

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: P520675

Luminaire Tested: **8WSLA-150-L830-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520675  
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-L830-UNV-U  
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

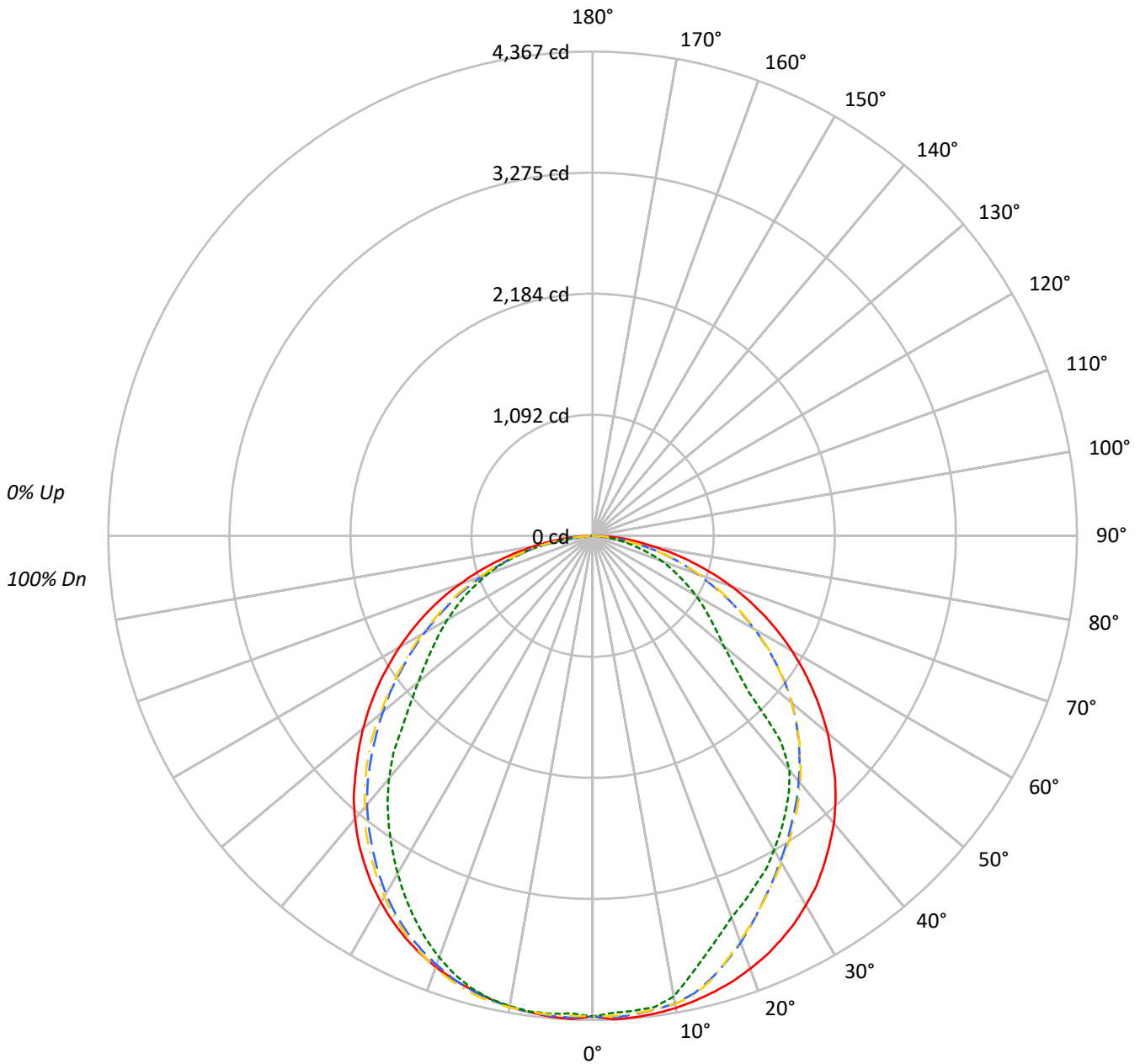
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11628.0 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

TEST NUMBER: P520675

CATALOG NUMBER: 8WSLA-150-L830-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520675

CATALOG NUMBER: 8WSLA-150-L830-UNV-U

**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°	11664	11664	11664	11664
5°	11778	11615	11759	11690
10°	11819	11526	11787	11768
15°	11855	10916	11804	11765
20°	11900	10488	11853	11587
25°	11938	10315	11876	11296
30°	11951	10166	11865	10925
35°	11932	9969	11810	10519
40°	11894	9705	11706	10031
45°	11761	7540	11496	9204
50°	11585	6454	11302	8586
55°	11379	6044	11084	8259
60°	11164	5769	10826	8122
65°	10898	5464	10528	8025
70°	10465	5196	10026	7904
75°	9743	4570	9285	7519
80°	8649	3820	8108	6378
85°	8185	2729	7179	3662



TEST NUMBER: P520675

CATALOG NUMBER: 8WSLA-150-L830-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	411.9	3.5
10°-20°	1174.7	10.1
20°-30°	1755.3	15.1
30°-40°	2089.4	18.0
40°-50°	2088.5	18.0
50°-60°	1797.1	15.5
60°-70°	1352.6	11.6
70°-80°	770.8	6.6
80°-90°	187.6	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°	3341.9	28.7
0°-40°	5431.3	46.7
0°-60°	9317.0	80.1
0°-90°	11628.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11628.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4334	4334	4334	4334	4334	
5°	4360	4300	4353	4328	4360	415
15°	4256	3918	4237	4223	4256	1202
25°	4021	3474	4000	3804	4021	1854
35°	3632	3035	3595	3202	3632	2273
45°	3090	1981	3021	2418	3090	2380
55°	2425	1288	2363	1760	2425	2168
65°	1712	858	1653	1260	1712	1690
75°	937	440	893	723	937	992
85°	265	88	232	119	265	289
90°	0	0	0	0	0	



TEST NUMBER: P520675

CATALOG NUMBER: 8WSLA-150-L830-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5
2.5°	4367.1	4327.6	4350.8	4343.8	4306.6	4320.6	4334.5	4320.6	4362.4	4325.2	4350.8
5°	4360.1	4318.3	4332.2	4318.3	4299.7	4304.3	4325.2	4311.3	4353.1	4313.6	4346.2
7.5°	4346.2	4295.0	4309.0	4302.0	4285.7	4288.0	4309.0	4297.3	4334.5	4297.3	4334.5
10°	4325.2	4271.7	4283.4	4253.1	4218.3	4243.8	4285.7	4274.1	4313.6	4271.7	4313.6
12.5°	4292.7	4239.2	4227.6	4127.6	4064.8	4113.6	4241.5	4241.5	4278.7	4239.2	4283.4
15°	4255.5	4197.3	4134.6	3983.4	3918.3	3967.1	4143.9	4204.3	4236.9	4197.3	4241.5
17.5°	4211.3	4143.9	4022.9	3846.2	3785.7	3834.6	4016.0	4148.5	4190.4	4148.5	4188.0
20°	4155.5	4076.4	3904.3	3702.0	3662.5	3706.7	3888.1	4081.1	4139.2	4088.0	4115.9
22.5°	4095.0	3999.7	3771.8	3590.4	3571.8	3599.7	3764.8	3997.4	4074.1	4020.6	4039.2
25°	4020.6	3909.0	3639.2	3488.1	3474.1	3490.4	3643.9	3899.7	3999.7	3943.9	3950.8
27.5°	3941.5	3820.6	3513.7	3402.1	3388.1	3395.1	3523.0	3790.4	3913.6	3857.8	3846.2
30°	3846.2	3716.0	3388.1	3285.8	3271.8	3297.4	3406.7	3678.8	3818.3	3762.5	3727.6
32.5°	3750.9	3602.0	3264.9	3185.8	3157.9	3181.1	3285.8	3562.5	3713.7	3655.5	3597.4
35°	3632.3	3481.1	3137.0	3057.9	3034.6	3060.2	3164.9	3441.6	3595.1	3536.9	3457.9
37.5°	3509.0	3353.2	3020.7	2948.6	2906.7	2937.0	3041.6	3316.0	3471.8	3411.4	3313.7
40°	3385.8	3218.3	2890.5	2816.1	2762.6	2806.8	2913.7	3183.5	3332.3	3276.5	3164.9
42.5°	3241.6	3083.5	2762.6	2657.9	2506.8	2648.6	2776.5	3050.9	3188.1	3134.6	2999.8
45°	3090.4	2939.3	2627.7	2374.2	1981.2	2397.5	2637.0	2911.4	3020.7	2969.5	2823.0
47.5°	2918.4	2790.5	2490.5	2104.5	1723.1	2127.7	2495.1	2778.8	2862.6	2806.8	2644.0
50°	2767.2	2641.6	2346.3	1876.6	1541.7	1902.2	2344.0	2630.0	2699.8	2648.6	2467.2
52.5°	2595.1	2485.8	2190.5	1674.3	1406.9	1699.9	2185.9	2476.5	2532.4	2471.9	2290.5
55°	2425.4	2327.7	2025.4	1495.2	1288.3	1518.5	2020.8	2318.4	2362.6	2292.8	2104.5
57.5°	2253.3	2164.9	1855.7	1334.8	1179.0	1360.4	1867.3	2155.6	2185.9	2097.5	1925.4
60°	2074.3	1999.8	1683.6	1192.9	1072.0	1213.9	1678.9	1992.9	2011.5	1916.1	1751.0
62.5°	1895.2	1827.8	1511.5	1062.7	962.7	1076.7	1523.1	1820.8	1832.4	1741.7	1572.0
65°	1711.5	1648.7	1344.1	925.5	858.1	948.8	1355.7	1641.7	1653.4	1551.0	1397.6
67.5°	1520.8	1469.6	1165.0	820.9	758.1	827.8	1188.3	1460.3	1467.3	1367.3	1227.8
70°	1330.1	1285.9	1006.9	706.9	660.4	709.2	1023.2	1260.4	1274.3	1167.3	1055.7
72.5°	1134.8	1099.9	853.4	588.3	546.5	588.3	862.7	1076.7	1086.0	997.6	888.3
75°	937.1	911.6	697.6	472.1	439.5	469.7	702.3	893.0	893.0	809.2	723.2
77.5°	746.5	727.8	534.8	362.8	339.5	358.1	537.2	706.9	702.3	637.2	569.7
80°	558.1	544.1	383.7	262.8	246.5	255.8	383.7	523.2	523.2	476.7	395.3
82.5°	400.0	383.7	253.5	172.1	162.8	167.4	248.8	365.1	372.1	337.2	267.4
85°	265.1	227.9	137.2	95.3	88.4	90.7	130.2	211.6	232.5	195.3	139.5
87.5°	116.3	76.7	34.9	14.0	7.0	9.3	27.9	67.4	88.4	58.1	18.6
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: P520675

CATALOG NUMBER: 8WSLA-150-L830-UNV-U

**CANDELA DISTRIBUTION (continued):**

	247.5°	270°	292.5°	315°	337.5°	360°
0°	4334.5	4334.5	4334.5	4334.5	4334.5	4334.5
2.5°	4348.5	4311.3	4325.2	4334.5	4325.2	4367.1
5°	4343.8	4327.6	4325.2	4336.9	4318.3	4360.1
7.5°	4336.9	4327.6	4325.2	4329.9	4306.6	4346.2
10°	4320.6	4306.6	4311.3	4318.3	4288.0	4325.2
12.5°	4290.4	4276.4	4278.7	4302.0	4260.1	4292.7
15°	4239.2	4222.9	4239.2	4264.8	4227.6	4255.5
17.5°	4171.8	4146.2	4174.1	4213.6	4185.7	4211.3
20°	4085.7	4046.2	4076.4	4148.5	4122.9	4155.5
22.5°	3981.1	3932.2	3962.5	4067.1	4060.1	4095.0
25°	3862.5	3804.3	3846.2	3974.1	3988.1	4020.6
27.5°	3729.9	3664.8	3720.6	3871.8	3904.3	3941.5
30°	3585.8	3516.0	3581.1	3757.8	3806.7	3846.2
32.5°	3436.9	3360.2	3434.6	3629.9	3699.7	3750.9
35°	3281.1	3202.1	3285.8	3497.4	3581.1	3632.3
37.5°	3113.7	3037.0	3127.7	3357.9	3457.9	3509.0
40°	2941.6	2855.6	2957.9	3192.8	3325.3	3385.8
42.5°	2764.9	2657.9	2783.5	3037.0	3181.1	3241.6
45°	2567.2	2418.4	2588.2	2871.9	3023.0	3090.4
47.5°	2369.6	2220.8	2392.8	2695.1	2857.9	2918.4
50°	2178.9	2051.0	2188.2	2502.1	2690.5	2767.2
52.5°	2004.5	1899.8	2016.1	2313.8	2518.4	2595.1
55°	1841.7	1760.3	1855.7	2127.7	2337.0	2425.4
57.5°	1688.2	1637.1	1702.2	1951.0	2169.6	2253.3
60°	1544.1	1509.2	1555.7	1776.6	1971.9	2074.3
62.5°	1402.2	1383.6	1418.5	1592.9	1788.2	1895.2
65°	1265.0	1260.4	1279.0	1432.4	1595.2	1711.5
67.5°	1127.8	1125.5	1137.1	1262.7	1406.9	1520.8
70°	990.6	1004.6	997.6	1079.0	1218.5	1330.1
72.5°	851.1	872.0	860.4	911.6	1046.4	1134.8
75°	695.3	723.2	699.9	758.1	841.8	937.1
77.5°	534.8	565.1	537.2	588.3	679.0	746.5
80°	383.7	411.6	388.3	427.9	506.9	558.1
82.5°	241.8	262.8	244.2	283.7	362.8	400.0
85°	107.0	118.6	123.2	153.5	223.2	265.1
87.5°	4.7	2.3	4.7	30.2	79.1	116.3
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)