

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: P520560

Luminaire Tested: **4WSLA-200-L835-UPL8-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520560  
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-L835-UPL8-UNV-U  
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

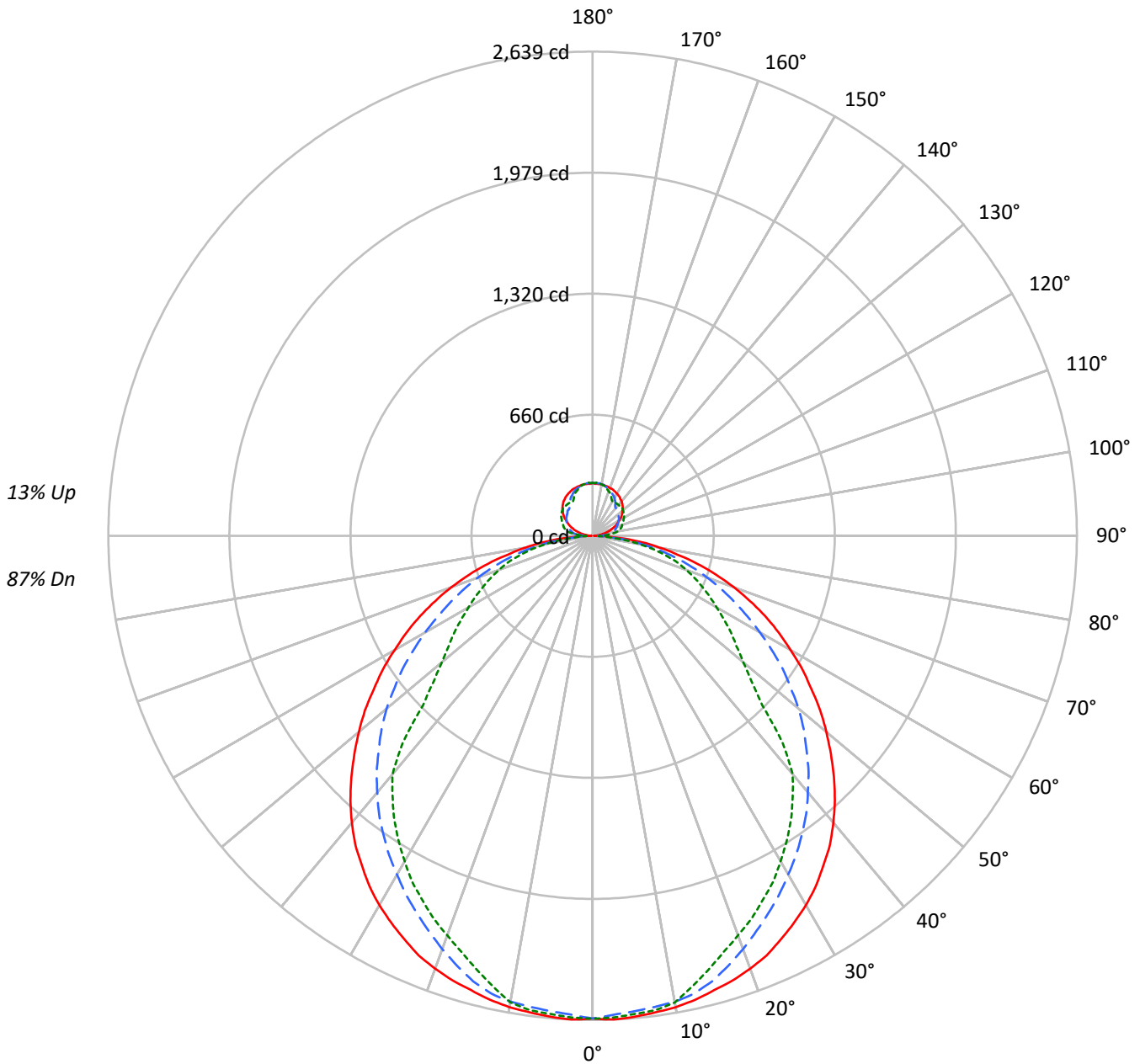
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8190.0 lumens  
Efficiency: N/A  
Efficacy: 107.3 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

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				20	
RC	80				70				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				87
1	106	101	97	93	102	98	94	90	91	88	85	85	83	80	79	78	76	73				73
2	96	88	82	76	92	85	79	74	80	75	70	74	70	67	70	66	64	61				61
3	88	78	70	63	84	75	68	62	70	64	59	66	61	56	62	58	54	51				51
4	80	69	60	54	77	67	59	53	62	56	50	59	53	48	55	50	46	44				44
5	74	61	53	46	71	60	51	45	56	49	44	53	47	42	50	45	40	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	30				30
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	38	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24				24
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22				22

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

	0°	45°	90°
0°	14163	14163	14163
5°	14217	14054	14136
10°	14258	14092	14113
15°	14283	14009	13629
20°	14379	13728	13273
25°	14414	13469	13019
30°	14448	13248	12731
35°	14404	13061	12389
40°	14339	12823	11918
45°	14151	12536	9943
50°	13918	12270	8972
55°	13643	11867	8633
60°	13410	11331	8396
65°	13212	10850	8391
70°	12870	10427	8521
75°	12283	9921	8582
80°	11502	8920	7981
85°	10522	6311	5379



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	249.1	3.0
10°-20°	708.3	8.6
20°-30°	1058.3	12.9
30°-40°	1263.3	15.4
40°-50°	1263.5	15.4
50°-60°	1093.5	13.4
60°-70°	839.3	10.2
70°-80°	514.3	6.3
80°-90°	144.8	1.8
90°-100°	81.8	1.0
100°-110°	129.9	1.6
110°-120°	151.8	1.9
120°-130°	163.9	2.0
130°-140°	161.5	2.0
140°-150°	142.9	1.7
150°-160°	117.6	1.4
160°-170°	78.7	1.0
170°-180°	27.4	0.3
0°-30°	2015.8	24.6
0°-40°	3279.1	40.0
0°-60°	5636.0	68.8
0°-90°	7134.4	87.1
90°-120°	363.5	4.4
90°-150°	831.9	10.2
90°-180°	1056.0	12.9
0°-180°	8190.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2632	2632	2632	2632	2632	
5°	2632	2624	2601	2620	2616	250
15°	2564	2560	2514	2469	2446	725
25°	2427	2397	2268	2208	2192	1120
35°	2192	2136	1988	1916	1886	1373
45°	1859	1806	1647	1500	1306	1434
55°	1454	1420	1265	1011	920	1303
65°	1038	1000	852	685	659	1025
75°	591	560	477	413	413	623
85°	170	140	102	87	87	178
90°	8	26	42	53	57	12
95°	30	64	87	91	91	30
105°	87	91	129	152	159	91
115°	144	121	152	174	186	141
125°	193	155	174	201	208	172
135°	231	208	193	212	223	178
145°	258	246	216	212	220	161
155°	273	269	254	242	239	126
165°	280	284	276	276	276	80
175°	284	288	288	292	292	27
180°	288	288	288	288	288	



TEST NUMBER: P520560

CATALOG NUMBER: 4WSLA-200-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2631.6	2631.6	2631.6	2631.6	2631.6
2.5°	2639.2	2631.6	2612.7	2631.6	2627.9
5°	2631.6	2624.1	2601.3	2620.3	2616.5
7.5°	2620.3	2612.7	2590.0	2612.7	2608.9
10°	2608.9	2601.3	2578.6	2593.8	2582.4
12.5°	2590.0	2582.4	2555.9	2537.0	2514.3
15°	2563.5	2559.7	2514.3	2468.8	2446.1
17.5°	2540.8	2529.4	2457.5	2404.4	2377.9
20°	2510.5	2491.5	2396.9	2336.3	2317.4
22.5°	2476.4	2446.1	2332.5	2275.7	2260.6
25°	2427.2	2396.9	2268.1	2207.5	2192.4
27.5°	2377.9	2340.1	2203.8	2143.2	2128.0
30°	2324.9	2271.9	2131.8	2075.0	2048.5
32.5°	2264.3	2211.3	2063.7	1999.3	1969.0
35°	2192.4	2135.6	1987.9	1916.0	1885.7
37.5°	2124.2	2063.7	1912.2	1832.7	1791.0
40°	2040.9	1980.4	1825.1	1738.0	1696.4
42.5°	1953.9	1897.1	1741.8	1635.8	1533.5
45°	1859.2	1806.2	1647.1	1499.5	1306.4
47.5°	1760.7	1715.3	1560.1	1359.4	1173.8
50°	1662.3	1616.8	1465.4	1226.8	1071.6
52.5°	1563.8	1526.0	1359.4	1117.0	988.3
55°	1454.0	1419.9	1264.7	1011.0	920.1
57.5°	1355.6	1321.5	1154.9	923.9	848.2
60°	1245.8	1215.5	1052.7	836.8	780.0
62.5°	1143.5	1109.5	950.4	761.1	719.4
65°	1037.5	999.6	852.0	685.4	658.9
67.5°	927.7	889.8	757.3	617.2	602.1
70°	817.9	787.6	662.6	549.0	541.5
72.5°	704.3	670.2	568.0	484.7	484.7
75°	590.7	560.4	477.1	412.7	412.7
77.5°	473.3	458.2	382.4	337.0	340.8
80°	371.1	352.1	287.8	257.5	257.5
82.5°	272.6	249.9	193.1	170.4	178.0
85°	170.4	140.1	102.2	87.1	87.1
87.5°	53.0	41.7	30.3	34.1	34.1
90°	7.6	26.5	41.7	53.0	56.8
92.5°	18.9	49.2	60.6	71.9	75.7
95°	30.3	64.4	87.1	90.9	90.9
97.5°	41.7	71.9	106.0	121.2	121.2
100°	56.8	75.7	113.6	136.3	140.1
102.5°	71.9	83.3	121.2	143.9	151.5
105°	87.1	90.9	128.7	151.5	159.0



TEST NUMBER: P520560

CATALOG NUMBER: 4WSLA-200-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	128.7	113.6	143.9	170.4	178.0
115°	143.9	121.2	151.5	174.2	185.5
117.5°	155.2	132.5	159.0	181.8	189.3
120°	166.6	140.1	162.8	189.3	196.9
122.5°	181.8	147.7	170.4	193.1	204.5
125°	193.1	155.2	174.2	200.7	208.3
127.5°	204.5	170.4	178.0	204.5	212.0
130°	212.0	185.5	181.8	208.3	215.8
132.5°	223.4	196.9	185.5	212.0	219.6
135°	231.0	208.3	193.1	212.0	223.4
137.5°	238.6	219.6	193.1	212.0	219.6
140°	246.1	231.0	196.9	212.0	219.6
142.5°	249.9	238.6	200.7	212.0	219.6
145°	257.5	246.1	215.8	212.0	219.6
147.5°	261.3	253.7	227.2	212.0	219.6
150°	265.1	261.3	238.6	215.8	215.8
152.5°	268.8	265.1	246.1	231.0	223.4
155°	272.6	268.8	253.7	242.3	238.6
157.5°	276.4	276.4	261.3	253.7	249.9
160°	276.4	280.2	268.8	261.3	257.5
162.5°	280.2	284.0	272.6	268.8	265.1
165°	280.2	284.0	276.4	276.4	276.4
167.5°	284.0	287.8	284.0	280.2	280.2
170°	284.0	287.8	284.0	284.0	284.0
172.5°	284.0	287.8	287.8	287.8	287.8
175°	284.0	287.8	287.8	291.6	291.6
177.5°	284.0	287.8	287.8	287.8	287.8
180°	287.8	287.8	287.8	287.8	287.8



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	102.2	98.4	132.5	159.0	166.6
110°	113.6	106.0	140.1	162.8	170.4



(END OF REPORT)