

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: P520685

Luminaire Tested: **8WSLA-150-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520685  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-150-L850-UPL15-UNV-U  
Description: 8 FOOT, 3000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

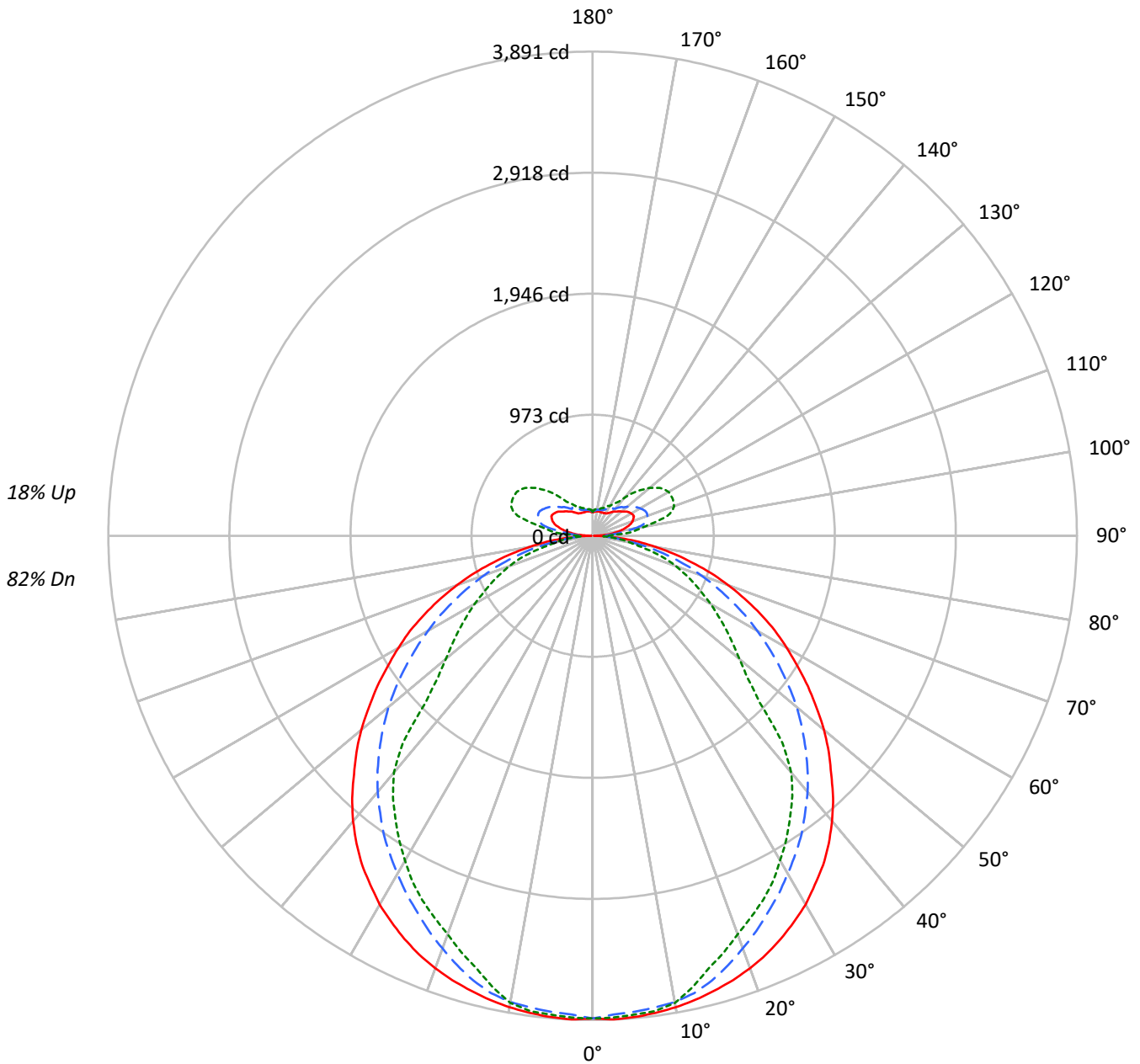
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12562.0 lumens  
Efficiency: N/A  
Efficacy: 134.2 lumens/watt  
Spacing Criteria (0/90/45): 1.3 / 1.16 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	10438	10438	10438
5°	10488	10371	10435
10°	10513	10395	10416
15°	10543	10313	10028
20°	10589	10105	9756
25°	10617	9905	9601
30°	10635	9742	9363
35°	10610	9615	9085
40°	10516	9438	8720
45°	10315	9207	7231
50°	10161	8959	6439
55°	9911	8601	6127
60°	9697	8214	5886
65°	9468	7765	5711
70°	9100	7274	5602
75°	8589	6667	5154
80°	7865	5608	4572
85°	7046	4860	4616



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	367.6	2.9
10°-20°	1044.2	8.3
20°-30°	1558.4	12.4
30°-40°	1856.9	14.8
40°-50°	1847.0	14.7
50°-60°	1583.0	12.6
60°-70°	1192.2	9.5
70°-80°	690.5	5.5
80°-90°	207.5	1.7
90°-100°	222.8	1.8
100°-110°	457.5	3.6
110°-120°	483.7	3.9
120°-130°	403.6	3.2
130°-140°	281.9	2.2
140°-150°	175.5	1.4
150°-160°	108.8	0.9
160°-170°	61.3	0.5
170°-180°	19.8	0.2
0°-30°	2970.3	23.6
0°-40°	4827.2	38.4
0°-60°	8257.2	65.7
0°-90°	10347.3	82.4
90°-120°	1164.0	9.3
90°-150°	2024.9	16.1
90°-180°	2215.0	17.6
0°-180°	12562.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3879	3879	3879	3879	3879	
5°	3883	3871	3840	3867	3863	369
15°	3784	3780	3702	3639	3600	1069
25°	3576	3525	3336	3253	3234	1649
35°	3230	3143	2927	2813	2766	2017
45°	2710	2644	2419	2179	1900	2095
55°	2112	2081	1833	1456	1306	1889
65°	1487	1452	1220	948	897	1470
75°	826	799	641	511	496	875
85°	228	201	157	150	150	243
90°	12	55	94	118	126	23
95°	126	169	193	283	307	120
105°	295	307	441	590	626	306
115°	366	311	468	645	708	356
125°	338	299	405	594	669	300
135°	275	299	326	441	508	215
145°	224	260	283	303	323	142
155°	205	216	232	252	256	94
165°	201	208	216	224	224	57
175°	197	201	205	208	212	19
180°	193	193	193	193	193	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3878.8	3878.8	3878.8	3878.8	3878.8
2.5°	3890.6	3882.7	3851.3	3882.7	3874.9
5°	3882.7	3870.9	3839.5	3867.0	3863.1
7.5°	3867.0	3859.1	3823.7	3855.2	3851.3
10°	3847.3	3835.5	3804.1	3827.7	3811.9
12.5°	3819.8	3811.9	3764.7	3745.0	3713.6
15°	3784.4	3780.5	3701.8	3638.8	3599.5
17.5°	3745.0	3729.3	3619.2	3544.4	3509.0
20°	3697.8	3674.2	3528.7	3442.1	3406.7
22.5°	3642.8	3607.4	3438.2	3355.6	3320.2
25°	3575.9	3524.7	3335.9	3253.3	3233.6
27.5°	3501.1	3442.1	3241.5	3158.9	3135.3
30°	3422.5	3347.7	3135.3	3056.6	3013.3
32.5°	3324.1	3253.3	3033.0	2942.5	2895.3
35°	3229.7	3143.2	2926.8	2812.7	2765.5
37.5°	3115.6	3029.1	2804.9	2690.8	2635.7
40°	2993.7	2907.1	2686.8	2553.1	2482.3
42.5°	2859.9	2781.2	2557.0	2395.7	2258.0
45°	2710.4	2643.6	2419.3	2179.4	1900.1
47.5°	2572.8	2509.8	2281.6	1970.9	1683.7
50°	2427.2	2368.2	2140.0	1774.2	1538.1
52.5°	2265.9	2222.6	1986.6	1605.0	1416.2
55°	2112.5	2081.0	1833.2	1455.5	1306.0
57.5°	1951.2	1919.7	1679.8	1313.9	1195.9
60°	1801.7	1770.2	1526.3	1188.0	1093.6
62.5°	1652.2	1609.0	1376.9	1066.1	987.4
65°	1487.0	1451.6	1219.5	948.1	896.9
67.5°	1321.8	1290.3	1073.9	837.9	802.5
70°	1156.6	1129.0	924.5	731.7	712.0
72.5°	995.3	959.9	790.7	625.5	617.6
75°	826.1	798.6	641.2	511.4	495.7
77.5°	664.8	641.2	503.5	389.5	377.7
80°	507.5	483.9	361.9	283.2	295.0
82.5°	373.7	342.2	243.9	220.3	232.1
85°	228.2	200.6	157.4	149.5	149.5
87.5°	78.7	74.7	70.8	82.6	86.5
90°	11.8	55.1	94.4	118.0	125.9
92.5°	66.9	98.3	129.8	153.4	161.3
95°	125.9	169.2	192.8	283.2	306.8
97.5°	173.1	224.2	251.8	334.4	358.0
100°	220.3	267.5	354.0	397.3	424.9
102.5°	259.6	295.0	417.0	503.5	519.3
105°	295.0	306.8	440.6	590.1	625.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	354.0	314.7	472.1	641.2	704.2
115°	365.9	310.8	468.1	645.2	708.1
117.5°	365.9	310.8	456.3	645.2	708.1
120°	358.0	314.7	440.6	637.3	704.2
122.5°	350.1	306.8	424.9	621.6	688.4
125°	338.3	299.0	405.2	594.0	668.8
127.5°	318.6	306.8	385.5	558.6	633.4
130°	302.9	310.8	361.9	523.2	597.9
132.5°	291.1	302.9	338.3	483.9	550.7
135°	275.4	299.0	326.5	440.6	507.5
137.5°	263.6	287.2	306.8	401.3	456.3
140°	251.8	279.3	287.2	350.1	397.3
142.5°	236.0	267.5	271.4	326.5	346.2
145°	224.2	259.6	283.2	302.9	322.6
147.5°	212.4	243.9	275.4	279.3	299.0
150°	208.5	228.2	263.6	267.5	275.4
152.5°	204.6	220.3	243.9	267.5	271.4
155°	204.6	216.4	232.1	251.8	255.7
157.5°	200.6	216.4	224.2	240.0	243.9
160°	200.6	212.4	220.3	232.1	236.0
162.5°	200.6	212.4	216.4	228.2	232.1
165°	200.6	208.5	216.4	224.2	224.2
167.5°	200.6	208.5	212.4	220.3	220.3
170°	200.6	204.6	212.4	216.4	216.4
172.5°	196.7	204.6	208.5	216.4	216.4
175°	196.7	200.6	204.6	208.5	212.4
177.5°	188.8	200.6	204.6	208.5	204.6
180°	192.8	192.8	192.8	192.8	192.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°    - - 45°-225°    - - - - 90°-270°







107.5°	322.6	310.8	456.3	621.6	672.7
110°	342.2	314.7	468.1	633.4	696.3



(END OF REPORT)