

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: P520536

Luminaire Tested: **4WSLA-175-L835-UPL8-UNV-U**

Issue Date: 5/3/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P520536  
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-175-L835-UPL8-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

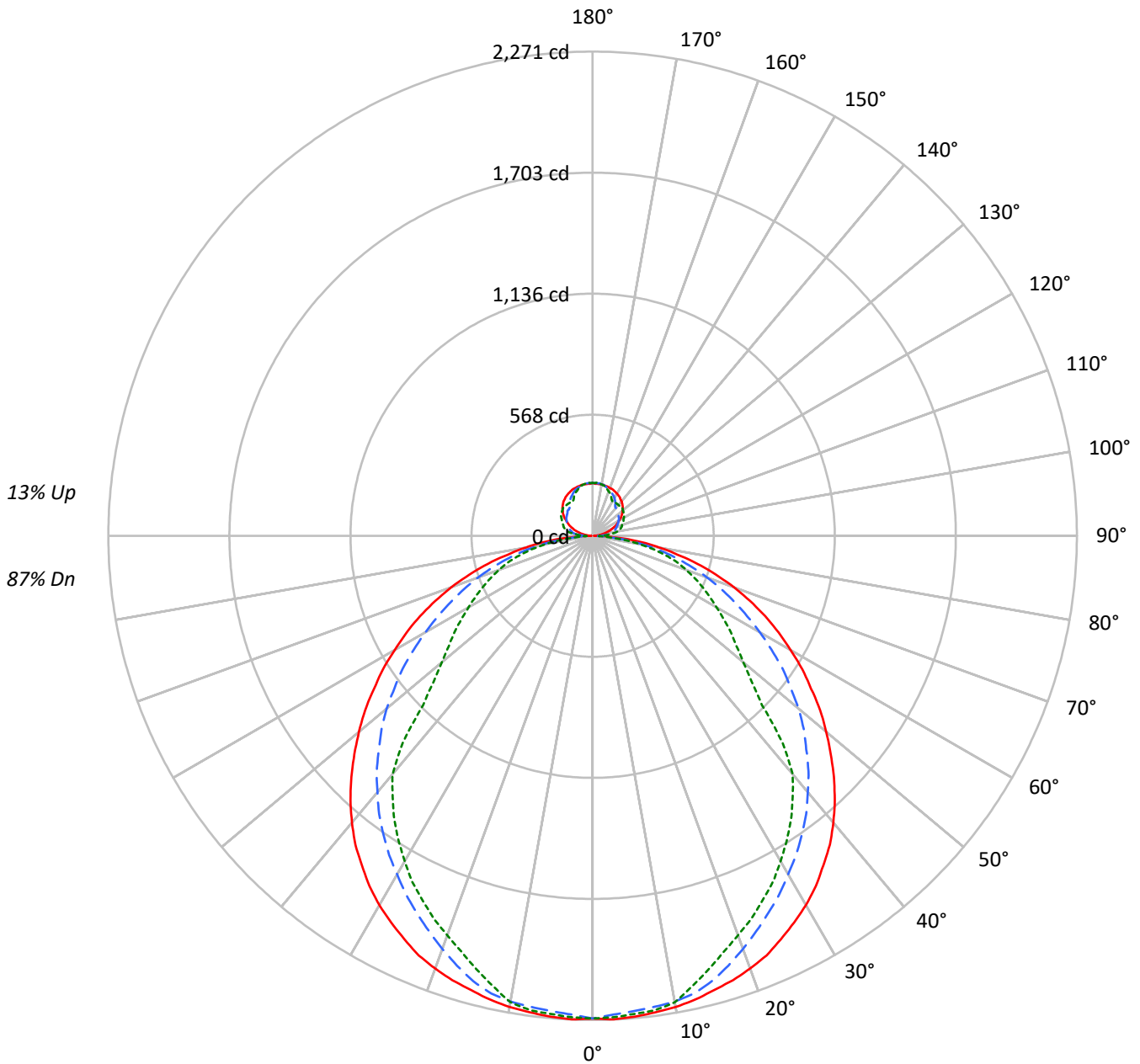
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7046.0 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: 4' x H: 0')  
CIE Type: Semi-Direct  
  
Input Watts (W): 59.5  
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°	12185	12185	12185
5°	12231	12091	12161
10°	12266	12124	12142
15°	12288	12052	11725
20°	12370	11810	11419
25°	12400	11587	11201
30°	12430	11397	10953
35°	12393	11237	10659
40°	12336	11032	10253
45°	12174	10786	8554
50°	11974	10556	7719
55°	11737	10209	7428
60°	11537	9748	7224
65°	11367	9335	7218
70°	11072	8971	7330
75°	10568	8536	7384
80°	9893	7674	6865
85°	9053	5434	4625



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.3	3.0
10°-20°	609.4	8.6
20°-30°	910.5	12.9
30°-40°	1086.9	15.4
40°-50°	1087.0	15.4
50°-60°	940.7	13.4
60°-70°	722.1	10.2
70°-80°	442.4	6.3
80°-90°	124.5	1.8
90°-100°	70.4	1.0
100°-110°	111.7	1.6
110°-120°	130.6	1.9
120°-130°	141.0	2.0
130°-140°	139.0	2.0
140°-150°	122.9	1.7
150°-160°	101.2	1.4
160°-170°	67.7	1.0
170°-180°	23.6	0.3
0°-30°	1734.2	24.6
0°-40°	2821.1	40.0
0°-60°	4848.8	68.8
0°-90°	6137.8	87.1
90°-120°	312.8	4.4
90°-150°	715.7	10.2
90°-180°	908.0	12.9
0°-180°	7046.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2264	2264	2264	2264	2264	
5°	2264	2258	2238	2254	2251	215
15°	2205	2202	2163	2124	2104	624
25°	2088	2062	1951	1899	1886	963
35°	1886	1837	1710	1648	1622	1181
45°	1600	1554	1417	1290	1124	1233
55°	1251	1222	1088	870	792	1121
65°	893	860	733	590	567	882
75°	508	482	410	355	355	536
85°	147	120	88	75	75	153
90°	6	23	36	46	49	10
95°	26	55	75	78	78	26
105°	75	78	111	130	137	79
115°	124	104	130	150	160	121
125°	166	134	150	173	179	148
135°	199	179	166	182	192	153
145°	222	212	186	182	189	138
155°	234	231	218	208	205	108
165°	241	244	238	238	238	68
175°	244	248	248	251	251	23
180°	248	248	248	248	248	



TEST NUMBER: P520536

CATALOG NUMBER: 4WSLA-175-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2264.0	2264.0	2264.0	2264.0	2264.0
2.5°	2270.6	2264.0	2247.8	2264.0	2260.8
5°	2264.0	2257.5	2238.0	2254.3	2251.0
7.5°	2254.3	2247.8	2228.2	2247.8	2244.5
10°	2244.5	2238.0	2218.4	2231.5	2221.7
12.5°	2228.2	2221.7	2198.9	2182.6	2163.1
15°	2205.4	2202.2	2163.1	2124.0	2104.4
17.5°	2185.9	2176.1	2114.2	2068.6	2045.8
20°	2159.8	2143.5	2062.1	2010.0	1993.7
22.5°	2130.5	2104.4	2006.7	1957.8	1944.8
25°	2088.1	2062.1	1951.3	1899.2	1886.2
27.5°	2045.8	2013.2	1895.9	1843.8	1830.8
30°	2000.2	1954.6	1834.0	1785.2	1762.4
32.5°	1948.1	1902.4	1775.4	1720.0	1694.0
35°	1886.2	1837.3	1710.3	1648.4	1622.3
37.5°	1827.5	1775.4	1645.1	1576.7	1540.9
40°	1755.9	1703.7	1570.2	1495.2	1459.4
42.5°	1680.9	1632.1	1498.5	1407.3	1319.3
45°	1599.5	1553.9	1417.1	1290.0	1123.9
47.5°	1514.8	1475.7	1342.1	1169.5	1009.9
50°	1430.1	1391.0	1260.7	1055.5	921.9
52.5°	1345.4	1312.8	1169.5	961.0	850.2
55°	1250.9	1221.6	1088.0	869.8	791.6
57.5°	1166.2	1136.9	993.6	794.9	729.7
60°	1071.8	1045.7	905.6	719.9	671.1
62.5°	983.8	954.5	817.7	654.8	618.9
65°	892.6	860.0	733.0	589.6	566.8
67.5°	798.1	765.5	651.5	531.0	518.0
70°	703.6	677.6	570.1	472.4	465.8
72.5°	605.9	576.6	488.6	417.0	417.0
75°	508.2	482.1	410.5	355.1	355.1
77.5°	407.2	394.2	329.0	289.9	293.2
80°	319.2	303.0	247.6	221.5	221.5
82.5°	234.5	215.0	166.1	146.6	153.1
85°	146.6	120.5	88.0	74.9	74.9
87.5°	45.6	35.8	26.1	29.3	29.3
90°	6.5	22.8	35.8	45.6	48.9
92.5°	16.3	42.3	52.1	61.9	65.2
95°	26.1	55.4	74.9	78.2	78.2
97.5°	35.8	61.9	91.2	104.2	104.2
100°	48.9	65.2	97.7	117.3	120.5
102.5°	61.9	71.7	104.2	123.8	130.3
105°	74.9	78.2	110.8	130.3	136.8



TEST NUMBER: P520536

CATALOG NUMBER: 4WSLA-175-L835-UPL8-UNV-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	110.8	97.7	123.8	146.6	153.1
115°	123.8	104.2	130.3	149.9	159.6
117.5°	133.6	114.0	136.8	156.4	162.9
120°	143.3	120.5	140.1	162.9	169.4
122.5°	156.4	127.0	146.6	166.1	175.9
125°	166.1	133.6	149.9	172.7	179.2
127.5°	175.9	146.6	153.1	175.9	182.4
130°	182.4	159.6	156.4	179.2	185.7
132.5°	192.2	169.4	159.6	182.4	188.9
135°	198.7	179.2	166.1	182.4	192.2
137.5°	205.2	188.9	166.1	182.4	188.9
140°	211.7	198.7	169.4	182.4	188.9
142.5°	215.0	205.2	172.7	182.4	188.9
145°	221.5	211.7	185.7	182.4	188.9
147.5°	224.8	218.3	195.5	182.4	188.9
150°	228.0	224.8	205.2	185.7	185.7
152.5°	231.3	228.0	211.7	198.7	192.2
155°	234.5	231.3	218.3	208.5	205.2
157.5°	237.8	237.8	224.8	218.3	215.0
160°	237.8	241.1	231.3	224.8	221.5
162.5°	241.1	244.3	234.5	231.3	228.0
165°	241.1	244.3	237.8	237.8	237.8
167.5°	244.3	247.6	244.3	241.1	241.1
170°	244.3	247.6	244.3	244.3	244.3
172.5°	244.3	247.6	247.6	247.6	247.6
175°	244.3	247.6	247.6	250.8	250.8
177.5°	244.3	247.6	247.6	247.6	247.6
180°	247.6	247.6	247.6	247.6	247.6



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	88.0	84.7	114.0	136.8	143.3
110°	97.7	91.2	120.5	140.1	146.6



(END OF REPORT)