

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: P520541

Luminaire Tested: **4WSLA-175-L850-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520541
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2103-174-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-175-L850-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

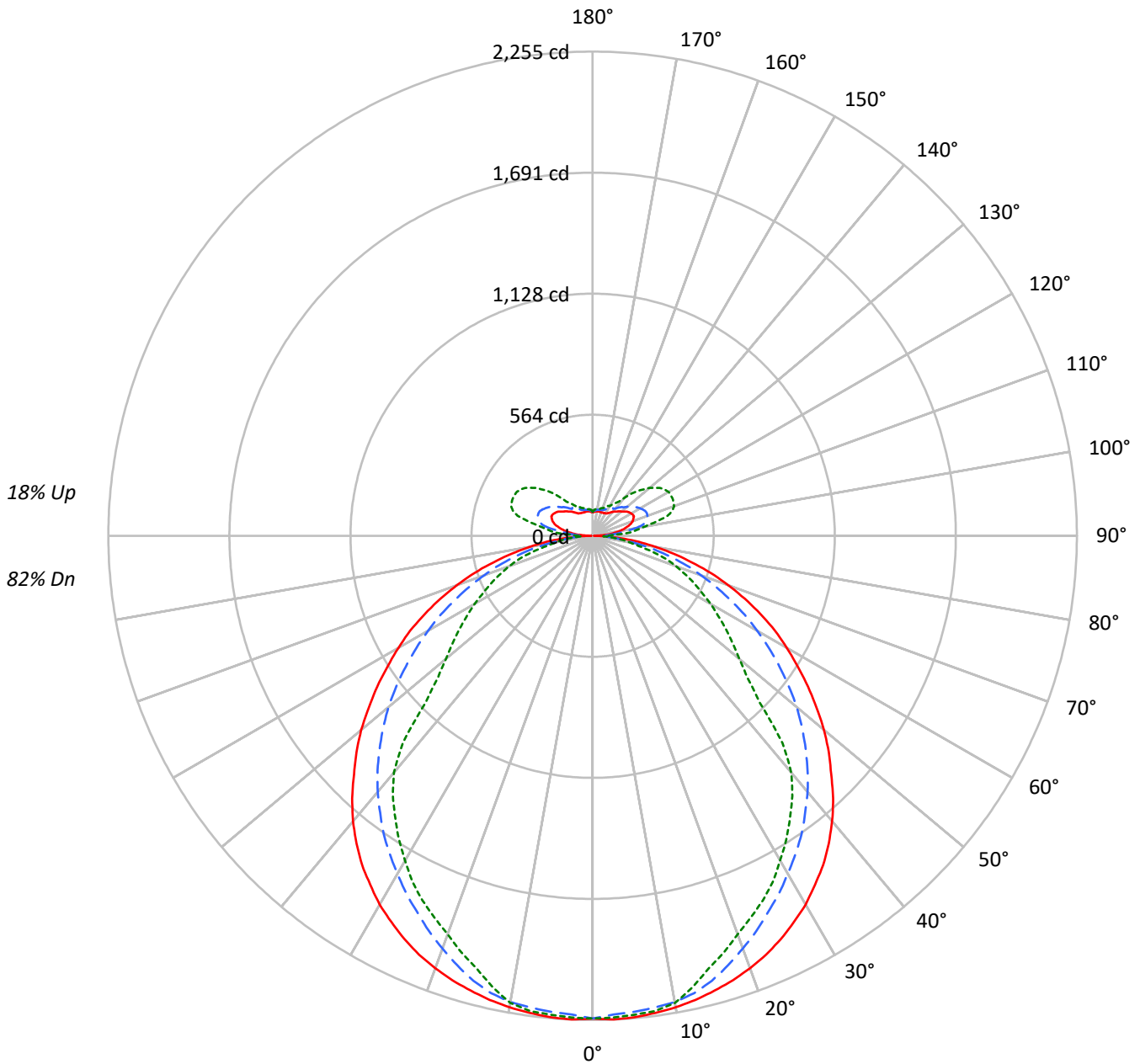
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7281.0 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.16 / 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_{in}): 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: P520541
CATALOG NUMBER: 4WSLA-175-L850-UPL15-UNV-U

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	115	115	115	115	110	110	110	110	101	101	101	93	93	93	86	86	86	82																			
1	105	100	96	92	100	96	93	89	89	86	83	82	80	78	76	74	72	69																			
2	96	88	81	76	91	84	78	73	78	73	69	72	68	65	67	64	61	58																			
3	87	77	69	63	83	74	67	61	69	63	58	64	59	55	59	55	52	49																			
4	80	68	60	53	76	66	58	52	61	55	50	57	51	47	53	48	45	42																			
5	73	61	52	46	70	59	51	45	55	48	43	51	45	41	48	43	39	36																			
6	68	55	46	40	65	53	45	39	50	43	38	46	40	36	43	38	34	32																			
7	63	50	41	35	60	48	40	35	45	38	33	42	36	32	39	34	30	28																			
8	58	45	37	32	56	44	36	31	41	35	30	39	33	29	36	31	27	25																			
9	55	42	34	28	52	40	33	28	38	31	27	36	30	26	33	28	25	23																			
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12100	12100	12100
5°	12158	12023	12097
10°	12186	12049	12074
15°	12221	11955	11624
20°	12275	11714	11309
25°	12308	11482	11130
30°	12328	11293	10854
35°	12299	11146	10531
40°	12191	10941	10108
45°	11957	10673	8382
50°	11779	10386	7464
55°	11489	9970	7103
60°	11241	9523	6823
65°	10976	9001	6621
70°	10548	8431	6494
75°	9956	7729	5974
80°	9115	6502	5300
85°	8163	5632	5348



TEST NUMBER: P520541

CATALOG NUMBER: 4WSLA-175-L850-UPL15-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.1	2.9
10°-20°	605.2	8.3
20°-30°	903.3	12.4
30°-40°	1076.3	14.8
40°-50°	1070.5	14.7
50°-60°	917.5	12.6
60°-70°	691.0	9.5
70°-80°	400.2	5.5
80°-90°	120.3	1.7
90°-100°	129.1	1.8
100°-110°	265.2	3.6
110°-120°	280.4	3.9
120°-130°	233.9	3.2
130°-140°	163.4	2.2
140°-150°	101.7	1.4
150°-160°	63.0	0.9
160°-170°	35.5	0.5
170°-180°	11.4	0.2
0°-30°	1721.6	23.6
0°-40°	2797.9	38.4
0°-60°	4785.9	65.7
0°-90°	5997.4	82.4
90°-120°	674.6	9.3
90°-150°	1173.6	16.1
90°-180°	1284.0	17.6
0°-180°	7281.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2250	2244	2225	2241	2239	214
15°	2193	2191	2146	2109	2086	620
25°	2073	2043	1934	1886	1874	956
35°	1872	1822	1696	1630	1603	1169
45°	1571	1532	1402	1263	1101	1214
55°	1224	1206	1062	844	757	1095
65°	862	841	707	550	520	852
75°	479	463	372	296	287	507
85°	132	116	91	87	87	141
90°	7	32	55	68	73	13
95°	73	98	112	164	178	70
105°	171	178	255	342	362	177
115°	212	180	271	374	410	206
125°	196	173	235	344	388	174
135°	160	173	189	255	294	125
145°	130	150	164	176	187	82
155°	119	125	134	146	148	55
165°	116	121	125	130	130	33
175°	114	116	119	121	123	11
180°	112	112	112	112	112	



TEST NUMBER: P520541

CATALOG NUMBER: 4WSLA-175-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2248.2	2248.2	2248.2	2248.2	2248.2
2.5°	2255.0	2250.5	2232.2	2250.5	2245.9
5°	2250.5	2243.6	2225.4	2241.3	2239.1
7.5°	2241.3	2236.8	2216.2	2234.5	2232.2
10°	2229.9	2223.1	2204.8	2218.5	2209.4
12.5°	2214.0	2209.4	2182.0	2170.6	2152.4
15°	2193.4	2191.2	2145.6	2109.1	2086.3
17.5°	2170.6	2161.5	2097.7	2054.4	2033.8
20°	2143.3	2129.6	2045.2	1995.1	1974.6
22.5°	2111.4	2090.8	1992.8	1944.9	1924.4
25°	2072.6	2043.0	1933.5	1885.6	1874.2
27.5°	2029.3	1995.1	1878.8	1830.9	1817.2
30°	1983.7	1940.4	1817.2	1771.6	1746.6
32.5°	1926.7	1885.6	1758.0	1705.5	1678.1
35°	1872.0	1821.8	1696.4	1630.3	1602.9
37.5°	1805.8	1755.7	1625.7	1559.6	1527.7
40°	1735.2	1685.0	1557.3	1479.8	1438.7
42.5°	1657.6	1612.0	1482.1	1388.6	1308.8
45°	1571.0	1532.2	1402.3	1263.2	1101.3
47.5°	1491.2	1454.7	1322.5	1142.3	975.9
50°	1406.8	1372.6	1240.4	1028.3	891.5
52.5°	1313.3	1288.3	1151.4	930.3	820.8
55°	1224.4	1206.2	1062.5	843.6	757.0
57.5°	1130.9	1112.7	973.6	761.6	693.1
60°	1044.3	1026.0	884.7	688.6	633.9
62.5°	957.6	932.6	798.0	617.9	572.3
65°	861.9	841.4	706.8	549.5	519.9
67.5°	766.1	747.9	622.5	485.7	465.1
70°	670.3	654.4	535.8	424.1	412.7
72.5°	576.9	556.3	458.3	362.5	358.0
75°	478.8	462.9	371.7	296.4	287.3
77.5°	385.3	371.7	291.9	225.7	218.9
80°	294.1	280.5	209.8	164.2	171.0
82.5°	216.6	198.4	141.4	127.7	134.5
85°	132.2	116.3	91.2	86.6	86.6
87.5°	45.6	43.3	41.0	47.9	50.2
90°	6.8	31.9	54.7	68.4	73.0
92.5°	38.8	57.0	75.2	88.9	93.5
95°	73.0	98.0	111.7	164.2	177.8
97.5°	100.3	130.0	145.9	193.8	207.5
100°	127.7	155.0	205.2	230.3	246.2
102.5°	150.5	171.0	241.7	291.9	301.0
105°	171.0	177.8	255.4	342.0	362.5



TEST NUMBER: P520541

CATALOG NUMBER: 4WSLA-175-L850-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	205.2	182.4	273.6	371.7	408.1
115°	212.0	180.1	271.3	373.9	410.4
117.5°	212.0	180.1	264.5	373.9	410.4
120°	207.5	182.4	255.4	369.4	408.1
122.5°	202.9	177.8	246.2	360.3	399.0
125°	196.1	173.3	234.8	344.3	387.6
127.5°	184.7	177.8	223.4	323.8	367.1
130°	175.6	180.1	209.8	303.3	346.6
132.5°	168.7	175.6	196.1	280.5	319.2
135°	159.6	173.3	189.2	255.4	294.1
137.5°	152.8	166.4	177.8	232.6	264.5
140°	145.9	161.9	166.4	202.9	230.3
142.5°	136.8	155.0	157.3	189.2	200.6
145°	130.0	150.5	164.2	175.6	187.0
147.5°	123.1	141.4	159.6	161.9	173.3
150°	120.8	132.2	152.8	155.0	159.6
152.5°	118.6	127.7	141.4	155.0	157.3
155°	118.6	125.4	134.5	145.9	148.2
157.5°	116.3	125.4	130.0	139.1	141.4
160°	116.3	123.1	127.7	134.5	136.8
162.5°	116.3	123.1	125.4	132.2	134.5
165°	116.3	120.8	125.4	130.0	130.0
167.5°	116.3	120.8	123.1	127.7	127.7
170°	116.3	118.6	123.1	125.4	125.4
172.5°	114.0	118.6	120.8	125.4	125.4
175°	114.0	116.3	118.6	120.8	123.1
177.5°	109.4	116.3	118.6	120.8	118.6
180°	111.7	111.7	111.7	111.7	111.7



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	187.0	180.1	264.5	360.3	389.9
110°	198.4	182.4	271.3	367.1	403.6



(END OF REPORT)