

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: P520684

Luminaire Tested: **8WSLA-150-L850-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520684  
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: 8WSLA-150-L850-UNV-U  
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

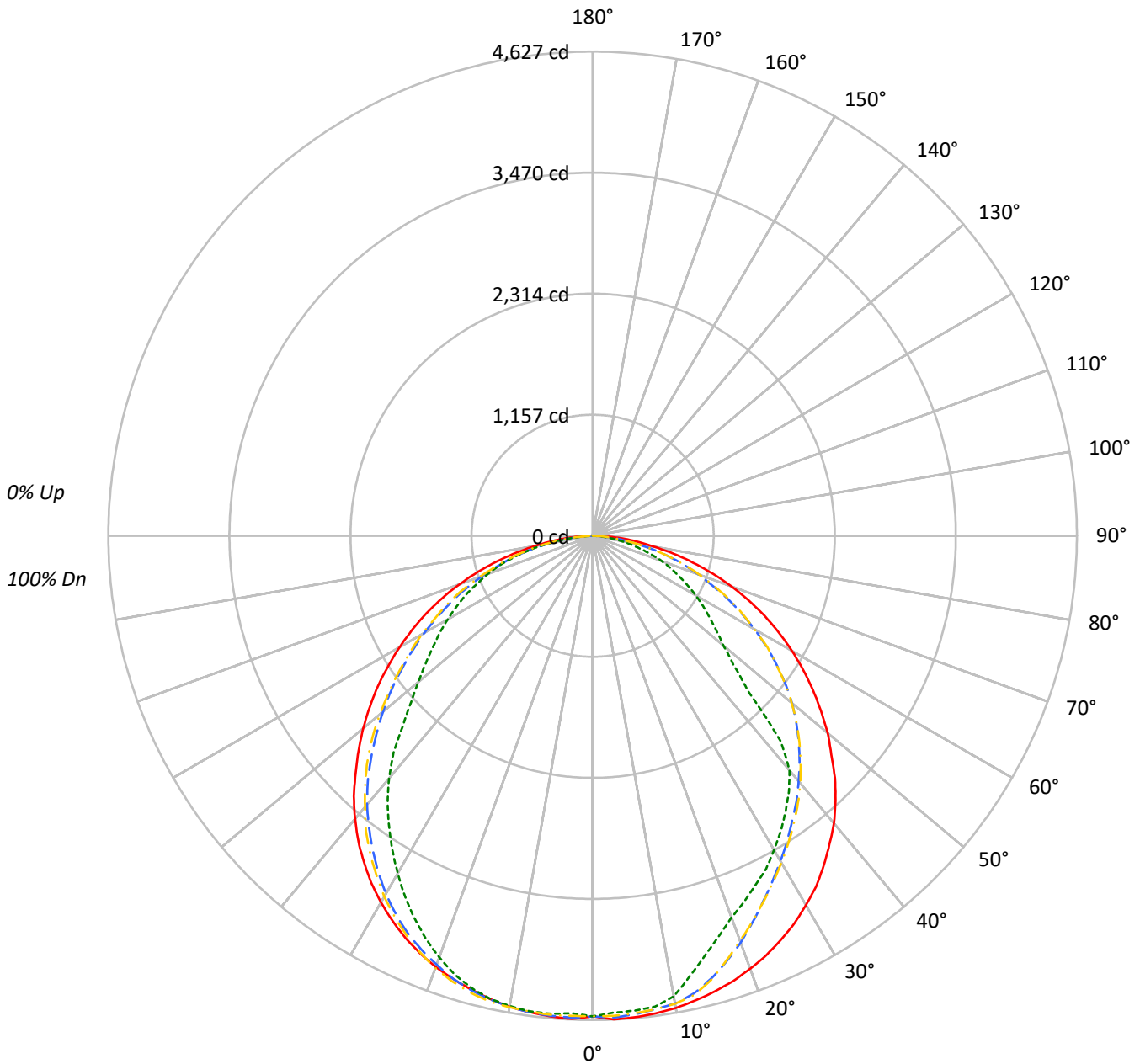
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12319.0 lumens  
Efficiency: N/A  
Efficacy: 131.6 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 93.6  
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°	12357	12357	12357	12357
5°	12478	12305	12458	12384
10°	12521	12211	12487	12467
15°	12560	11565	12505	12464
20°	12607	11111	12558	12275
25°	12647	10928	12582	11967
30°	12662	10771	12570	11574
35°	12641	10562	12512	11144
40°	12600	10281	12401	10627
45°	12460	7988	12179	9750
50°	12273	6838	11974	9097
55°	12055	6403	11743	8749
60°	11827	6112	11469	8605
65°	11545	5789	11153	8502
70°	11087	5505	10622	8374
75°	10322	4841	9836	7966
80°	9163	4046	8590	6758
85°	8670	2890	7608	3878



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	436.3	3.5
10°-20°	1244.5	10.1
20°-30°	1859.6	15.1
30°-40°	2213.6	18.0
40°-50°	2212.6	18.0
50°-60°	1903.9	15.5
60°-70°	1433.0	11.6
70°-80°	816.6	6.6
80°-90°	198.8	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°	3540.5	28.7
0°-40°	5754.1	46.7
0°-60°	9870.6	80.1
0°-90°	12319.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12319.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4592	4592	4592	4592	4592	
5°	4619	4555	4612	4585	4619	440
15°	4508	4151	4489	4474	4508	1274
25°	4260	3681	4237	4030	4260	1964
35°	3848	3215	3809	3392	3848	2408
45°	3274	2099	3200	2562	3274	2521
55°	2570	1365	2503	1865	2570	2297
65°	1813	909	1752	1335	1813	1791
75°	993	466	946	766	993	1051
85°	281	94	246	126	281	306
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°	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1
2.5°	4626.6	4584.7	4609.4	4602.0	4562.6	4577.3	4592.1	4577.3	4621.7	4582.3	4609.4
5°	4619.2	4574.9	4589.7	4574.9	4555.2	4560.1	4582.3	4567.5	4611.8	4569.9	4604.4
7.5°	4604.4	4550.2	4565.0	4557.6	4540.4	4542.8	4565.0	4552.7	4592.1	4552.7	4592.1
10°	4582.3	4525.6	4537.9	4505.9	4468.9	4496.0	4540.4	4528.1	4569.9	4525.6	4569.9
12.5°	4547.8	4491.1	4478.8	4372.9	4306.3	4358.1	4493.6	4493.6	4533.0	4491.1	4537.9
15°	4508.4	4446.8	4380.2	4220.1	4151.1	4202.9	4390.1	4454.2	4488.6	4446.8	4493.6
17.5°	4461.5	4390.1	4262.0	4074.8	4010.7	4062.4	4254.6	4395.0	4439.4	4395.0	4436.9
20°	4402.4	4318.7	4136.4	3922.0	3880.1	3926.9	4119.1	4323.6	4385.2	4331.0	4360.5
22.5°	4338.4	4237.4	3995.9	3803.8	3784.1	3813.6	3988.5	4234.9	4316.2	4259.5	4279.2
25°	4259.5	4141.3	3855.5	3695.4	3680.6	3697.8	3860.4	4131.4	4237.4	4178.2	4185.6
27.5°	4175.8	4047.7	3722.5	3604.2	3589.4	3596.8	3732.3	4015.6	4146.2	4087.1	4074.8
30°	4074.8	3936.8	3589.4	3481.0	3466.3	3493.4	3609.1	3897.4	4045.2	3986.1	3949.1
32.5°	3973.8	3816.1	3458.9	3375.1	3345.5	3370.2	3481.0	3774.2	3934.3	3872.8	3811.2
35°	3848.1	3688.0	3323.4	3239.6	3215.0	3242.1	3352.9	3646.1	3808.7	3747.1	3663.3
37.5°	3717.5	3552.5	3200.2	3123.8	3079.5	3111.5	3222.4	3513.1	3678.1	3614.1	3510.6
40°	3587.0	3409.6	3062.2	2983.4	2926.7	2973.5	3086.9	3372.6	3530.3	3471.2	3352.9
42.5°	3434.2	3266.7	2926.7	2815.9	2655.7	2806.0	2941.5	3232.2	3377.6	3320.9	3178.0
45°	3274.1	3114.0	2783.8	2515.3	2099.0	2540.0	2793.7	3084.4	3200.2	3146.0	2990.8
47.5°	3091.8	2956.3	2638.5	2229.5	1825.5	2254.2	2643.4	2944.0	3032.7	2973.5	2801.1
50°	2931.7	2798.6	2485.8	1988.1	1633.4	2015.2	2483.3	2786.3	2860.2	2806.0	2613.9
52.5°	2749.4	2633.6	2320.7	1773.8	1490.5	1800.9	2315.8	2623.7	2682.8	2618.8	2426.6
55°	2569.5	2466.0	2145.8	1584.1	1364.8	1608.7	2140.9	2456.2	2503.0	2429.1	2229.5
57.5°	2387.2	2293.6	1965.9	1414.1	1249.0	1441.2	1978.3	2283.7	2315.8	2222.2	2039.8
60°	2197.5	2118.7	1783.6	1263.8	1135.7	1286.0	1778.7	2111.3	2131.0	2030.0	1855.1
62.5°	2007.8	1936.4	1601.3	1125.9	1019.9	1140.6	1613.6	1929.0	1941.3	1845.2	1665.4
65°	1813.2	1746.7	1424.0	980.5	909.1	1005.1	1436.3	1739.3	1751.6	1643.2	1480.6
67.5°	1611.2	1557.0	1234.3	869.6	803.1	877.0	1258.9	1547.1	1554.5	1448.6	1300.8
70°	1409.2	1362.4	1066.7	748.9	699.7	751.4	1084.0	1335.3	1350.0	1236.7	1118.5
72.5°	1202.2	1165.3	904.1	623.3	578.9	623.3	914.0	1140.6	1150.5	1056.9	941.1
75°	992.8	965.7	739.1	500.1	465.6	497.6	744.0	946.0	946.0	857.3	766.2
77.5°	790.8	771.1	566.6	384.3	359.7	379.4	569.1	748.9	744.0	675.0	603.6
80°	591.3	576.5	406.5	278.4	261.1	271.0	406.5	554.3	554.3	505.0	418.8
82.5°	423.7	406.5	268.5	182.3	172.5	177.4	263.6	386.8	394.2	357.2	283.3
85°	280.8	241.4	145.4	101.0	93.6	96.1	138.0	224.2	246.4	206.9	147.8
87.5°	123.2	81.3	37.0	14.8	7.4	9.9	29.6	71.4	93.6	61.6	19.7
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°	4592.1	4592.1	4592.1	4592.1	4592.1	4592.1
2.5°	4606.9	4567.5	4582.3	4592.1	4582.3	4626.6
5°	4602.0	4584.7	4582.3	4594.6	4574.9	4619.2
7.5°	4594.6	4584.7	4582.3	4587.2	4562.6	4604.4
10°	4577.3	4562.6	4567.5	4574.9	4542.8	4582.3
12.5°	4545.3	4530.5	4533.0	4557.6	4513.3	4547.8
15°	4491.1	4473.9	4491.1	4518.2	4478.8	4508.4
17.5°	4419.7	4392.6	4422.1	4464.0	4434.4	4461.5
20°	4328.5	4286.6	4318.7	4395.0	4367.9	4402.4
22.5°	4217.7	4165.9	4197.9	4308.8	4301.4	4338.4
25°	4092.0	4030.4	4074.8	4210.3	4225.0	4259.5
27.5°	3951.6	3882.6	3941.7	4101.9	4136.4	4175.8
30°	3798.8	3724.9	3793.9	3981.1	4032.9	4074.8
32.5°	3641.2	3559.9	3638.7	3845.7	3919.6	3973.8
35°	3476.1	3392.4	3481.0	3705.2	3793.9	3848.1
37.5°	3298.7	3217.4	3313.5	3557.4	3663.3	3717.5
40°	3116.4	3025.3	3133.7	3382.5	3522.9	3587.0
42.5°	2929.2	2815.9	2948.9	3217.4	3370.2	3434.2
45°	2719.8	2562.1	2742.0	3042.5	3202.7	3274.1
47.5°	2510.4	2352.7	2535.0	2855.3	3027.7	3091.8
50°	2308.4	2172.9	2318.2	2650.8	2850.4	2931.7
52.5°	2123.6	2012.7	2135.9	2451.3	2668.1	2749.4
55°	1951.2	1864.9	1965.9	2254.2	2475.9	2569.5
57.5°	1788.6	1734.4	1803.3	2066.9	2298.5	2387.2
60°	1635.8	1598.9	1648.1	1882.2	2089.1	2197.5
62.5°	1485.5	1465.8	1502.8	1687.6	1894.5	2007.8
65°	1340.2	1335.3	1355.0	1517.6	1690.0	1813.2
67.5°	1194.8	1192.4	1204.7	1337.7	1490.5	1611.2
70°	1049.5	1064.3	1056.9	1143.1	1290.9	1409.2
72.5°	901.7	923.8	911.5	965.7	1108.6	1202.2
75°	736.6	766.2	741.5	803.1	891.8	992.8
77.5°	566.6	598.7	569.1	623.3	719.4	790.8
80°	406.5	436.1	411.4	453.3	537.1	591.3
82.5°	256.2	278.4	258.7	300.6	384.3	423.7
85°	113.3	125.6	130.6	162.6	236.5	280.8
87.5°	4.9	2.5	4.9	32.0	83.8	123.2
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)