

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: P520535

Luminaire Tested: **4WSLA-175-L835-UPL15-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520535
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-L835-UPL15-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3500K, 80 CRI
LEDS WITH 15% UPLIGHT
Light Source: -
Ballast/Driver: -

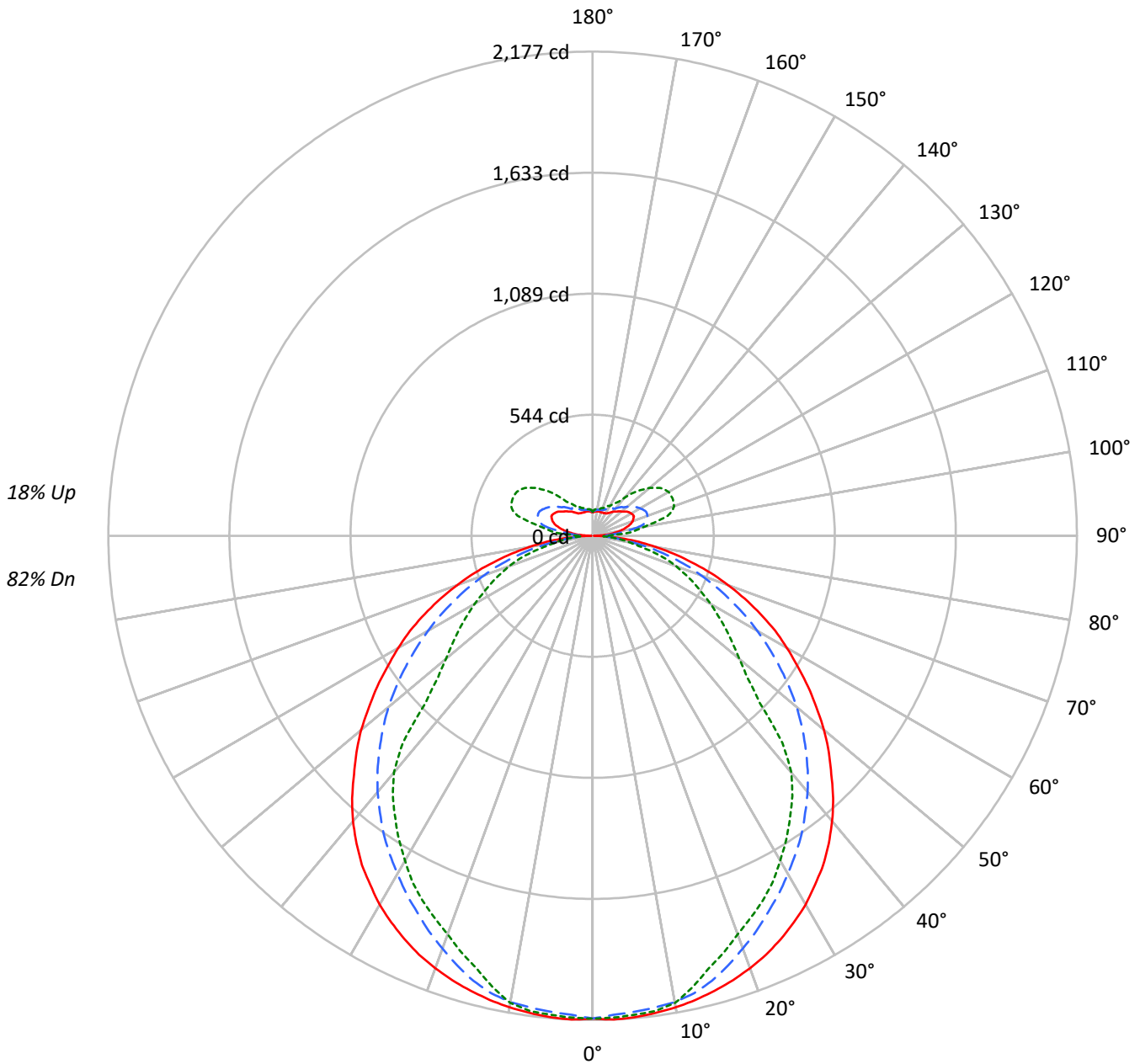
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7030.0 lumens
Efficiency: N/A
Efficacy: 118.2 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: P520535
CATALOG NUMBER: 4WSLA-175-L835-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°	11683	11683	11683
5°	11739	11608	11680
10°	11767	11634	11658
15°	11800	11543	11224
20°	11852	11310	10919
25°	11884	11086	10746
30°	11903	10904	10480
35°	11875	10761	10168
40°	11770	10564	9759
45°	11545	10305	8093
50°	11373	10027	7207
55°	11093	9626	6858
60°	10853	9195	6588
65°	10598	8691	6392
70°	10184	8142	6271
75°	9613	7461	5768
80°	8802	6276	5117
85°	7886	5440	5169



TEST NUMBER: P520535

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.7	2.9
10°-20°	584.4	8.3
20°-30°	872.1	12.4
30°-40°	1039.2	14.8
40°-50°	1033.6	14.7
50°-60°	885.9	12.6
60°-70°	667.2	9.5
70°-80°	386.4	5.5
80°-90°	116.1	1.7
90°-100°	124.7	1.8
100°-110°	256.0	3.6
110°-120°	270.7	3.9
120°-130°	225.8	3.2
130°-140°	157.8	2.2
140°-150°	98.2	1.4
150°-160°	60.9	0.9
160°-170°	34.3	0.5
170°-180°	11.1	0.2
0°-30°	1662.3	23.6
0°-40°	2701.4	38.4
0°-60°	4620.9	65.7
0°-90°	5790.6	82.4
90°-120°	651.4	9.3
90°-150°	1133.2	16.1
90°-180°	1239.0	17.6
0°-180°	7030.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2171	2171	2171	2171	2171	
5°	2173	2166	2149	2164	2162	207
15°	2118	2116	2072	2036	2014	598
25°	2001	1972	1867	1821	1810	923
35°	1807	1759	1638	1574	1548	1129
45°	1517	1479	1354	1220	1063	1173
55°	1182	1165	1026	815	731	1057
65°	832	812	682	531	502	823
75°	462	447	359	286	277	490
85°	128	112	88	84	84	136
90°	7	31	53	66	70	13
95°	70	95	108	158	172	67
105°	165	172	247	330	350	171
115°	205	174	262	361	396	199
125°	189	167	227	332	374	168
135°	154	167	183	247	284	120
145°	126	145	158	170	180	80
155°	114	121	130	141	143	53
165°	112	117	121	126	126	32
175°	110	112	114	117	119	10
180°	108	108	108	108	108	



TEST NUMBER: P520535

CATALOG NUMBER: 4WSLA-175-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2170.7	2170.7	2170.7	2170.7	2170.7
2.5°	2177.3	2172.9	2155.3	2172.9	2168.5
5°	2172.9	2166.3	2148.7	2164.1	2161.9
7.5°	2164.1	2159.7	2139.8	2157.5	2155.3
10°	2153.1	2146.5	2128.8	2142.0	2133.2
12.5°	2137.6	2133.2	2106.8	2095.8	2078.2
15°	2117.8	2115.6	2071.6	2036.4	2014.4
17.5°	2095.8	2087.0	2025.4	1983.5	1963.7
20°	2069.4	2056.2	1974.7	1926.3	1906.5
22.5°	2038.6	2018.8	1924.1	1877.9	1858.1
25°	2001.2	1972.5	1866.9	1820.6	1809.6
27.5°	1959.3	1926.3	1814.0	1767.8	1754.6
30°	1915.3	1873.5	1754.6	1710.6	1686.3
32.5°	1860.3	1820.6	1697.3	1646.7	1620.3
35°	1807.4	1759.0	1637.9	1574.1	1547.6
37.5°	1743.6	1695.1	1569.7	1505.8	1475.0
40°	1675.3	1626.9	1503.6	1428.8	1389.1
42.5°	1600.5	1556.5	1431.0	1340.7	1263.7
45°	1516.8	1479.4	1353.9	1219.6	1063.3
47.5°	1439.8	1404.6	1276.9	1102.9	942.2
50°	1358.3	1325.3	1197.6	992.9	860.8
52.5°	1268.1	1243.8	1111.8	898.2	792.5
55°	1182.2	1164.6	1025.9	814.6	730.9
57.5°	1091.9	1074.3	940.0	735.3	669.3
60°	1008.3	990.7	854.2	664.8	612.0
62.5°	924.6	900.4	770.5	596.6	552.6
65°	832.2	812.3	682.5	530.6	501.9
67.5°	739.7	722.1	601.0	468.9	449.1
70°	647.2	631.8	517.4	409.5	398.5
72.5°	557.0	537.2	442.5	350.0	345.6
75°	462.3	446.9	358.8	286.2	277.4
77.5°	372.1	358.8	281.8	217.9	211.3
80°	284.0	270.8	202.5	158.5	165.1
82.5°	209.1	191.5	136.5	123.3	129.9
85°	127.7	112.3	88.1	83.7	83.7
87.5°	44.0	41.8	39.6	46.2	48.4
90°	6.6	30.8	52.8	66.0	70.4
92.5°	37.4	55.0	72.6	85.9	90.3
95°	70.4	94.7	107.9	158.5	171.7
97.5°	96.9	125.5	140.9	187.1	200.3
100°	123.3	149.7	198.1	222.4	237.8
102.5°	145.3	165.1	233.4	281.8	290.6
105°	165.1	171.7	246.6	330.2	350.0



TEST NUMBER: P520535

CATALOG NUMBER: 4WSLA-175-L835-UPL15-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	198.1	176.1	264.2	358.8	394.1
115°	204.7	173.9	262.0	361.0	396.3
117.5°	204.7	173.9	255.4	361.0	396.3
120°	200.3	176.1	246.6	356.6	394.1
122.5°	195.9	171.7	237.8	347.8	385.3
125°	189.3	167.3	226.8	332.4	374.3
127.5°	178.3	171.7	215.7	312.6	354.4
130°	169.5	173.9	202.5	292.8	334.6
132.5°	162.9	169.5	189.3	270.8	308.2
135°	154.1	167.3	182.7	246.6	284.0
137.5°	147.5	160.7	171.7	224.6	255.4
140°	140.9	156.3	160.7	195.9	222.4
142.5°	132.1	149.7	151.9	182.7	193.7
145°	125.5	145.3	158.5	169.5	180.5
147.5°	118.9	136.5	154.1	156.3	167.3
150°	116.7	127.7	147.5	149.7	154.1
152.5°	114.5	123.3	136.5	149.7	151.9
155°	114.5	121.1	129.9	140.9	143.1
157.5°	112.3	121.1	125.5	134.3	136.5
160°	112.3	118.9	123.3	129.9	132.1
162.5°	112.3	118.9	121.1	127.7	129.9
165°	112.3	116.7	121.1	125.5	125.5
167.5°	112.3	116.7	118.9	123.3	123.3
170°	112.3	114.5	118.9	121.1	121.1
172.5°	110.1	114.5	116.7	121.1	121.1
175°	110.1	112.3	114.5	116.7	118.9
177.5°	105.7	112.3	114.5	116.7	114.5
180°	107.9	107.9	107.9	107.9	107.9



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	180.5	173.9	255.4	347.8	376.5
110°	191.5	176.1	262.0	354.4	389.7



(END OF REPORT)