

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: P520649

Luminaire Tested: **8WSLA-100-L950-UPL15-UNV-U**

Issue Date: 5/3/2021



**Test Information**

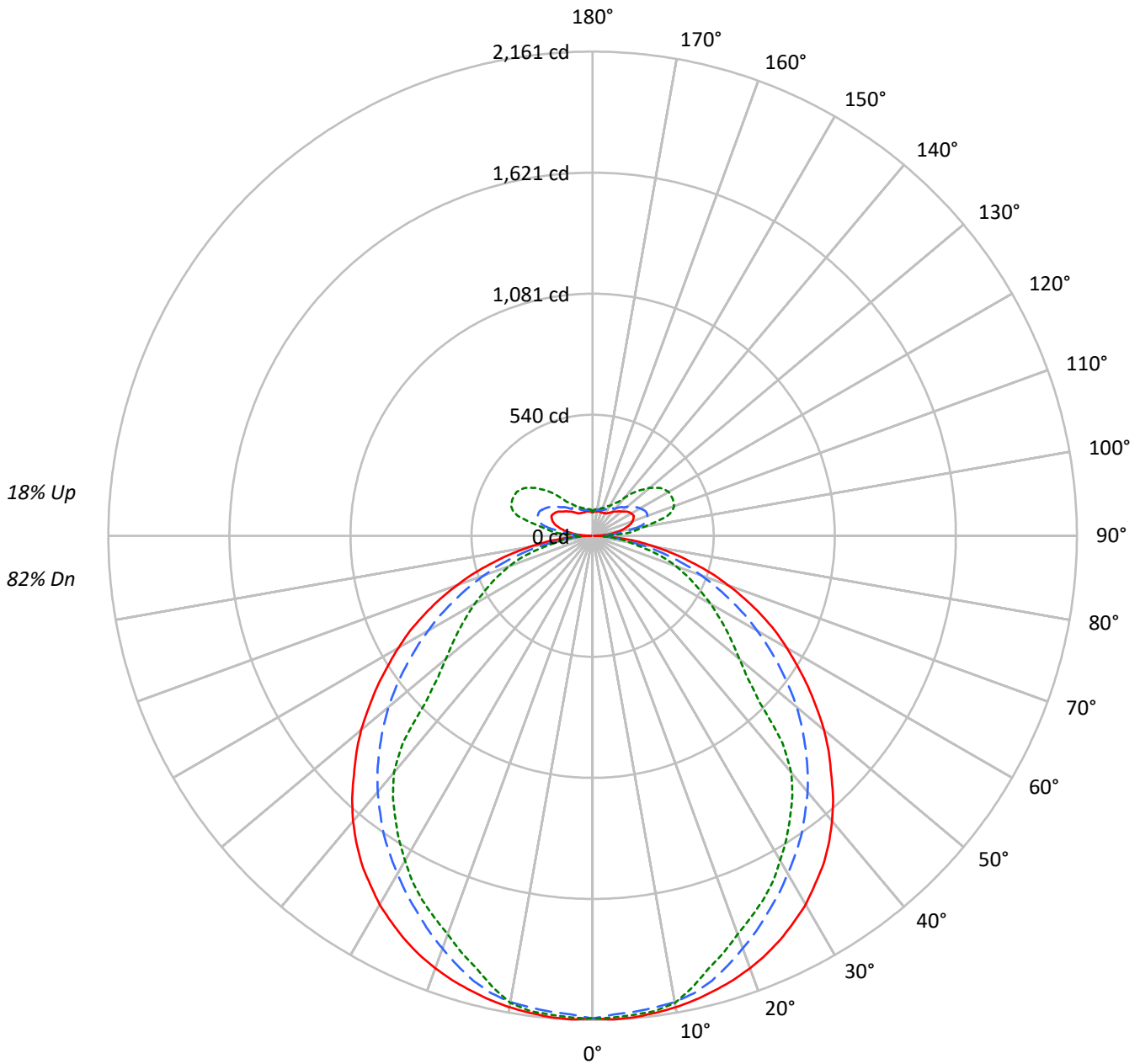
Test Method: LM-79-08  
Report Number: P520649  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-100-L950-UPL15-UNV-U  
Description: 8 FOOT, 2000 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: 6977.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 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): 63.4  
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°	5797	5797	5797
5°	5825	5760	5796
10°	5839	5773	5785
15°	5856	5728	5570
20°	5881	5612	5418
25°	5897	5501	5333
30°	5907	5411	5200
35°	5893	5340	5046
40°	5841	5242	4843
45°	5729	5114	4016
50°	5644	4976	3576
55°	5505	4777	3403
60°	5386	4562	3269
65°	5259	4313	3172
70°	5054	4039	3112
75°	4770	3702	2862
80°	4369	3115	2540
85°	3912	2699	2563



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	204.2	2.9
10°-20°	580.0	8.3
20°-30°	865.6	12.4
30°-40°	1031.3	14.8
40°-50°	1025.8	14.7
50°-60°	879.2	12.6
60°-70°	662.1	9.5
70°-80°	383.5	5.5
80°-90°	115.3	1.7
90°-100°	123.7	1.8
100°-110°	254.1	3.6
110°-120°	268.7	3.9
120°-130°	224.1	3.2
130°-140°	156.6	2.2
140°-150°	97.4	1.4
150°-160°	60.4	0.9
160°-170°	34.0	0.5
170°-180°	11.0	0.2
0°-30°	1649.7	23.6
0°-40°	2681.1	38.4
0°-60°	4586.1	65.7
0°-90°	5746.9	82.4
90°-120°	646.5	9.3
90°-150°	1124.6	16.1
90°-180°	1230.0	17.6
0°-180°	6977.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2154	2154	2154	2154	2154	
5°	2156	2150	2132	2148	2146	205
15°	2102	2100	2056	2021	1999	594
25°	1986	1958	1853	1807	1796	916
35°	1794	1746	1626	1562	1536	1120
45°	1505	1468	1344	1210	1055	1164
55°	1173	1156	1018	808	725	1049
65°	826	806	677	527	498	816
75°	459	444	356	284	275	486
85°	127	111	87	83	83	135
90°	7	31	52	66	70	13
95°	70	94	107	157	170	67
105°	164	170	245	328	347	170
115°	203	173	260	358	393	198
125°	188	166	225	330	371	167
135°	153	166	181	245	282	119
145°	124	144	157	168	179	79
155°	114	120	129	140	142	52
165°	111	116	120	124	124	32
175°	109	111	114	116	118	10
180°	107	107	107	107	107	



TEST NUMBER: P520649

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2154.3	2154.3	2154.3	2154.3	2154.3
2.5°	2160.9	2156.5	2139.0	2156.5	2152.1
5°	2156.5	2149.9	2132.5	2147.7	2145.6
7.5°	2147.7	2143.4	2123.7	2141.2	2139.0
10°	2136.8	2130.3	2112.8	2125.9	2117.2
12.5°	2121.5	2117.2	2090.9	2080.0	2062.5
15°	2101.9	2099.7	2056.0	2021.0	1999.2
17.5°	2080.0	2071.3	2010.1	1968.6	1948.9
20°	2053.8	2040.7	1959.8	1911.8	1892.1
22.5°	2023.2	2003.5	1909.6	1863.7	1844.0
25°	1986.1	1957.7	1852.8	1806.9	1796.0
27.5°	1944.6	1911.8	1800.4	1754.5	1741.4
30°	1900.9	1859.3	1741.4	1697.7	1673.6
32.5°	1846.2	1806.9	1684.6	1634.3	1608.1
35°	1793.8	1745.7	1625.6	1562.2	1536.0
37.5°	1730.4	1682.4	1557.8	1494.5	1463.9
40°	1662.7	1614.6	1492.3	1418.0	1378.7
42.5°	1588.4	1544.7	1420.2	1330.6	1254.1
45°	1505.4	1468.2	1343.7	1210.4	1055.3
47.5°	1428.9	1394.0	1267.2	1094.6	935.1
50°	1348.1	1315.3	1188.6	985.4	854.3
52.5°	1258.5	1234.5	1103.4	891.4	786.6
55°	1173.3	1155.8	1018.2	808.4	725.4
57.5°	1083.7	1066.2	932.9	729.8	664.2
60°	1000.7	983.2	847.7	659.8	607.4
62.5°	917.7	893.6	764.7	592.1	548.4
65°	825.9	806.2	677.3	526.6	498.2
67.5°	734.1	716.6	596.5	465.4	445.7
70°	642.4	627.1	513.4	406.4	395.5
72.5°	552.8	533.1	439.2	347.4	343.0
75°	458.8	443.5	356.1	284.0	275.3
77.5°	369.2	356.1	279.7	216.3	209.7
80°	281.9	268.7	201.0	157.3	163.9
82.5°	207.6	190.1	135.5	122.4	128.9
85°	126.7	111.4	87.4	83.0	83.0
87.5°	43.7	41.5	39.3	45.9	48.1
90°	6.6	30.6	52.4	65.5	69.9
92.5°	37.1	54.6	72.1	85.2	89.6
95°	69.9	94.0	107.1	157.3	170.4
97.5°	96.1	124.5	139.8	185.7	198.8
100°	122.4	148.6	196.6	220.7	236.0
102.5°	144.2	163.9	231.6	279.7	288.4
105°	163.9	170.4	244.7	327.7	347.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	196.6	174.8	262.2	356.1	391.1
115°	203.2	172.6	260.0	358.3	393.3
117.5°	203.2	172.6	253.4	358.3	393.3
120°	198.8	174.8	244.7	354.0	391.1
122.5°	194.5	170.4	236.0	345.2	382.4
125°	187.9	166.1	225.0	329.9	371.4
127.5°	177.0	170.4	214.1	310.3	351.8
130°	168.2	172.6	201.0	290.6	332.1
132.5°	161.7	168.2	187.9	268.7	305.9
135°	152.9	166.1	181.3	244.7	281.9
137.5°	146.4	159.5	170.4	222.9	253.4
140°	139.8	155.1	159.5	194.5	220.7
142.5°	131.1	148.6	150.8	181.3	192.3
145°	124.5	144.2	157.3	168.2	179.2
147.5°	118.0	135.5	152.9	155.1	166.1
150°	115.8	126.7	146.4	148.6	152.9
152.5°	113.6	122.4	135.5	148.6	150.8
155°	113.6	120.2	128.9	139.8	142.0
157.5°	111.4	120.2	124.5	133.3	135.5
160°	111.4	118.0	122.4	128.9	131.1
162.5°	111.4	118.0	120.2	126.7	128.9
165°	111.4	115.8	120.2	124.5	124.5
167.5°	111.4	115.8	118.0	122.4	122.4
170°	111.4	113.6	118.0	120.2	120.2
172.5°	109.2	113.6	115.8	120.2	120.2
175°	109.2	111.4	113.6	115.8	118.0
177.5°	104.9	111.4	113.6	115.8	113.6
180°	107.1	107.1	107.1	107.1	107.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	179.2	172.6	253.4	345.2	373.6
110°	190.1	174.8	260.0	351.8	386.7



(END OF REPORT)