69.2	64.4	68.8	102.9	130.9	130.9	118.6	106.0
77.5°	109.4	106.7	78.4	53.2	49.8	52.5	78.7	103.6	102.9	93.4	83.5
80°	81.8	79.7	56.2	38.5	36.1	37.5	56.2	76.7	76.7	69.9	57.9
82.5°	58.6	56.2	37.1	25.2	23.9	24.5	36.5	53.5	54.5	49.4	39.2
85°	38.8	33.4	20.1	14.0	12.9	13.3	19.1	31.0	34.1	28.6	20.4
87.5°	17.0	11.2	5.1	2.0	1.0	1.4	4.1	9.9	12.9	8.5	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°	635.2	635.2	635.2	635.2	635.2	635.2
2.5°	637.2	631.8	633.8	635.2	633.8	640.0
5°	636.6	634.2	633.8	635.5	632.8	638.9
7.5°	635.5	634.2	633.8	634.5	631.1	636.9
10°	633.2	631.1	631.8	632.8	628.4	633.8
12.5°	628.7	626.7	627.0	630.4	624.3	629.1
15°	621.2	618.8	621.2	625.0	619.5	623.6
17.5°	611.3	607.6	611.7	617.5	613.4	617.1
20°	598.7	592.9	597.4	607.9	604.2	609.0
22.5°	583.4	576.2	580.7	596.0	595.0	600.1
25°	566.0	557.5	563.6	582.4	584.4	589.2
27.5°	546.6	537.1	545.2	567.4	572.2	577.6
30°	525.5	515.2	524.8	550.7	557.8	563.6
32.5°	503.7	492.4	503.3	531.9	542.2	549.7
35°	480.8	469.2	481.5	512.5	524.8	532.3
37.5°	456.3	445.0	458.3	492.1	506.7	514.2
40°	431.1	418.5	433.5	467.9	487.3	496.2
42.5°	405.2	389.5	407.9	445.0	466.2	475.0
45°	376.2	354.4	379.3	420.9	443.0	452.9
47.5°	347.2	325.4	350.7	395.0	418.8	427.7
50°	319.3	300.6	320.7	366.7	394.3	405.5
52.5°	293.7	278.4	295.4	339.1	369.1	380.3
55°	269.9	258.0	271.9	311.8	342.5	355.4
57.5°	247.4	239.9	249.4	285.9	317.9	330.2
60°	226.3	221.2	228.0	260.3	289.0	304.0
62.5°	205.5	202.8	207.9	233.4	262.1	277.7
65°	185.4	184.7	187.4	209.9	233.8	250.8
67.5°	165.3	164.9	166.6	185.0	206.2	222.9
70°	145.2	147.2	146.2	158.1	178.6	194.9
72.5°	124.7	127.8	126.1	133.6	153.3	166.3
75°	101.9	106.0	102.6	111.1	123.4	137.3
77.5°	78.4	82.8	78.7	86.2	99.5	109.4
80°	56.2	60.3	56.9	62.7	74.3	81.8
82.5°	35.4	38.5	35.8	41.6	53.2	58.6
85°	15.7	17.4	18.1	22.5	32.7	38.8
87.5°	0.7	0.3	0.7	4.4	11.6	17.0
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)