

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: P520769

Luminaire Tested: **8WSLA-50-L950-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520769  
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-50-L950-UPL15-UNV-U  
Description: 8 FOOT, 1000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

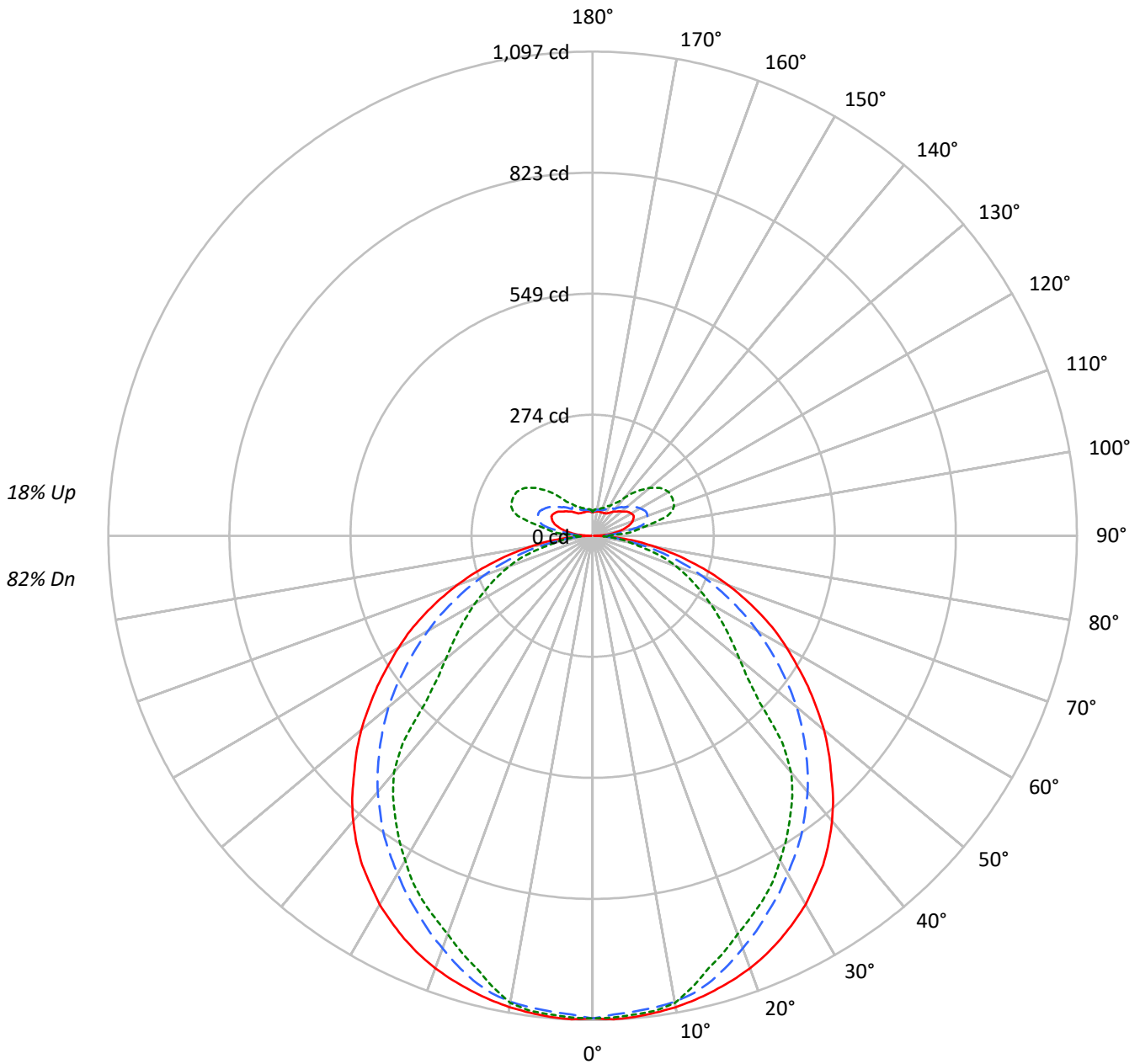
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3541.0 lumens  
Efficiency: N/A  
Efficacy: 116.1 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): 30.5  
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: P520769

CATALOG NUMBER: 8WSLA-50-L950-UPL15-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520769

CATALOG NUMBER: 8WSLA-50-L950-UPL15-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	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°	2942	2942	2942
5°	2957	2924	2941
10°	2963	2930	2936
15°	2972	2907	2827
20°	2985	2849	2750
25°	2993	2792	2706
30°	2998	2746	2639
35°	2991	2710	2561
40°	2964	2661	2458
45°	2907	2595	2038
50°	2864	2525	1815
55°	2794	2424	1727
60°	2733	2315	1659
65°	2669	2189	1610
70°	2565	2050	1579
75°	2421	1879	1452
80°	2216	1581	1289
85°	1985	1371	1300



TEST NUMBER: P520769

CATALOG NUMBER: 8WSLA-50-L950-UPL15-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.6	2.9
10°-20°	294.4	8.3
20°-30°	439.3	12.4
30°-40°	523.4	14.8
40°-50°	520.6	14.7
50°-60°	446.2	12.6
60°-70°	336.1	9.5
70°-80°	194.6	5.5
80°-90°	58.5	1.7
90°-100°	62.8	1.8
100°-110°	129.0	3.6
110°-120°	136.4	3.9
120°-130°	113.8	3.2
130°-140°	79.5	2.2
140°-150°	49.5	1.4
150°-160°	30.7	0.9
160°-170°	17.3	0.5
170°-180°	5.6	0.2
<hr/>		
0°-30°	837.3	23.6
0°-40°	1360.7	38.4
0°-60°	2327.6	65.7
0°-90°	2916.7	82.4
90°-120°	328.1	9.3
90°-150°	570.8	16.1
90°-180°	624.0	17.6
0°-180°	3541.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1093	1093	1093	1093	1093	
5°	1094	1091	1082	1090	1089	104
15°	1067	1066	1044	1026	1015	301
25°	1008	994	940	917	912	465
35°	910	886	825	793	780	569
45°	764	745	682	614	536	591
55°	596	587	517	410	368	532
65°	419	409	344	267	253	414
75°	233	225	181	144	140	247
85°	64	57	44	42	42	69
90°	3	16	27	33	36	7
95°	36	48	54	80	86	34
105°	83	86	124	166	176	86
115°	103	88	132	182	200	100
125°	95	84	114	167	188	85
135°	78	84	92	124	143	61
145°	63	73	80	85	91	40
155°	58	61	65	71	72	27
165°	57	59	61	63	63	16
175°	55	57	58	59	60	5
180°	54	54	54	54	54	



TEST NUMBER: P520769

CATALOG NUMBER: 8WSLA-50-L950-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1093.4	1093.4	1093.4	1093.4	1093.4
2.5°	1096.7	1094.5	1085.6	1094.5	1092.3
5°	1094.5	1091.1	1082.3	1090.0	1088.9
7.5°	1090.0	1087.8	1077.8	1086.7	1085.6
10°	1084.5	1081.2	1072.3	1078.9	1074.5
12.5°	1076.7	1074.5	1061.2	1055.7	1046.8
15°	1066.7	1065.6	1043.5	1025.7	1014.6
17.5°	1055.7	1051.2	1020.2	999.1	989.1
20°	1042.4	1035.7	994.7	970.3	960.3
22.5°	1026.8	1016.8	969.2	945.9	935.9
25°	1008.0	993.6	940.3	917.0	911.5
27.5°	986.9	970.3	913.7	890.4	883.8
30°	964.7	943.7	883.8	861.6	849.4
32.5°	937.0	917.0	855.0	829.4	816.1
35°	910.4	886.0	825.0	792.9	779.5
37.5°	878.2	853.8	790.6	758.5	743.0
40°	843.9	819.5	757.4	719.7	699.7
42.5°	806.2	784.0	720.8	675.3	636.5
45°	764.0	745.2	682.0	614.3	535.6
47.5°	725.2	707.5	643.2	555.6	474.6
50°	684.2	667.5	603.2	500.1	433.6
52.5°	638.7	626.5	560.0	452.4	399.2
55°	595.5	586.6	516.7	410.3	368.2
57.5°	550.0	541.1	473.5	370.4	337.1
60°	507.9	499.0	430.2	334.9	308.3
62.5°	465.7	453.5	388.1	300.5	278.3
65°	419.2	409.2	343.8	267.2	252.8
67.5°	372.6	363.7	302.7	236.2	226.2
70°	326.0	318.3	260.6	206.3	200.7
72.5°	280.5	270.6	222.9	176.3	174.1
75°	232.9	225.1	180.7	144.2	139.7
77.5°	187.4	180.7	141.9	109.8	106.5
80°	143.0	136.4	102.0	79.8	83.2
82.5°	105.3	96.5	68.8	62.1	65.4
85°	64.3	56.6	44.4	42.1	42.1
87.5°	22.2	21.1	20.0	23.3	24.4
90°	3.3	15.5	26.6	33.3	35.5
92.5°	18.9	27.7	36.6	43.2	45.5
95°	35.5	47.7	54.3	79.8	86.5
97.5°	48.8	63.2	71.0	94.3	100.9
100°	62.1	75.4	99.8	112.0	119.8
102.5°	73.2	83.2	117.5	141.9	146.4
105°	83.2	86.5	124.2	166.3	176.3



TEST NUMBER: P520769

CATALOG NUMBER: 8WSLA-50-L950-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	99.8	88.7	133.1	180.7	198.5
115°	103.1	87.6	132.0	181.9	199.6
117.5°	103.1	87.6	128.6	181.9	199.6
120°	100.9	88.7	124.2	179.6	198.5
122.5°	98.7	86.5	119.8	175.2	194.1
125°	95.4	84.3	114.2	167.4	188.5
127.5°	89.8	86.5	108.7	157.5	178.5
130°	85.4	87.6	102.0	147.5	168.6
132.5°	82.1	85.4	95.4	136.4	155.2
135°	77.6	84.3	92.0	124.2	143.0
137.5°	74.3	80.9	86.5	113.1	128.6
140°	71.0	78.7	80.9	98.7	112.0
142.5°	66.5	75.4	76.5	92.0	97.6
145°	63.2	73.2	79.8	85.4	90.9
147.5°	59.9	68.8	77.6	78.7	84.3
150°	58.8	64.3	74.3	75.4	77.6
152.5°	57.7	62.1	68.8	75.4	76.5
155°	57.7	61.0	65.4	71.0	72.1
157.5°	56.6	61.0	63.2	67.6	68.8
160°	56.6	59.9	62.1	65.4	66.5
162.5°	56.6	59.9	61.0	64.3	65.4
165°	56.6	58.8	61.0	63.2	63.2
167.5°	56.6	58.8	59.9	62.1	62.1
170°	56.6	57.7	59.9	61.0	61.0
172.5°	55.4	57.7	58.8	61.0	61.0
175°	55.4	56.6	57.7	58.8	59.9
177.5°	53.2	56.6	57.7	58.8	57.7
180°	54.3	54.3	54.3	54.3	54.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	90.9	87.6	128.6	175.2	189.6
110°	96.5	88.7	132.0	178.5	196.3



(END OF REPORT)