

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: P520591

Luminaire Tested: **4WSLA-50-L930-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520591
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-L930-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

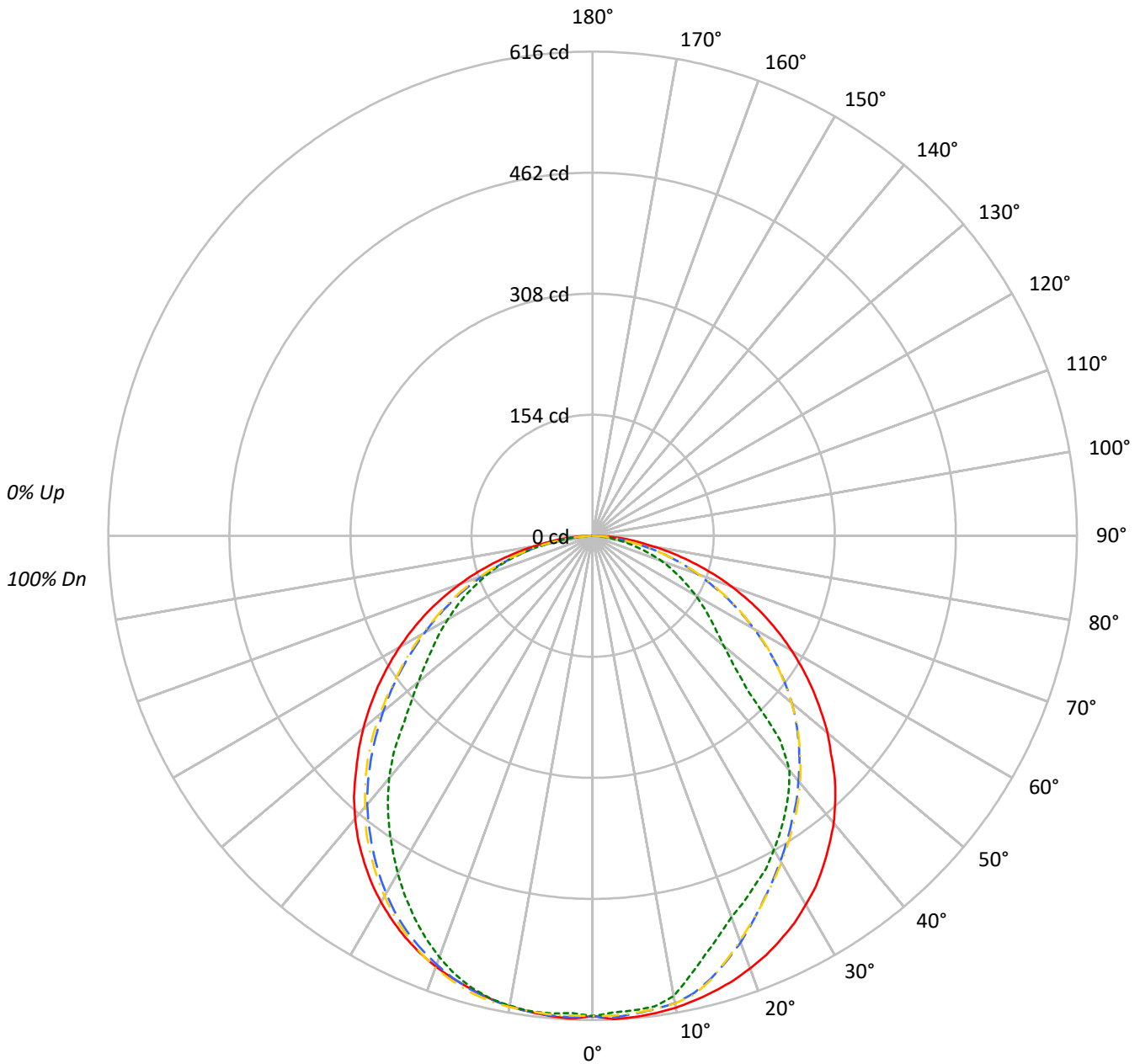
Lumens per Lamp: N/A
Luminaire Lumens: 1639.0 lumens
Efficiency: N/A
Efficacy: 105.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 15.6
Input Voltage (V): NR
Input Current (A_{in}): 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

TEST NUMBER: P520591

CATALOG NUMBER: 4WSLA-50-L930-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520591

CATALOG NUMBER: 4WSLA-50-L930-UNV-U

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	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°	3288	3288	3288	3288
5°	3320	3274	3315	3296
10°	3332	3249	3323	3317
15°	3342	3077	3327	3316
20°	3355	2956	3341	3266
25°	3365	2908	3348	3184
30°	3369	2866	3345	3080
35°	3364	2810	3329	2965
40°	3353	2736	3300	2828
45°	3315	2126	3241	2595
50°	3265	1819	3186	2421
55°	3208	1704	3125	2328
60°	3147	1626	3052	2289
65°	3072	1540	2967	2263
70°	2950	1465	2826	2228
75°	2747	1287	2618	2119
80°	2439	1075	2284	1798
85°	2309	772	2025	1031



TEST NUMBER: P520591

CATALOG NUMBER: 4WSLA-50-L930-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	3.5
10°-20°	165.6	10.1
20°-30°	247.4	15.1
30°-40°	294.5	18.0
40°-50°	294.4	18.0
50°-60°	253.3	15.5
60°-70°	190.7	11.6
70°-80°	108.6	6.6
80°-90°	26.4	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°	471.0	28.7
0°-40°	765.6	46.7
0°-60°	1313.2	80.1
0°-90°	1639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	611	611	611	611	611	
5°	615	606	614	610	615	58
15°	600	552	597	595	600	169
25°	567	490	564	536	567	261
35°	512	428	507	451	512	320
45°	436	279	426	341	436	335
55°	342	182	333	248	342	306
65°	241	121	233	178	241	238
75°	132	62	126	102	132	140
85°	37	12	33	17	37	41
90°	0	0	0	0	0	



TEST NUMBER: P520591

CATALOG NUMBER: 4WSLA-50-L930-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	615.6	610.0	613.3	612.3	607.0	609.0	611.0	609.0	614.9	609.7	613.3
5°	614.6	608.7	610.6	608.7	606.0	606.7	609.7	607.7	613.6	608.0	612.6
7.5°	612.6	605.4	607.4	606.4	604.1	604.4	607.4	605.7	611.0	605.7	611.0
10°	609.7	602.1	603.8	599.5	594.6	598.2	604.1	602.4	608.0	602.1	608.0
12.5°	605.1	597.5	595.9	581.8	572.9	579.8	597.9	597.9	603.1	597.5	603.8
15°	599.8	591.6	582.8	561.5	552.3	559.2	584.1	592.6	597.2	591.6	597.9
17.5°	593.6	584.1	567.0	542.1	533.6	540.5	566.1	584.7	590.6	584.7	590.3
20°	585.7	574.6	550.3	521.8	516.2	522.5	548.0	575.2	583.4	576.2	580.2
22.5°	577.2	563.8	531.6	506.1	503.5	507.4	530.7	563.4	574.3	566.7	569.3
25°	566.7	551.0	513.0	491.7	489.7	492.0	513.6	549.7	563.8	555.9	556.9
27.5°	555.6	538.5	495.3	479.5	477.6	478.5	496.6	534.3	551.6	543.8	542.1
30°	542.1	523.8	477.6	463.1	461.2	464.8	480.2	518.5	538.2	530.3	525.4
32.5°	528.7	507.7	460.2	449.0	445.1	448.4	463.1	502.1	523.5	515.3	507.1
35°	512.0	490.7	442.2	431.0	427.7	431.3	446.1	485.1	506.7	498.5	487.4
37.5°	494.6	472.6	425.8	415.6	409.7	414.0	428.7	467.4	489.4	480.8	467.1
40°	477.2	453.6	407.4	396.9	389.4	395.6	410.7	448.7	469.7	461.8	446.1
42.5°	456.9	434.6	389.4	374.6	353.3	373.3	391.4	430.0	449.4	441.8	422.8
45°	435.6	414.3	370.4	334.7	279.3	337.9	371.7	410.4	425.8	418.6	397.9
47.5°	411.4	393.3	351.0	296.6	242.9	299.9	351.7	391.7	403.5	395.6	372.7
50°	390.0	372.3	330.7	264.5	217.3	268.1	330.4	370.7	380.5	373.3	347.8
52.5°	365.8	350.4	308.8	236.0	198.3	239.6	308.1	349.1	356.9	348.4	322.9
55°	341.9	328.1	285.5	210.8	181.6	214.0	284.8	326.8	333.0	323.2	296.6
57.5°	317.6	305.2	261.6	188.1	166.2	191.7	263.2	303.8	308.1	295.6	271.4
60°	292.4	281.9	237.3	168.1	151.1	171.1	236.7	280.9	283.5	270.1	246.8
62.5°	267.1	257.6	213.1	149.8	135.7	151.8	214.7	256.6	258.3	245.5	221.6
65°	241.2	232.4	189.5	130.5	120.9	133.7	191.1	231.4	233.0	218.6	197.0
67.5°	214.4	207.2	164.2	115.7	106.9	116.7	167.5	205.8	206.8	192.7	173.1
70°	187.5	181.3	141.9	99.6	93.1	100.0	144.2	177.7	179.6	164.5	148.8
72.5°	160.0	155.0	120.3	82.9	77.0	82.9	121.6	151.8	153.1	140.6	125.2
75°	132.1	128.5	98.3	66.5	61.9	66.2	99.0	125.9	125.9	114.1	101.9
77.5°	105.2	102.6	75.4	51.1	47.9	50.5	75.7	99.6	99.0	89.8	80.3
80°	78.7	76.7	54.1	37.0	34.7	36.1	54.1	73.7	73.7	67.2	55.7
82.5°	56.4	54.1	35.7	24.3	22.9	23.6	35.1	51.5	52.4	47.5	37.7
85°	37.4	32.1	19.3	13.4	12.5	12.8	18.4	29.8	32.8	27.5	19.7
87.5°	16.4	10.8	4.9	2.0	1.0	1.3	3.9	9.5	12.5	8.2	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520591

CATALOG NUMBER: 4WSLA-50-L930-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	611.0	611.0	611.0	611.0	611.0	611.0
2.5°	612.9	607.7	609.7	611.0	609.7	615.6
5°	612.3	610.0	609.7	611.3	608.7	614.6
7.5°	611.3	610.0	609.7	610.3	607.0	612.6
10°	609.0	607.0	607.7	608.7	604.4	609.7
12.5°	604.7	602.8	603.1	606.4	600.5	605.1
15°	597.5	595.2	597.5	601.1	595.9	599.8
17.5°	588.0	584.4	588.3	593.9	590.0	593.6
20°	575.9	570.3	574.6	584.7	581.1	585.7
22.5°	561.1	554.3	558.5	573.3	572.3	577.2
25°	544.4	536.2	542.1	560.2	562.1	566.7
27.5°	525.7	516.6	524.4	545.7	550.3	555.6
30°	505.4	495.6	504.8	529.7	536.6	542.1
32.5°	484.4	473.6	484.1	511.7	521.5	528.7
35°	462.5	451.3	463.1	493.0	504.8	512.0
37.5°	438.9	428.1	440.9	473.3	487.4	494.6
40°	414.6	402.5	416.9	450.0	468.7	477.2
42.5°	389.7	374.6	392.3	428.1	448.4	456.9
45°	361.9	340.9	364.8	404.8	426.1	435.6
47.5°	334.0	313.0	337.3	379.9	402.8	411.4
50°	307.1	289.1	308.4	352.7	379.2	390.0
52.5°	282.5	267.8	284.2	326.1	355.0	365.8
55°	259.6	248.1	261.6	299.9	329.4	341.9
57.5°	238.0	230.8	239.9	275.0	305.8	317.6
60°	217.6	212.7	219.3	250.4	277.9	292.4
62.5°	197.6	195.0	199.9	224.5	252.1	267.1
65°	178.3	177.7	180.3	201.9	224.9	241.2
67.5°	159.0	158.6	160.3	178.0	198.3	214.4
70°	139.6	141.6	140.6	152.1	171.8	187.5
72.5°	120.0	122.9	121.3	128.5	147.5	160.0
75°	98.0	101.9	98.7	106.9	118.7	132.1
77.5°	75.4	79.6	75.7	82.9	95.7	105.2
80°	54.1	58.0	54.7	60.3	71.5	78.7
82.5°	34.1	37.0	34.4	40.0	51.1	56.4
85°	15.1	16.7	17.4	21.6	31.5	37.4
87.5°	0.7	0.3	0.7	4.3	11.1	16.4
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)