

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: P520704

Luminaire Tested: **8WSLA-175-L835-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520704  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: 8WSLA-175-L835-UPL8-UNV-U  
Description: 8 FOOT, 3500 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

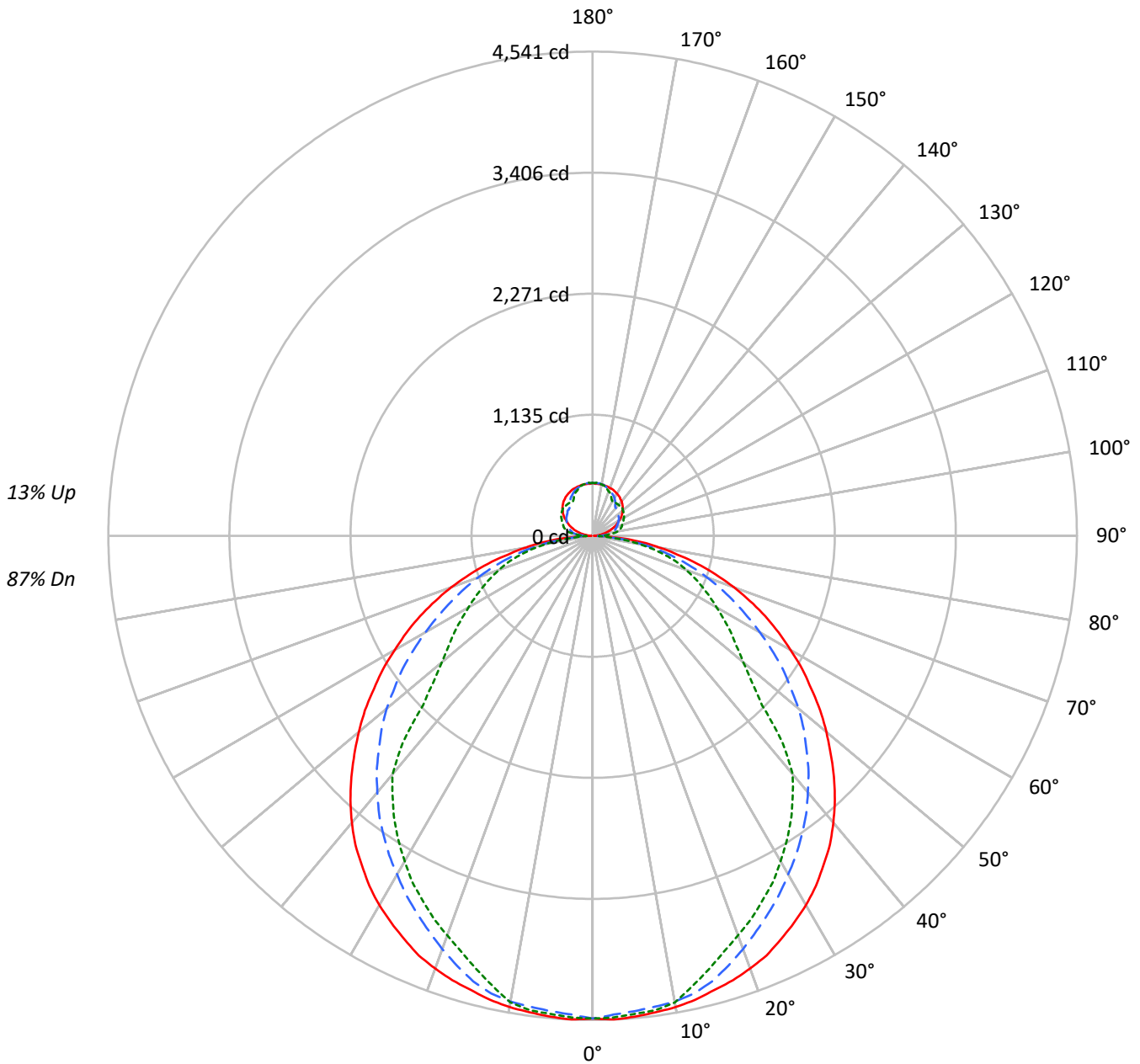
Lumens per Lamp: N/A  
Luminaire Lumens: 14091.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 119  
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73																			
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61																			
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51																			
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44																			
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38																			
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33																			
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30																			
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

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

	0°	45°	90°
0°	12184	12184	12184
5°	12231	12090	12160
10°	12265	12123	12141
15°	12287	12051	11724
20°	12369	11810	11417
25°	12399	11587	11200
30°	12429	11397	10952
35°	12392	11236	10658
40°	12335	11031	10253
45°	12173	10785	8554
50°	11973	10555	7719
55°	11737	10208	7427
60°	11536	9747	7223
65°	11366	9333	7218
70°	11072	8970	7330
75°	10567	8535	7383
80°	9893	7672	6865
85°	9053	5431	4625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.6	3.0
10°-20°	1218.6	8.6
20°-30°	1820.9	12.9
30°-40°	2173.6	15.4
40°-50°	2173.8	15.4
50°-60°	1881.3	13.4
60°-70°	1444.0	10.2
70°-80°	884.8	6.3
80°-90°	249.1	1.8
90°-100°	140.8	1.0
100°-110°	223.5	1.6
110°-120°	261.3	1.9
120°-130°	282.1	2.0
130°-140°	277.9	2.0
140°-150°	245.9	1.7
150°-160°	202.3	1.4
160°-170°	135.4	1.0
170°-180°	47.2	0.3
0°-30°	3468.1	24.6
0°-40°	5641.8	40.0
0°-60°	9696.9	68.8
0°-90°	12274.8	87.1
90°-120°	625.5	4.4
90°-150°	1431.3	10.2
90°-180°	1816.0	12.9
0°-180°	14091.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4528	4528	4528	4528	4528	
5°	4528	4515	4476	4508	4502	431
15°	4410	4404	4326	4248	4208	1248
25°	4176	4124	3902	3798	3772	1927
35°	3772	3674	3420	3296	3244	2362
45°	3199	3108	2834	2580	2248	2467
55°	2502	2443	2176	1739	1583	2243
65°	1785	1720	1466	1179	1134	1763
75°	1016	964	821	710	710	1072
85°	293	241	176	150	150	306
90°	13	46	72	91	98	21
95°	52	111	150	156	156	51
105°	150	156	222	261	274	157
115°	248	208	261	300	319	242
125°	332	267	300	345	358	296
135°	397	358	332	365	384	307
145°	443	424	371	365	378	276
155°	469	462	436	417	410	216
165°	482	489	476	476	476	137
175°	489	495	495	502	502	47
180°	495	495	495	495	495	



TEST NUMBER: P520704

CATALOG NUMBER: 8WSLA-175-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4527.8	4527.8	4527.8	4527.8	4527.8
2.5°	4540.8	4527.8	4495.2	4527.8	4521.3
5°	4527.8	4514.7	4475.7	4508.2	4501.7
7.5°	4508.2	4495.2	4456.1	4495.2	4488.7
10°	4488.7	4475.7	4436.6	4462.6	4443.1
12.5°	4456.1	4443.1	4397.5	4364.9	4325.8
15°	4410.5	4404.0	4325.8	4247.6	4208.5
17.5°	4371.4	4351.9	4228.1	4136.9	4091.3
20°	4319.3	4286.7	4123.9	4019.6	3987.0
22.5°	4260.7	4208.5	4013.1	3915.4	3889.3
25°	4176.0	4123.9	3902.4	3798.1	3772.1
27.5°	4091.3	4026.1	3791.6	3687.4	3661.3
30°	4000.1	3908.9	3667.8	3570.1	3524.5
32.5°	3895.8	3804.6	3550.6	3439.8	3387.7
35°	3772.1	3674.3	3420.3	3296.5	3244.4
37.5°	3654.8	3550.6	3290.0	3153.2	3081.5
40°	3511.5	3407.2	3140.1	2990.3	2918.6
42.5°	3361.6	3263.9	2996.8	2814.4	2638.5
45°	3198.8	3107.5	2833.9	2579.9	2247.6
47.5°	3029.4	2951.2	2684.1	2338.8	2019.6
50°	2860.0	2781.8	2521.2	2110.8	1843.7
52.5°	2690.6	2625.5	2338.8	1921.9	1700.4
55°	2501.7	2443.0	2175.9	1739.4	1583.1
57.5°	2332.3	2273.7	1987.0	1589.6	1459.3
60°	2143.4	2091.2	1811.1	1439.8	1342.0
62.5°	1967.5	1908.8	1635.2	1309.5	1237.8
65°	1785.0	1719.9	1465.8	1179.2	1133.6
67.5°	1596.1	1531.0	1303.0	1061.9	1035.8
70°	1407.2	1355.1	1140.1	944.6	931.6
72.5°	1211.7	1153.1	977.2	833.9	833.9
75°	1016.3	964.2	820.9	710.1	710.1
77.5°	814.3	788.3	658.0	579.8	586.3
80°	638.4	605.9	495.1	443.0	443.0
82.5°	469.1	430.0	332.3	293.2	306.2
85°	293.2	241.0	175.9	149.8	149.8
87.5°	91.2	71.7	52.1	58.6	58.6
90°	13.0	45.6	71.7	91.2	97.7
92.5°	32.6	84.7	104.2	123.8	130.3
95°	52.1	110.8	149.8	156.4	156.4
97.5°	71.7	123.8	182.4	208.5	208.5
100°	97.7	130.3	195.4	234.5	241.0
102.5°	123.8	143.3	208.5	247.6	260.6
105°	149.8	156.4	221.5	260.6	273.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	221.5	195.4	247.6	293.2	306.2
115°	247.6	208.5	260.6	299.7	319.2
117.5°	267.1	228.0	273.6	312.7	325.7
120°	286.7	241.0	280.1	325.7	338.8
122.5°	312.7	254.1	293.2	332.3	351.8
125°	332.3	267.1	299.7	345.3	358.3
127.5°	351.8	293.2	306.2	351.8	364.8
130°	364.8	319.2	312.7	358.3	371.3
132.5°	384.4	338.8	319.2	364.8	377.9
135°	397.4	358.3	332.3	364.8	384.4
137.5°	410.4	377.9	332.3	364.8	377.9
140°	423.5	397.4	338.8	364.8	377.9
142.5°	430.0	410.4	345.3	364.8	377.9
145°	443.0	423.5	371.3	364.8	377.9
147.5°	449.5	436.5	390.9	364.8	377.9
150°	456.0	449.5	410.4	371.3	371.3
152.5°	462.5	456.0	423.5	397.4	384.4
155°	469.1	462.5	436.5	416.9	410.4
157.5°	475.6	475.6	449.5	436.5	430.0
160°	475.6	482.1	462.5	449.5	443.0
162.5°	482.1	488.6	469.1	462.5	456.0
165°	482.1	488.6	475.6	475.6	475.6
167.5°	488.6	495.1	488.6	482.1	482.1
170°	488.6	495.1	488.6	488.6	488.6
172.5°	488.6	495.1	495.1	495.1	495.1
175°	488.6	495.1	495.1	501.6	501.6
177.5°	488.6	495.1	495.1	495.1	495.1
180°	495.1	495.1	495.1	495.1	495.1



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	175.9	169.4	228.0	273.6	286.7
110°	195.4	182.4	241.0	280.1	293.2



(END OF REPORT)