

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: P520600

Luminaire Tested: **4WSLA-50-L950-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520600
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-L950-UNV-U
Description: 4 FOOT, 500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

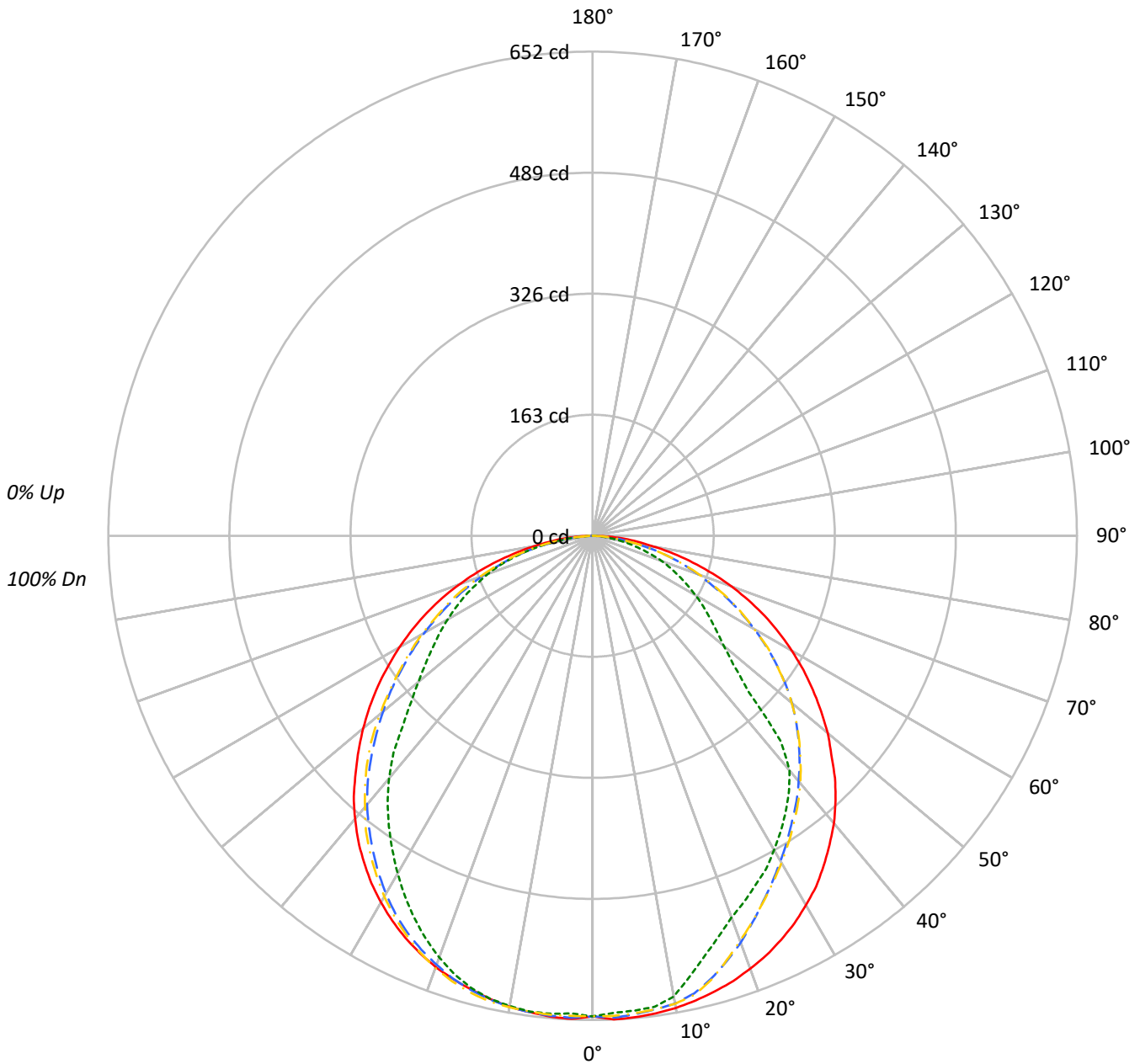
Lumens per Lamp: N/A
Luminaire Lumens: 1736.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

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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°	3483	3483	3483	3483
5°	3516	3468	3511	3491
10°	3529	3442	3519	3514
15°	3540	3260	3524	3513
20°	3553	3132	3540	3460
25°	3565	3080	3546	3373
30°	3568	3036	3543	3262
35°	3563	2977	3526	3141
40°	3551	2897	3495	2995
45°	3512	2251	3433	2748
50°	3459	1927	3375	2564
55°	3398	1804	3309	2466
60°	3334	1722	3232	2425
65°	3254	1631	3143	2397
70°	3125	1552	2993	2360
75°	2909	1364	2772	2246
80°	2582	1141	2421	1903
85°	2445	815	2143	1093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	3.5
10°-20°	175.4	10.1
20°-30°	262.1	15.1
30°-40°	311.9	18.0
40°-50°	311.8	18.0
50°-60°	268.3	15.5
60°-70°	201.9	11.6
70°-80°	115.1	6.6
80°-90°	28.0	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°	498.9	28.7
0°-40°	810.9	46.7
0°-60°	1391.0	80.1
0°-90°	1736.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	647	647	647	647	647	
5°	651	642	650	646	651	62
15°	635	585	632	630	635	179
25°	600	519	597	568	600	277
35°	542	453	537	478	542	339
45°	461	296	451	361	461	355
55°	362	192	353	263	362	324
65°	256	128	247	188	256	252
75°	140	66	133	108	140	148
85°	40	13	35	18	40	43
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°	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	652.0	646.1	649.6	648.5	643.0	645.0	647.1	645.0	651.3	645.7	649.6
5°	650.9	644.7	646.8	644.7	641.9	642.6	645.7	643.7	649.9	644.0	648.9
7.5°	648.9	641.2	643.3	642.3	639.8	640.2	643.3	641.6	647.1	641.6	647.1
10°	645.7	637.7	639.5	635.0	629.8	633.6	639.8	638.1	644.0	637.7	644.0
12.5°	640.9	632.9	631.2	616.2	606.9	614.1	633.2	633.2	638.8	632.9	639.5
15°	635.3	626.6	617.3	594.7	585.0	592.3	618.7	627.7	632.5	626.6	633.2
17.5°	628.7	618.7	600.6	574.2	565.2	572.5	599.6	619.3	625.6	619.3	625.3
20°	620.4	608.6	582.9	552.7	546.8	553.4	580.5	609.3	618.0	610.3	614.5
22.5°	611.4	597.1	563.1	536.0	533.3	537.4	562.1	596.8	608.2	600.3	603.0
25°	600.3	583.6	543.3	520.8	518.7	521.1	544.0	582.2	597.1	588.8	589.8
27.5°	588.5	570.4	524.6	507.9	505.8	506.9	526.0	565.9	584.3	576.0	574.2
30°	574.2	554.8	505.8	490.6	488.5	492.3	508.6	549.2	570.1	561.7	556.5
32.5°	560.0	537.8	487.4	475.6	471.5	474.9	490.6	531.9	554.4	545.8	537.1
35°	542.3	519.7	468.3	456.5	453.1	456.9	472.5	513.8	536.7	528.0	516.2
37.5°	523.9	500.6	451.0	440.2	434.0	438.5	454.1	495.1	518.3	509.3	494.7
40°	505.5	480.5	431.5	420.4	412.4	419.0	435.0	475.3	497.5	489.2	472.5
42.5°	484.0	460.3	412.4	396.8	374.2	395.4	414.5	455.5	476.0	468.0	447.8
45°	461.4	438.8	392.3	354.5	295.8	357.9	393.7	434.7	451.0	443.3	421.5
47.5°	435.7	416.6	371.8	314.2	257.3	317.7	372.5	414.9	427.4	419.0	394.7
50°	413.1	394.4	350.3	280.2	230.2	284.0	349.9	392.6	403.1	395.4	368.3
52.5°	387.4	371.1	327.0	250.0	210.0	253.8	326.3	369.7	378.1	369.0	342.0
55°	362.1	347.5	302.4	223.2	192.3	226.7	301.7	346.1	352.7	342.3	314.2
57.5°	336.4	323.2	277.0	199.3	176.0	203.1	278.8	321.8	326.3	313.1	287.5
60°	309.7	298.6	251.4	178.1	160.0	181.2	250.7	297.5	300.3	286.1	261.4
62.5°	282.9	272.9	225.7	158.7	143.7	160.7	227.4	271.8	273.6	260.0	234.7
65°	255.5	246.1	200.7	138.2	128.1	141.6	202.4	245.1	246.8	231.6	208.6
67.5°	227.0	219.4	173.9	122.6	113.2	123.6	177.4	218.0	219.1	204.1	183.3
70°	198.6	192.0	150.3	105.5	98.6	105.9	152.8	188.2	190.2	174.3	157.6
72.5°	169.4	164.2	127.4	87.8	81.6	87.8	128.8	160.7	162.1	148.9	132.6
75°	139.9	136.1	104.2	70.5	65.6	70.1	104.8	133.3	133.3	120.8	108.0
77.5°	111.4	108.7	79.8	54.2	50.7	53.5	80.2	105.5	104.8	95.1	85.1
80°	83.3	81.2	57.3	39.2	36.8	38.2	57.3	78.1	78.1	71.2	59.0
82.5°	59.7	57.3	37.8	25.7	24.3	25.0	37.1	54.5	55.5	50.3	39.9
85°	39.6	34.0	20.5	14.2	13.2	13.5	19.4	31.6	34.7	29.2	20.8
87.5°	17.4	11.5	5.2	2.1	1.0	1.4	4.2	10.1	13.2	8.7	2.8
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°	647.1	647.1	647.1	647.1	647.1	647.1
2.5°	649.2	643.7	645.7	647.1	645.7	652.0
5°	648.5	646.1	645.7	647.5	644.7	650.9
7.5°	647.5	646.1	645.7	646.4	643.0	648.9
10°	645.0	643.0	643.7	644.7	640.2	645.7
12.5°	640.5	638.4	638.8	642.3	636.0	640.9
15°	632.9	630.5	632.9	636.7	631.2	635.3
17.5°	622.8	619.0	623.2	629.1	624.9	628.7
20°	610.0	604.1	608.6	619.3	615.5	620.4
22.5°	594.4	587.1	591.6	607.2	606.2	611.4
25°	576.6	568.0	574.2	593.3	595.4	600.3
27.5°	556.9	547.1	555.5	578.0	582.9	588.5
30°	535.3	524.9	534.6	561.0	568.3	574.2
32.5°	513.1	501.7	512.8	541.9	552.3	560.0
35°	489.9	478.1	490.6	522.1	534.6	542.3
37.5°	464.9	453.4	466.9	501.3	516.2	523.9
40°	439.2	426.3	441.6	476.7	496.5	505.5
42.5°	412.8	396.8	415.6	453.4	474.9	484.0
45°	383.3	361.1	386.4	428.8	451.3	461.4
47.5°	353.8	331.5	357.2	402.4	426.7	435.7
50°	325.3	306.2	326.7	373.6	401.7	413.1
52.5°	299.3	283.6	301.0	345.4	376.0	387.4
55°	275.0	262.8	277.0	317.7	348.9	362.1
57.5°	252.0	244.4	254.1	291.3	323.9	336.4
60°	230.5	225.3	232.3	265.2	294.4	309.7
62.5°	209.3	206.6	211.8	237.8	267.0	282.9
65°	188.9	188.2	190.9	213.9	238.2	255.5
67.5°	168.4	168.0	169.8	188.5	210.0	227.0
70°	147.9	150.0	148.9	161.1	181.9	198.6
72.5°	127.1	130.2	128.5	136.1	156.2	169.4
75°	103.8	108.0	104.5	113.2	125.7	139.9
77.5°	79.8	84.4	80.2	87.8	101.4	111.4
80°	57.3	61.4	58.0	63.9	75.7	83.3
82.5°	36.1	39.2	36.5	42.4	54.2	59.7
85°	16.0	17.7	18.4	22.9	33.3	39.6
87.5°	0.7	0.3	0.7	4.5	11.8	17.4
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)