

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: P520631

Luminaire Tested: **8WSLA-100-L835-UPL15-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520631  
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-L835-UPL15-UNV-U  
Description: 8 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 15% UPLIGHT  
Light Source: -  
Ballast/Driver: -

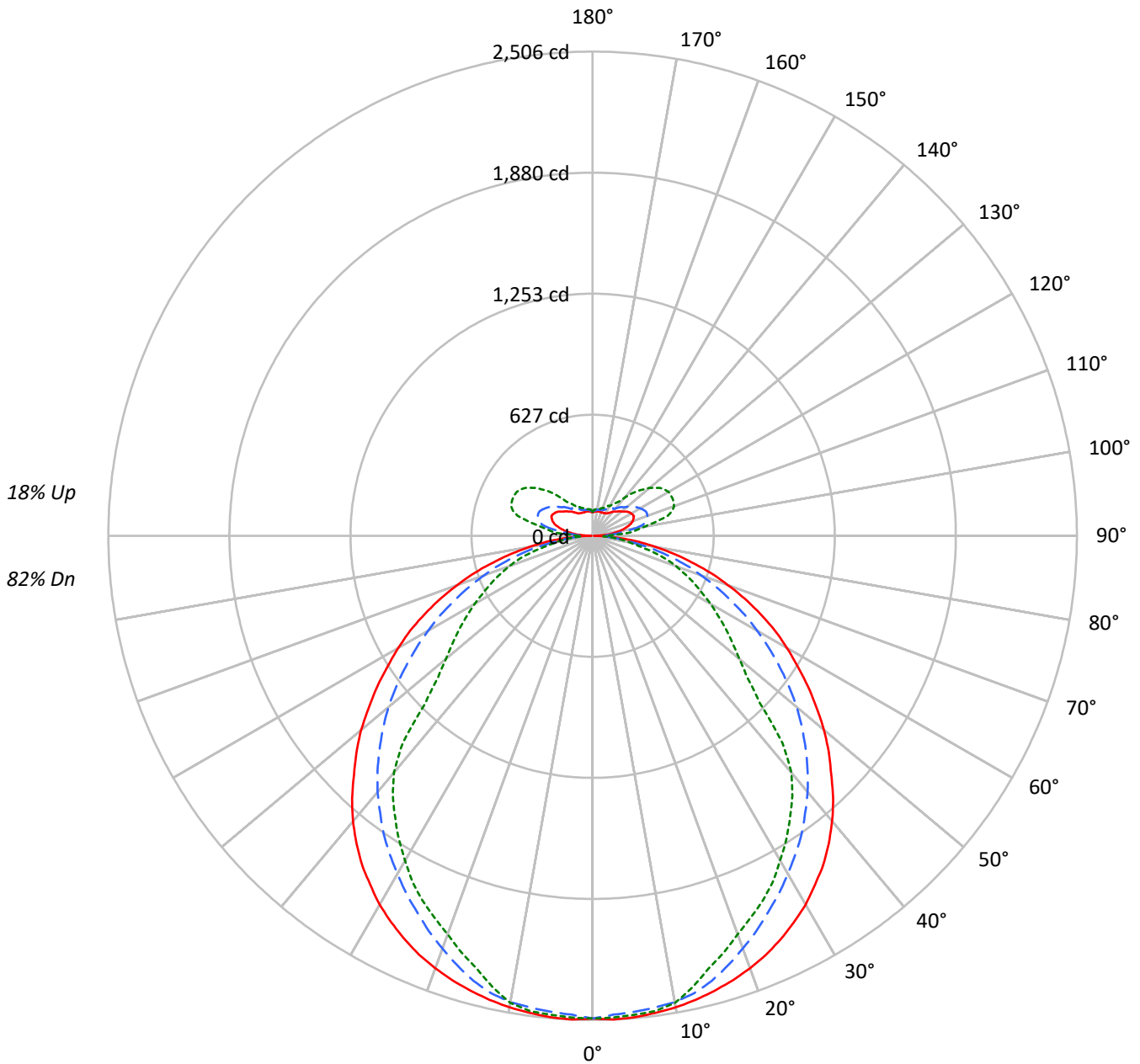
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8092.0 lumens  
Efficiency: N/A  
Efficacy: 127.6 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

TEST NUMBER: P520631

CATALOG NUMBER: 8WSLA-100-L835-UPL15-UNV-U

### 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°	6724	6724	6724
5°	6756	6681	6722
10°	6772	6696	6710
15°	6791	6643	6460
20°	6821	6509	6284
25°	6839	6380	6185
30°	6850	6275	6032
35°	6835	6193	5852
40°	6774	6080	5617
45°	6645	5931	4658
50°	6545	5771	4148
55°	6384	5540	3947
60°	6246	5292	3792
65°	6099	5002	3679
70°	5862	4685	3609
75°	5533	4295	3320
80°	5066	3612	2946
85°	4539	3131	2973



TEST NUMBER: P520631

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.8	2.9
10°-20°	672.7	8.3
20°-30°	1003.9	12.4
30°-40°	1196.2	14.8
40°-50°	1189.8	14.7
50°-60°	1019.7	12.6
60°-70°	768.0	9.5
70°-80°	444.8	5.5
80°-90°	133.7	1.7
90°-100°	143.5	1.8
100°-110°	294.7	3.6
110°-120°	311.6	3.9
120°-130°	260.0	3.2
130°-140°	181.6	2.2
140°-150°	113.0	1.4
150°-160°	70.1	0.9
160°-170°	39.5	0.5
170°-180°	12.7	0.2
0°-30°	1913.4	23.6
0°-40°	3109.5	38.4
0°-60°	5319.0	65.7
0°-90°	6665.4	82.4
90°-120°	749.8	9.3
90°-150°	1304.4	16.1
90°-180°	1427.0	17.6
0°-180°	8092.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2499	2499	2499	2499	2499	
5°	2501	2494	2473	2491	2488	238
15°	2438	2435	2385	2344	2319	689
25°	2304	2270	2149	2096	2083	1062
35°	2080	2025	1885	1812	1781	1299
45°	1746	1703	1558	1404	1224	1350
55°	1361	1340	1181	938	841	1217
65°	958	935	786	611	578	947
75°	532	514	413	329	319	564
85°	147	129	101	96	96	157
90°	8	36	61	76	81	15
95°	81	109	124	182	198	78
105°	190	198	284	380	403	197
115°	236	200	302	416	456	229
125°	218	193	261	383	431	194
135°	177	193	210	284	327	138
145°	144	167	182	195	208	92
155°	132	139	150	162	165	61
165°	129	134	139	144	144	37
175°	127	129	132	134	137	12
180°	124	124	124	124	124	



TEST NUMBER: P520631

CATALOG NUMBER: 8WSLA-100-L835-UPL15-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2498.6	2498.6	2498.6	2498.6	2498.6
2.5°	2506.2	2501.1	2480.8	2501.1	2496.1
5°	2501.1	2493.5	2473.2	2491.0	2488.4
7.5°	2491.0	2485.9	2463.1	2483.4	2480.8
10°	2478.3	2470.7	2450.4	2465.6	2455.5
12.5°	2460.6	2455.5	2425.1	2412.4	2392.2
15°	2437.8	2435.2	2384.6	2344.0	2318.7
17.5°	2412.4	2402.3	2331.3	2283.2	2260.4
20°	2382.0	2366.8	2273.1	2217.3	2194.5
22.5°	2346.5	2323.7	2214.8	2161.6	2138.7
25°	2303.5	2270.5	2148.9	2095.7	2083.0
27.5°	2255.3	2217.3	2088.1	2034.9	2019.6
30°	2204.6	2156.5	2019.6	1969.0	1941.1
32.5°	2141.3	2095.7	1953.8	1895.5	1865.1
35°	2080.5	2024.7	1885.3	1811.9	1781.4
37.5°	2007.0	1951.2	1806.8	1733.3	1697.8
40°	1928.4	1872.7	1730.8	1644.6	1599.0
42.5°	1842.3	1791.6	1647.1	1543.2	1454.6
45°	1746.0	1702.9	1558.4	1403.9	1224.0
47.5°	1657.3	1616.7	1469.8	1269.6	1084.6
50°	1563.5	1525.5	1378.5	1142.9	990.8
52.5°	1459.6	1431.7	1279.7	1033.9	912.3
55°	1360.8	1340.5	1180.9	937.6	841.3
57.5°	1256.9	1236.6	1082.0	846.4	770.4
60°	1160.6	1140.3	983.2	765.3	704.5
62.5°	1064.3	1036.4	886.9	686.7	636.0
65°	957.9	935.1	785.6	610.7	577.8
67.5°	851.4	831.2	691.8	539.8	516.9
70°	745.0	727.3	595.5	471.3	458.7
72.5°	641.1	618.3	509.3	402.9	397.8
75°	532.2	514.4	413.1	329.4	319.3
77.5°	428.3	413.1	324.4	250.9	243.3
80°	326.9	311.7	233.1	182.5	190.1
82.5°	240.7	220.5	157.1	141.9	149.5
85°	147.0	129.2	101.4	96.3	96.3
87.5°	50.7	48.1	45.6	53.2	55.7
90°	7.6	35.5	60.8	76.0	81.1
92.5°	43.1	63.4	83.6	98.8	103.9
95°	81.1	109.0	124.2	182.5	197.7
97.5°	111.5	144.4	162.2	215.4	230.6
100°	141.9	172.3	228.1	255.9	273.7
102.5°	167.2	190.1	268.6	324.4	334.5
105°	190.1	197.7	283.8	380.1	402.9



TEST NUMBER: P520631

CATALOG NUMBER: 8WSLA-100-L835-UPL15-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	228.1	202.7	304.1	413.1	453.6
115°	235.7	200.2	301.6	415.6	456.1
117.5°	235.7	200.2	294.0	415.6	456.1
120°	230.6	202.7	283.8	410.5	453.6
122.5°	225.5	197.7	273.7	400.4	443.5
125°	217.9	192.6	261.0	382.6	430.8
127.5°	205.3	197.7	248.3	359.8	408.0
130°	195.1	200.2	233.1	337.0	385.2
132.5°	187.5	195.1	217.9	311.7	354.8
135°	177.4	192.6	210.3	283.8	326.9
137.5°	169.8	185.0	197.7	258.5	294.0
140°	162.2	179.9	185.0	225.5	255.9
142.5°	152.0	172.3	174.9	210.3	223.0
145°	144.4	167.2	182.5	195.1	207.8
147.5°	136.8	157.1	177.4	179.9	192.6
150°	134.3	147.0	169.8	172.3	177.4
152.5°	131.8	141.9	157.1	172.3	174.9
155°	131.8	139.4	149.5	162.2	164.7
157.5°	129.2	139.4	144.4	154.6	157.1
160°	129.2	136.8	141.9	149.5	152.0
162.5°	129.2	136.8	139.4	147.0	149.5
165°	129.2	134.3	139.4	144.4	144.4
167.5°	129.2	134.3	136.8	141.9	141.9
170°	129.2	131.8	136.8	139.4	139.4
172.5°	126.7	131.8	134.3	139.4	139.4
175°	126.7	129.2	131.8	134.3	136.8
177.5°	121.6	129.2	131.8	134.3	131.8
180°	124.2	124.2	124.2	124.2	124.2



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	207.8	200.2	294.0	400.4	433.3
110°	220.5	202.7	301.6	408.0	448.5



(END OF REPORT)