

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: P520557

Luminaire Tested: **4WSLA-200-L830-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520557  
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: 4WSLA-200-L830-UPL8-UNV-U  
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

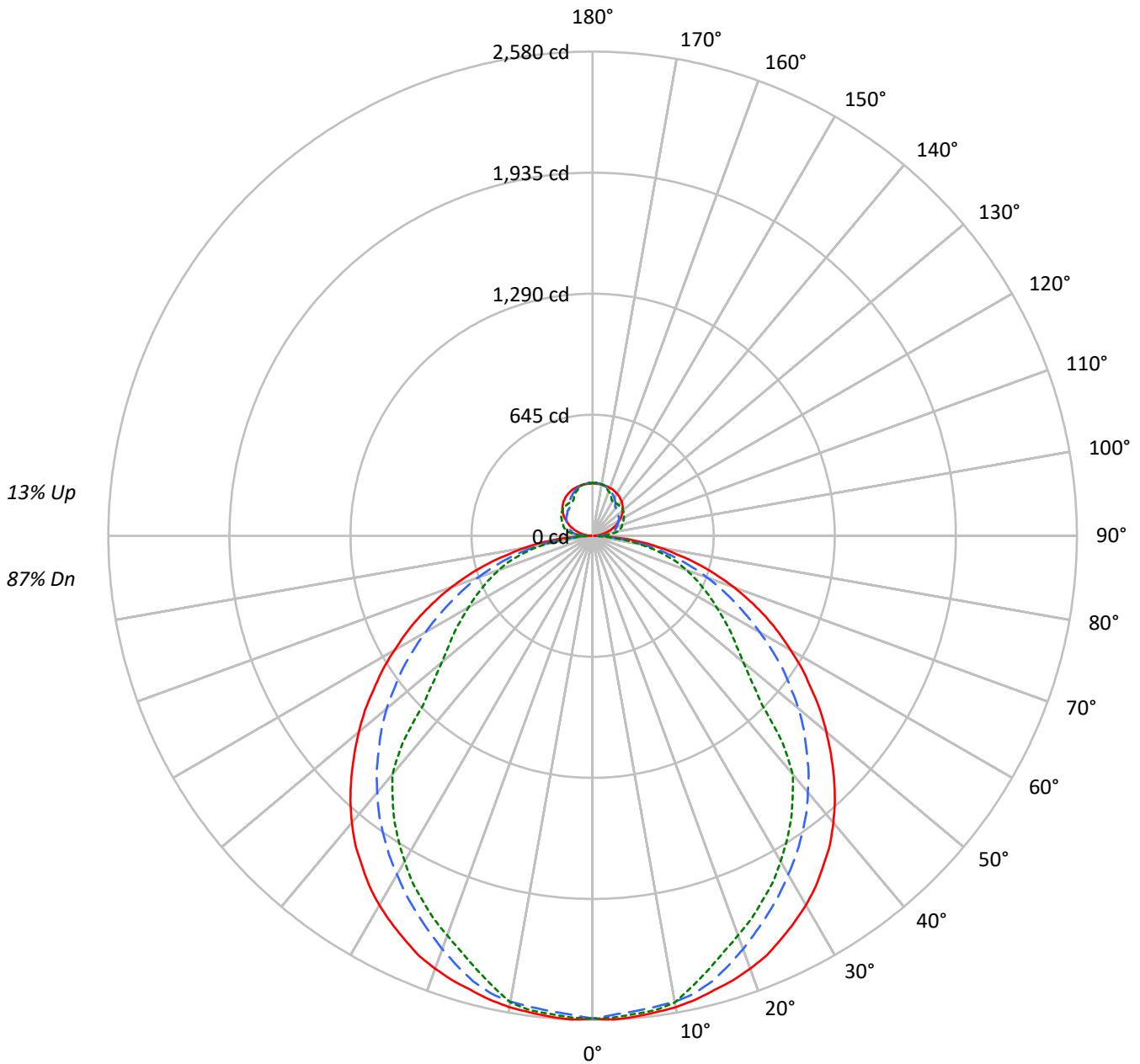
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8007.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 76.3  
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: P520557

CATALOG NUMBER: 4WSLA-200-L830-UPL8-UNV-U

### Luminous Intensity Polar Plot





TEST NUMBER: P520557

CATALOG NUMBER: 4WSLA-200-L830-UPL8-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	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°	13847	13847	13847
5°	13900	13740	13820
10°	13939	13777	13797
15°	13964	13696	13324
20°	14057	13421	12976
25°	14091	13168	12728
30°	14126	12952	12446
35°	14082	12769	12113
40°	14018	12536	11652
45°	13834	12256	9721
50°	13607	11995	8771
55°	13338	11601	8441
60°	13109	11077	8209
65°	12917	10607	8202
70°	12582	10194	8331
75°	12009	9698	8390
80°	11244	8718	7801
85°	10288	6175	5255



TEST NUMBER: P520557

CATALOG NUMBER: 4WSLA-200-L830-UPL8-UNV-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	243.6	3.0
10°-20°	692.5	8.6
20°-30°	1034.7	12.9
30°-40°	1235.1	15.4
40°-50°	1235.2	15.4
50°-60°	1069.0	13.4
60°-70°	820.5	10.2
70°-80°	502.8	6.3
80°-90°	141.5	1.8
90°-100°	80.0	1.0
100°-110°	127.0	1.6
110°-120°	148.5	1.9
120°-130°	160.3	2.0
130°-140°	157.9	2.0
140°-150°	139.7	1.7
150°-160°	115.0	1.4
160°-170°	76.9	1.0
170°-180°	26.8	0.3
0°-30°	1970.7	24.6
0°-40°	3205.8	40.0
0°-60°	5510.1	68.8
0°-90°	6974.9	87.1
90°-120°	355.4	4.4
90°-150°	813.3	10.2
90°-180°	1032.0	12.9
0°-180°	8007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2573	2573	2573	2573	2573	
5°	2573	2565	2543	2562	2558	245
15°	2506	2502	2458	2414	2391	709
25°	2373	2343	2218	2158	2143	1095
35°	2143	2088	1944	1873	1844	1342
45°	1818	1766	1610	1466	1277	1402
55°	1422	1388	1236	988	900	1274
65°	1014	977	833	670	644	1002
75°	578	548	466	404	404	609
85°	167	137	100	85	85	174
90°	7	26	41	52	56	12
95°	30	63	85	89	89	29
105°	85	89	126	148	156	89
115°	141	118	148	170	181	137
125°	189	152	170	196	204	168
135°	226	204	189	207	218	174
145°	252	241	211	207	215	157
155°	266	263	248	237	233	123
165°	274	278	270	270	270	78
175°	278	281	281	285	285	27
180°	281	281	281	281	281	



TEST NUMBER: P520557

CATALOG NUMBER: 4WSLA-200-L830-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2572.8	2572.8	2572.8	2572.8	2572.8
2.5°	2580.2	2572.8	2554.3	2572.8	2569.1
5°	2572.8	2565.4	2543.2	2561.7	2558.0
7.5°	2561.7	2554.3	2532.1	2554.3	2550.6
10°	2550.6	2543.2	2521.0	2535.8	2524.7
12.5°	2532.1	2524.7	2498.8	2480.3	2458.1
15°	2506.2	2502.5	2458.1	2413.7	2391.4
17.5°	2484.0	2472.9	2402.5	2350.7	2324.8
20°	2454.4	2435.9	2343.3	2284.1	2265.6
22.5°	2421.1	2391.4	2280.4	2224.9	2210.0
25°	2372.9	2343.3	2217.5	2158.2	2143.4
27.5°	2324.8	2287.8	2154.5	2095.3	2080.5
30°	2273.0	2221.2	2084.2	2028.7	2002.7
32.5°	2213.8	2161.9	2017.5	1954.6	1925.0
35°	2143.4	2087.9	1943.5	1873.2	1843.6
37.5°	2076.8	2017.5	1869.5	1791.7	1751.0
40°	1995.3	1936.1	1784.3	1699.2	1658.5
42.5°	1910.2	1854.7	1702.9	1599.2	1499.3
45°	1817.6	1765.8	1610.3	1466.0	1277.2
47.5°	1721.4	1677.0	1525.2	1329.0	1147.6
50°	1625.1	1580.7	1432.6	1199.4	1047.6
52.5°	1528.9	1491.9	1329.0	1092.1	966.2
55°	1421.5	1388.2	1236.4	988.4	899.6
57.5°	1325.3	1292.0	1129.1	903.3	829.2
60°	1217.9	1188.3	1029.1	818.1	762.6
62.5°	1118.0	1084.7	929.2	744.1	703.4
65°	1014.3	977.3	832.9	670.0	644.1
67.5°	907.0	870.0	740.4	603.4	588.6
70°	799.6	770.0	647.8	536.8	529.4
72.5°	688.6	655.2	555.3	473.8	473.8
75°	577.5	547.9	466.4	403.5	403.5
77.5°	462.7	447.9	373.9	329.5	333.2
80°	362.8	344.3	281.3	251.7	251.7
82.5°	266.5	244.3	188.8	166.6	174.0
85°	166.6	137.0	100.0	85.1	85.1
87.5°	51.8	40.7	29.6	33.3	33.3
90°	7.4	25.9	40.7	51.8	55.5
92.5°	18.5	48.1	59.2	70.3	74.0
95°	29.6	62.9	85.1	88.8	88.8
97.5°	40.7	70.3	103.7	118.5	118.5
100°	55.5	74.0	111.1	133.3	137.0
102.5°	70.3	81.4	118.5	140.7	148.1
105°	85.1	88.8	125.9	148.1	155.5



TEST NUMBER: P520557

CATALOG NUMBER: 4WSLA-200-L830-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	125.9	111.1	140.7	166.6	174.0
115°	140.7	118.5	148.1	170.3	181.4
117.5°	151.8	129.6	155.5	177.7	185.1
120°	162.9	137.0	159.2	185.1	192.5
122.5°	177.7	144.4	166.6	188.8	199.9
125°	188.8	151.8	170.3	196.2	203.6
127.5°	199.9	166.6	174.0	199.9	207.3
130°	207.3	181.4	177.7	203.6	211.0
132.5°	218.4	192.5	181.4	207.3	214.7
135°	225.8	203.6	188.8	207.3	218.4
137.5°	233.2	214.7	188.8	207.3	214.7
140°	240.6	225.8	192.5	207.3	214.7
142.5°	244.3	233.2	196.2	207.3	214.7
145°	251.7	240.6	211.0	207.3	214.7
147.5°	255.4	248.0	222.1	207.3	214.7
150°	259.1	255.4	233.2	211.0	211.0
152.5°	262.8	259.1	240.6	225.8	218.4
155°	266.5	262.8	248.0	236.9	233.2
157.5°	270.2	270.2	255.4	248.0	244.3
160°	270.2	273.9	262.8	255.4	251.7
162.5°	273.9	277.6	266.5	262.8	259.1
165°	273.9	277.6	270.2	270.2	270.2
167.5°	277.6	281.3	277.6	273.9	273.9
170°	277.6	281.3	277.6	277.6	277.6
172.5°	277.6	281.3	281.3	281.3	281.3
175°	277.6	281.3	281.3	285.0	285.0
177.5°	277.6	281.3	281.3	281.3	281.3
180°	281.3	281.3	281.3	281.3	281.3



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	<i>100.0</i>	96.3	129.6	155.5	162.9
110°	<i>111.1</i>	103.7	137.0	159.2	166.6



(END OF REPORT)