

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: P520554

Luminaire Tested: **4WSLA-175-L950-UPL8-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520554
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-L950-UPL8-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 5000K, 90 CRI
LEDS WITH 8% UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

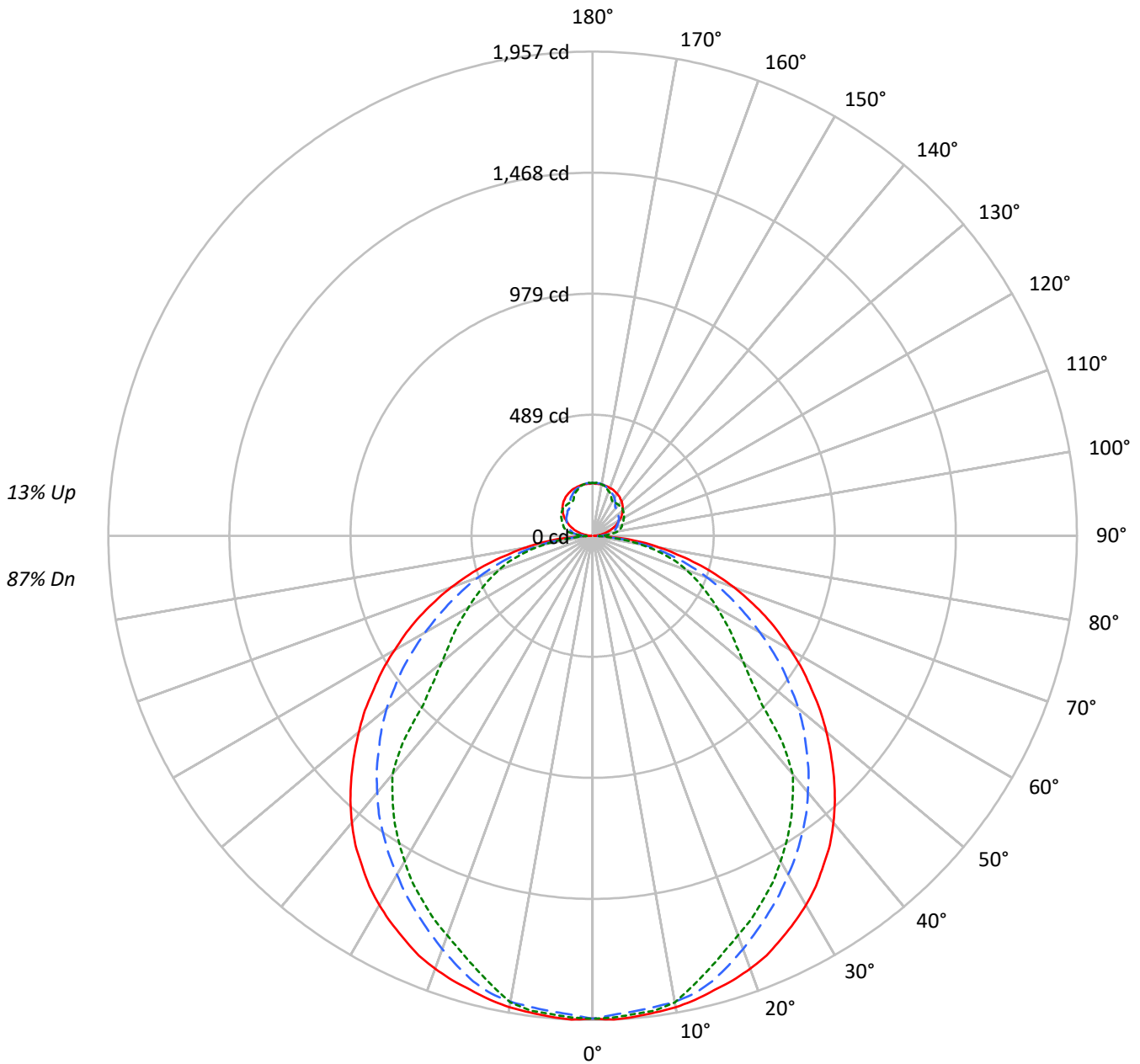
Lumens per Lamp: N/A
Luminaire Lumens: 6074.0 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 59.5
Input Voltage (V): NR
Input Current (A_{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: P520554

CATALOG NUMBER: 4WSLA-175-L950-UPL8-UNV-U

Luminous Intensity Polar Plot





TEST NUMBER: P520554

CATALOG NUMBER: 4WSLA-175-L950-UPL8-UNV-U

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°	10504	10504	10504
5°	10544	10423	10484
10°	10574	10451	10467
15°	10593	10390	10108
20°	10664	10181	9843
25°	10690	9989	9656
30°	10716	9825	9442
35°	10683	9686	9188
40°	10634	9510	8839
45°	10494	9298	7374
50°	10322	9100	6654
55°	10119	8800	6403
60°	9945	8403	6227
65°	9799	8047	6222
70°	9545	7733	6319
75°	9110	7357	6365
80°	8529	6614	5920
85°	7805	4681	3989



TEST NUMBER: P520554

CATALOG NUMBER: 4WSLA-175-L950-UPL8-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.8	3.0
10°-20°	525.3	8.6
20°-30°	784.9	12.9
30°-40°	936.9	15.4
40°-50°	937.0	15.4
50°-60°	810.9	13.4
60°-70°	622.4	10.2
70°-80°	381.4	6.3
80°-90°	107.4	1.8
90°-100°	60.7	1.0
100°-110°	96.3	1.6
110°-120°	112.6	1.9
120°-130°	121.6	2.0
130°-140°	119.8	2.0
140°-150°	106.0	1.7
150°-160°	87.2	1.4
160°-170°	58.4	1.0
170°-180°	20.3	0.3
0°-30°	1495.0	24.6
0°-40°	2431.9	40.0
0°-60°	4179.9	68.8
0°-90°	5291.1	87.1
90°-120°	269.6	4.4
90°-150°	617.0	10.2
90°-180°	783.0	12.9
0°-180°	6074.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1952	1952	1952	1952	1952	
5°	1952	1946	1929	1943	1940	186
15°	1901	1898	1865	1831	1814	538
25°	1800	1778	1682	1637	1626	830
35°	1626	1584	1474	1421	1398	1018
45°	1379	1340	1222	1112	969	1063
55°	1078	1053	938	750	682	967
65°	770	741	632	508	489	760
75°	438	416	354	306	306	462
85°	126	104	76	65	65	132
90°	6	20	31	39	42	9
95°	22	48	65	67	67	22
105°	65	67	96	112	118	68
115°	107	90	112	129	138	104
125°	143	115	129	149	154	128
135°	171	154	143	157	166	132
145°	191	182	160	157	163	119
155°	202	199	188	180	177	93
165°	208	211	205	205	205	59
175°	211	213	213	216	216	20
180°	213	213	213	213	213	



TEST NUMBER: P520554

CATALOG NUMBER: 4WSLA-175-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1951.7	1951.7	1951.7	1951.7	1951.7
2.5°	1957.3	1951.7	1937.7	1951.7	1948.9
5°	1951.7	1946.1	1929.3	1943.3	1940.5
7.5°	1943.3	1937.7	1920.8	1937.7	1934.9
10°	1934.9	1929.3	1912.4	1923.6	1915.2
12.5°	1920.8	1915.2	1895.6	1881.5	1864.7
15°	1901.2	1898.4	1864.7	1831.0	1814.1
17.5°	1884.3	1875.9	1822.5	1783.2	1763.6
20°	1861.9	1847.8	1777.6	1732.7	1718.6
22.5°	1836.6	1814.1	1729.9	1687.7	1676.5
25°	1800.1	1777.6	1682.1	1637.2	1626.0
27.5°	1763.6	1735.5	1634.4	1589.5	1578.2
30°	1724.3	1684.9	1581.0	1538.9	1519.3
32.5°	1679.3	1640.0	1530.5	1482.7	1460.3
35°	1626.0	1583.8	1474.3	1421.0	1398.5
37.5°	1575.4	1530.5	1418.2	1359.2	1328.3
40°	1513.6	1468.7	1353.6	1289.0	1258.1
42.5°	1449.0	1406.9	1291.8	1213.2	1137.3
45°	1378.8	1339.5	1221.6	1112.1	968.8
47.5°	1305.8	1272.1	1157.0	1008.2	870.6
50°	1232.8	1199.1	1086.8	909.9	794.7
52.5°	1159.8	1131.7	1008.2	828.4	732.9
55°	1078.4	1053.1	937.9	749.8	682.4
57.5°	1005.3	980.1	856.5	685.2	629.0
60°	923.9	901.4	780.7	620.6	578.5
62.5°	848.1	822.8	704.9	564.5	533.6
65°	769.5	741.4	631.9	508.3	488.6
67.5°	688.0	659.9	561.6	457.7	446.5
70°	606.6	584.1	491.4	407.2	401.6
72.5°	522.3	497.1	421.2	359.5	359.5
75°	438.1	415.6	353.8	306.1	306.1
77.5°	351.0	339.8	283.6	249.9	252.7
80°	275.2	261.2	213.4	191.0	191.0
82.5°	202.2	185.3	143.2	126.4	132.0
85°	126.4	103.9	75.8	64.6	64.6
87.5°	39.3	30.9	22.5	25.3	25.3
90°	5.6	19.7	30.9	39.3	42.1
92.5°	14.0	36.5	44.9	53.4	56.2
95°	22.5	47.7	64.6	67.4	67.4
97.5°	30.9	53.4	78.6	89.9	89.9
100°	42.1	56.2	84.2	101.1	103.9
102.5°	53.4	61.8	89.9	106.7	112.3
105°	64.6	67.4	95.5	112.3	117.9



TEST NUMBER: P520554

CATALOG NUMBER: 4WSLA-175-L950-UPL8-UNV-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.5	84.2	106.7	126.4	132.0
115°	106.7	89.9	112.3	129.2	137.6
117.5°	115.1	98.3	117.9	134.8	140.4
120°	123.6	103.9	120.8	140.4	146.0
122.5°	134.8	109.5	126.4	143.2	151.6
125°	143.2	115.1	129.2	148.8	154.5
127.5°	151.6	126.4	132.0	151.6	157.3
130°	157.3	137.6	134.8	154.5	160.1
132.5°	165.7	146.0	137.6	157.3	162.9
135°	171.3	154.5	143.2	157.3	165.7
137.5°	176.9	162.9	143.2	157.3	162.9
140°	182.5	171.3	146.0	157.3	162.9
142.5°	185.3	176.9	148.8	157.3	162.9
145°	191.0	182.5	160.1	157.3	162.9
147.5°	193.8	188.2	168.5	157.3	162.9
150°	196.6	193.8	176.9	160.1	160.1
152.5°	199.4	196.6	182.5	171.3	165.7
155°	202.2	199.4	188.2	179.7	176.9
157.5°	205.0	205.0	193.8	188.2	185.3
160°	205.0	207.8	199.4	193.8	191.0
162.5°	207.8	210.6	202.2	199.4	196.6
165°	207.8	210.6	205.0	205.0	205.0
167.5°	210.6	213.4	210.6	207.8	207.8
170°	210.6	213.4	210.6	210.6	210.6
172.5°	210.6	213.4	213.4	213.4	213.4
175°	210.6	213.4	213.4	216.2	216.2
177.5°	210.6	213.4	213.4	213.4	213.4
180°	213.4	213.4	213.4	213.4	213.4



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







107.5°	75.8	73.0	98.3	117.9	123.6
110°	84.2	78.6	103.9	120.8	126.4



(END OF REPORT)