

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: P520542

Luminaire Tested: **4WSLA-175-L850-UPL8-UNV-U**

Issue Date: 5/3/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P520542  
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-L850-UPL8-UNV-U  
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI  
LEDS WITH 8% UPLIGHT  
Light Source: -  
Ballast/Driver: -

**Summary**

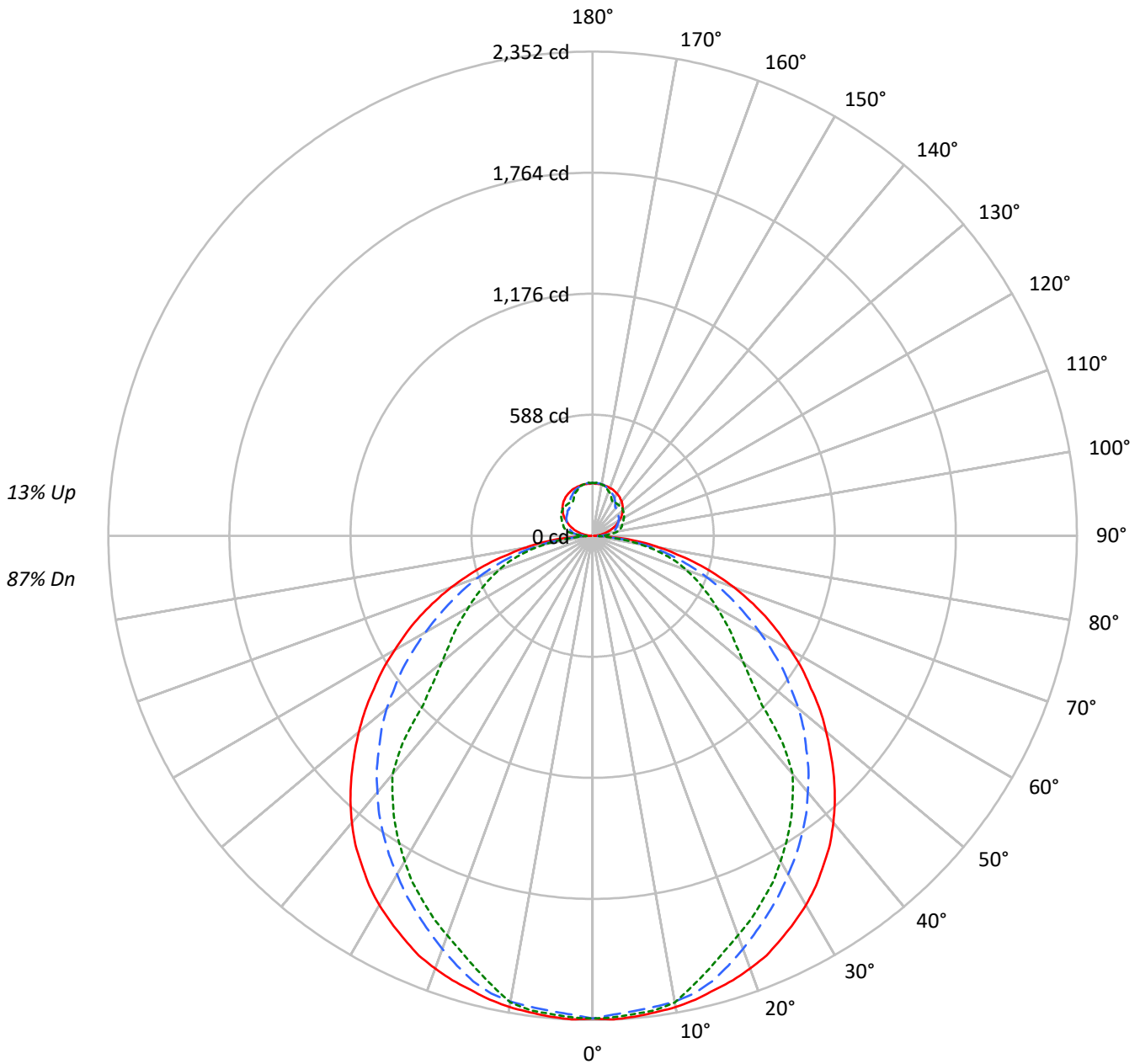
Lumens per Lamp: N/A  
Luminaire Lumens: 7298.0 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33  
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')  
CIE Type: Semi-Direct

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					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	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°	12621	12621	12621
5°	12669	12523	12596
10°	12705	12557	12576
15°	12728	12483	12145
20°	12812	12232	11827
25°	12843	12002	11601
30°	12875	11805	11344
35°	12835	11638	11040
40°	12778	11426	10620
45°	12610	11171	8860
50°	12402	10933	7995
55°	12158	10575	7693
60°	11949	10097	7482
65°	11773	9668	7477
70°	11468	9292	7593
75°	10946	8840	7648
80°	10250	7947	7110
85°	9374	5626	4792



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	222.0	3.0
10°-20°	631.2	8.6
20°-30°	943.1	12.9
30°-40°	1125.7	15.4
40°-50°	1125.9	15.4
50°-60°	974.4	13.4
60°-70°	747.9	10.2
70°-80°	458.3	6.3
80°-90°	129.0	1.8
90°-100°	72.9	1.0
100°-110°	115.7	1.6
110°-120°	135.3	1.9
120°-130°	146.1	2.0
130°-140°	144.0	2.0
140°-150°	127.3	1.7
150°-160°	104.8	1.4
160°-170°	70.1	1.0
170°-180°	24.4	0.3
0°-30°	1796.2	24.6
0°-40°	2922.0	40.0
0°-60°	5022.2	68.8
0°-90°	6357.3	87.1
90°-120°	324.0	4.4
90°-150°	741.3	10.2
90°-180°	941.0	12.9
0°-180°	7298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2345	2345	2345	2345	2345	
5°	2345	2338	2318	2335	2332	223
15°	2284	2281	2240	2200	2180	646
25°	2163	2136	2021	1967	1954	998
35°	1954	1903	1771	1707	1680	1223
45°	1657	1610	1468	1336	1164	1277
55°	1296	1265	1127	901	820	1162
65°	924	891	759	611	587	913
75°	526	499	425	368	368	555
85°	152	125	91	78	78	159
90°	7	24	37	47	51	11
95°	27	57	78	81	81	27
105°	78	81	115	135	142	81
115°	128	108	135	155	165	125
125°	172	138	155	179	186	153
135°	206	186	172	189	199	159
145°	229	219	192	189	196	143
155°	243	240	226	216	213	112
165°	250	253	246	246	246	71
175°	253	256	256	260	260	24
180°	256	256	256	256	256	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2345.0	2345.0	2345.0	2345.0	2345.0
2.5°	2351.8	2345.0	2328.1	2345.0	2341.6
5°	2345.0	2338.3	2318.0	2334.9	2331.5
7.5°	2334.9	2328.1	2307.9	2328.1	2324.8
10°	2324.8	2318.0	2297.8	2311.3	2301.2
12.5°	2307.9	2301.2	2277.5	2260.7	2240.4
15°	2284.3	2280.9	2240.4	2199.9	2179.7
17.5°	2264.0	2253.9	2189.8	2142.6	2119.0
20°	2237.0	2220.2	2135.8	2081.8	2065.0
22.5°	2206.7	2179.7	2078.5	2027.9	2014.4
25°	2162.8	2135.8	2021.1	1967.1	1953.6
27.5°	2119.0	2085.2	1963.7	1909.8	1896.3
30°	2071.7	2024.5	1899.6	1849.0	1825.4
32.5°	2017.7	1970.5	1838.9	1781.5	1754.5
35°	1953.6	1903.0	1771.4	1707.3	1680.3
37.5°	1892.9	1838.9	1703.9	1633.1	1596.0
40°	1818.7	1764.7	1626.3	1548.7	1511.6
42.5°	1741.1	1690.4	1552.1	1457.6	1366.5
45°	1656.7	1609.5	1467.7	1336.2	1164.1
47.5°	1569.0	1528.5	1390.1	1211.3	1046.0
50°	1481.2	1440.8	1305.8	1093.2	954.9
52.5°	1393.5	1359.8	1211.3	995.4	880.6
55°	1295.7	1265.3	1127.0	900.9	819.9
57.5°	1207.9	1177.6	1029.1	823.3	755.8
60°	1110.1	1083.1	938.0	745.7	695.1
62.5°	1019.0	988.6	846.9	678.2	641.1
65°	924.5	890.8	759.2	610.7	587.1
67.5°	826.7	792.9	674.8	550.0	536.5
70°	728.8	701.8	590.5	489.2	482.5
72.5°	627.6	597.2	506.1	431.9	431.9
75°	526.4	499.4	425.1	367.8	367.8
77.5°	421.8	408.3	340.8	300.3	303.7
80°	330.7	313.8	256.4	229.4	229.4
82.5°	242.9	222.7	172.1	151.8	158.6
85°	151.8	124.8	91.1	77.6	77.6
87.5°	47.2	37.1	27.0	30.4	30.4
90°	6.7	23.6	37.1	47.2	50.6
92.5°	16.9	43.9	54.0	64.1	67.5
95°	27.0	57.4	77.6	81.0	81.0
97.5°	37.1	64.1	94.5	108.0	108.0
100°	50.6	67.5	101.2	121.5	124.8
102.5°	64.1	74.2	108.0	128.2	135.0
105°	77.6	81.0	114.7	135.0	141.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	101.2	128.2	151.8	158.6
115°	128.2	108.0	135.0	155.2	165.3
117.5°	138.3	118.1	141.7	162.0	168.7
120°	148.5	124.8	145.1	168.7	175.5
122.5°	162.0	131.6	151.8	172.1	182.2
125°	172.1	138.3	155.2	178.8	185.6
127.5°	182.2	151.8	158.6	182.2	189.0
130°	189.0	165.3	162.0	185.6	192.3
132.5°	199.1	175.5	165.3	189.0	195.7
135°	205.8	185.6	172.1	189.0	199.1
137.5°	212.6	195.7	172.1	189.0	195.7
140°	219.3	205.8	175.5	189.0	195.7
142.5°	222.7	212.6	178.8	189.0	195.7
145°	229.4	219.3	192.3	189.0	195.7
147.5°	232.8	226.1	202.4	189.0	195.7
150°	236.2	232.8	212.6	192.3	192.3
152.5°	239.6	236.2	219.3	205.8	199.1
155°	242.9	239.6	226.1	215.9	212.6
157.5°	246.3	246.3	232.8	226.1	222.7
160°	246.3	249.7	239.6	232.8	229.4
162.5°	249.7	253.1	242.9	239.6	236.2
165°	249.7	253.1	246.3	246.3	246.3
167.5°	253.1	256.4	253.1	249.7	249.7
170°	253.1	256.4	253.1	253.1	253.1
172.5°	253.1	256.4	256.4	256.4	256.4
175°	253.1	256.4	256.4	259.8	259.8
177.5°	253.1	256.4	256.4	256.4	256.4
180°	256.4	256.4	256.4	256.4	256.4



Report Generated By 670246072 / DESKTOP-MV3F9LC







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







107.5°	91.1	87.7	118.1	141.7	148.5
110°	101.2	94.5	124.8	145.1	151.8



(END OF REPORT)