

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: P520678

Luminaire Tested: **8WSLA-150-L835-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520678  
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-L835-UNV-U  
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH NO UPLIGHT  
Light Source: -  
Ballast/Driver: -

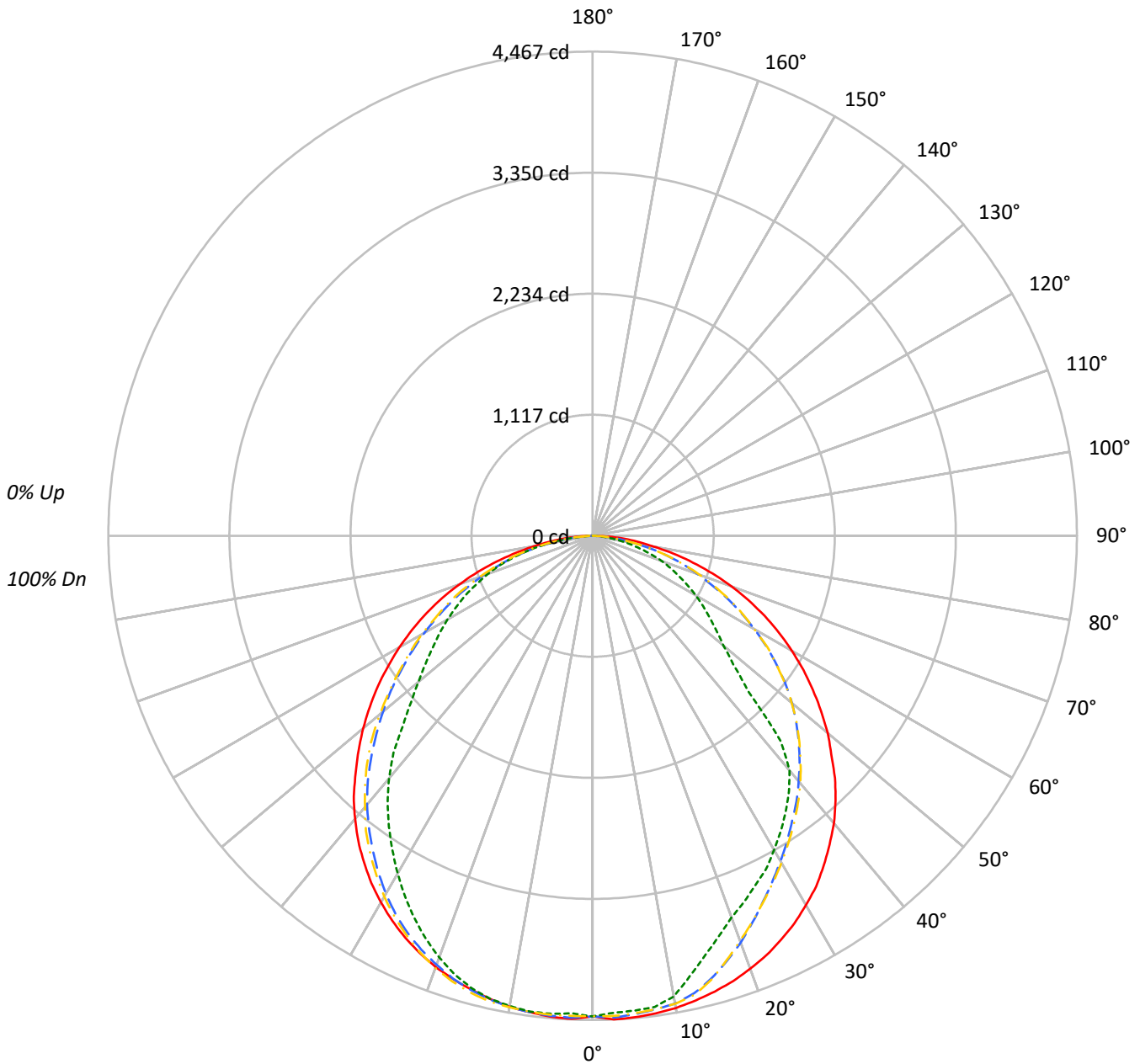
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11894.0 lumens  
Efficiency: N/A  
Efficacy: 127.1 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°	11931	11931	11931	11931
5°	12047	11880	12028	11957
10°	12089	11790	12057	12037
15°	12126	11166	12074	12034
20°	12172	10728	12125	11852
25°	12211	10551	12147	11554
30°	12225	10399	12136	11175
35°	12205	10197	12080	10760
40°	12166	9927	11973	10261
45°	12030	7712	11759	9414
50°	11850	6602	11561	8783
55°	11639	6182	11338	8448
60°	11419	5901	11073	8308
65°	11147	5589	10769	8209
70°	10705	5315	10256	8085
75°	9967	4675	9497	7691
80°	8847	3907	8294	6524
85°	8373	2791	7345	3745



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.3	3.5
10°-20°	1201.6	10.1
20°-30°	1795.5	15.1
30°-40°	2137.2	18.0
40°-50°	2136.3	18.0
50°-60°	1838.2	15.5
60°-70°	1383.6	11.6
70°-80°	788.4	6.6
80°-90°	191.9	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°	3418.3	28.7
0°-40°	5555.6	46.7
0°-60°	9530.1	80.1
0°-90°	11894.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11894.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	4434	4434	4434	4434	4434	
5°	4460	4398	4453	4427	4460	424
15°	4353	4008	4334	4320	4353	1230
25°	4113	3554	4091	3891	4113	1896
35°	3715	3104	3677	3275	3715	2325
45°	3161	2027	3090	2474	3161	2434
55°	2481	1318	2417	1801	2481	2218
65°	1751	878	1691	1289	1751	1729
75°	959	450	913	740	959	1015
85°	271	90	238	121	271	295
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°	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7
2.5°	4467.0	4426.6	4450.3	4443.2	4405.1	4419.4	4433.7	4419.4	4462.2	4424.2	4450.3
5°	4459.9	4417.0	4431.3	4417.0	4398.0	4402.8	4424.2	4409.9	4452.7	4412.3	4445.6
7.5°	4445.6	4393.3	4407.5	4400.4	4383.7	4386.1	4407.5	4395.6	4433.7	4395.6	4433.7
10°	4424.2	4369.5	4381.4	4350.4	4314.8	4340.9	4383.7	4371.8	4412.3	4369.5	4412.3
12.5°	4390.9	4336.2	4324.3	4222.0	4157.8	4207.7	4338.5	4338.5	4376.6	4336.2	4381.4
15°	4352.8	4293.4	4229.1	4074.5	4007.9	4057.9	4238.6	4300.5	4333.8	4293.4	4338.5
17.5°	4307.6	4238.6	4115.0	3934.2	3872.3	3922.3	4107.8	4243.4	4286.2	4243.4	4283.8
20°	4250.5	4169.7	3993.7	3786.7	3746.3	3791.5	3977.0	4174.4	4233.9	4181.6	4210.1
22.5°	4188.7	4091.2	3858.1	3672.5	3653.5	3682.1	3850.9	4088.8	4167.3	4112.6	4131.6
25°	4112.6	3998.4	3722.5	3567.9	3553.6	3570.3	3727.2	3988.9	4091.2	4034.1	4041.2
27.5°	4031.7	3908.0	3594.0	3479.9	3465.6	3472.7	3603.6	3877.1	4003.2	3946.1	3934.2
30°	3934.2	3801.0	3465.6	3360.9	3346.7	3372.8	3484.6	3762.9	3905.6	3848.6	3812.9
32.5°	3836.7	3684.4	3339.5	3258.7	3230.1	3253.9	3360.9	3644.0	3798.6	3739.1	3679.7
35°	3715.4	3560.7	3208.7	3127.8	3104.1	3130.2	3237.3	3520.3	3677.3	3617.8	3537.0
37.5°	3589.3	3429.9	3089.8	3016.1	2973.2	3004.2	3111.2	3391.9	3551.2	3489.4	3389.5
40°	3463.2	3292.0	2956.6	2880.5	2825.8	2871.0	2980.4	3256.3	3408.5	3351.4	3237.3
42.5°	3315.8	3154.0	2825.8	2718.7	2564.1	2709.2	2840.0	3120.7	3261.0	3206.3	3068.4
45°	3161.1	3006.5	2687.8	2428.5	2026.6	2452.3	2697.3	2978.0	3089.8	3037.5	2887.6
47.5°	2985.1	2854.3	2547.5	2152.6	1762.5	2176.4	2552.2	2842.4	2928.0	2871.0	2704.5
50°	2830.5	2702.1	2400.0	1919.5	1577.0	1945.7	2397.6	2690.2	2761.5	2709.2	2523.7
52.5°	2654.5	2542.7	2240.6	1712.6	1439.0	1738.7	2235.9	2533.2	2590.3	2528.4	2342.9
55°	2480.9	2381.0	2071.8	1529.4	1317.7	1553.2	2067.0	2371.5	2416.6	2345.3	2152.6
57.5°	2304.9	2214.5	1898.1	1365.3	1205.9	1391.5	1910.0	2205.0	2235.9	2145.5	1969.5
60°	2121.7	2045.6	1722.1	1220.2	1096.5	1241.6	1717.3	2038.5	2057.5	1960.0	1791.1
62.5°	1938.6	1869.6	1546.1	1087.0	984.7	1101.3	1558.0	1862.4	1874.3	1781.6	1607.9
65°	1750.6	1686.4	1374.8	946.7	877.7	970.5	1386.7	1679.3	1691.2	1586.5	1429.5
67.5°	1555.6	1503.3	1191.7	839.6	775.4	846.8	1215.5	1493.8	1500.9	1398.6	1255.9
70°	1360.6	1315.4	1029.9	723.1	675.5	725.5	1046.6	1289.2	1303.5	1194.1	1079.9
72.5°	1160.8	1125.1	872.9	601.8	559.0	601.8	882.5	1101.3	1110.8	1020.4	908.6
75°	958.6	932.4	713.6	482.9	449.6	480.5	718.3	913.4	913.4	827.7	739.7
77.5°	763.5	744.5	547.1	371.1	347.3	366.3	549.5	723.1	718.3	651.7	582.8
80°	570.9	556.6	392.5	268.8	252.1	261.6	392.5	535.2	535.2	487.6	404.4
82.5°	409.1	392.5	259.3	176.0	166.5	171.3	254.5	373.4	380.6	344.9	273.5
85°	271.2	233.1	140.3	97.5	90.4	92.8	133.2	216.5	237.9	199.8	142.7
87.5°	118.9	78.5	35.7	14.3	7.1	9.5	28.5	69.0	90.4	59.5	19.0
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°	4433.7	4433.7	4433.7	4433.7	4433.7	4433.7
2.5°	4448.0	4409.9	4424.2	4433.7	4424.2	4467.0
5°	4443.2	4426.6	4424.2	4436.1	4417.0	4459.9
7.5°	4436.1	4426.6	4424.2	4428.9	4405.1	4445.6
10°	4419.4	4405.1	4409.9	4417.0	4386.1	4424.2
12.5°	4388.5	4374.2	4376.6	4400.4	4357.6	4390.9
15°	4336.2	4319.5	4336.2	4362.3	4324.3	4352.8
17.5°	4267.2	4241.0	4269.6	4310.0	4281.5	4307.6
20°	4179.2	4138.7	4169.7	4243.4	4217.2	4250.5
22.5°	4072.1	4022.2	4053.1	4160.2	4153.0	4188.7
25°	3950.8	3891.4	3934.2	4065.0	4079.3	4112.6
27.5°	3815.3	3748.7	3805.7	3960.4	3993.7	4031.7
30°	3667.8	3596.4	3663.0	3843.8	3893.8	3934.2
32.5°	3515.6	3437.1	3513.2	3713.0	3784.3	3836.7
35°	3356.2	3275.3	3360.9	3577.4	3663.0	3715.4
37.5°	3184.9	3106.4	3199.2	3434.7	3537.0	3589.3
40°	3008.9	2920.9	3025.6	3265.8	3401.4	3463.2
42.5°	2828.1	2718.7	2847.2	3106.4	3253.9	3315.8
45°	2626.0	2473.7	2647.4	2937.6	3092.2	3161.1
47.5°	2423.8	2271.6	2447.6	2756.8	2923.3	2985.1
50°	2228.7	2097.9	2238.3	2559.4	2752.0	2830.5
52.5°	2050.3	1943.3	2062.2	2366.7	2576.0	2654.5
55°	1883.8	1800.6	1898.1	2176.4	2390.5	2480.9
57.5°	1726.9	1674.5	1741.1	1995.6	2219.2	2304.9
60°	1579.4	1543.7	1591.3	1817.2	2017.0	2121.7
62.5°	1434.3	1415.3	1450.9	1629.3	1829.1	1938.6
65°	1294.0	1289.2	1308.2	1465.2	1631.7	1750.6
67.5°	1153.6	1151.2	1163.1	1291.6	1439.0	1555.6
70°	1013.3	1027.6	1020.4	1103.7	1246.4	1360.6
72.5°	870.6	892.0	880.1	932.4	1070.4	1160.8
75°	711.2	739.7	716.0	775.4	861.0	958.6
77.5°	547.1	578.0	549.5	601.8	694.5	763.5
80°	392.5	421.0	397.2	437.7	518.5	570.9
82.5°	247.4	268.8	249.8	290.2	371.1	409.1
85°	109.4	121.3	126.1	157.0	228.3	271.2
87.5°	4.8	2.4	4.8	30.9	80.9	118.9
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)