

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: P520543

Luminaire Tested: **4WSLA-175-L930-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520543
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2002-689-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 4WSLA-175-L930-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 3000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

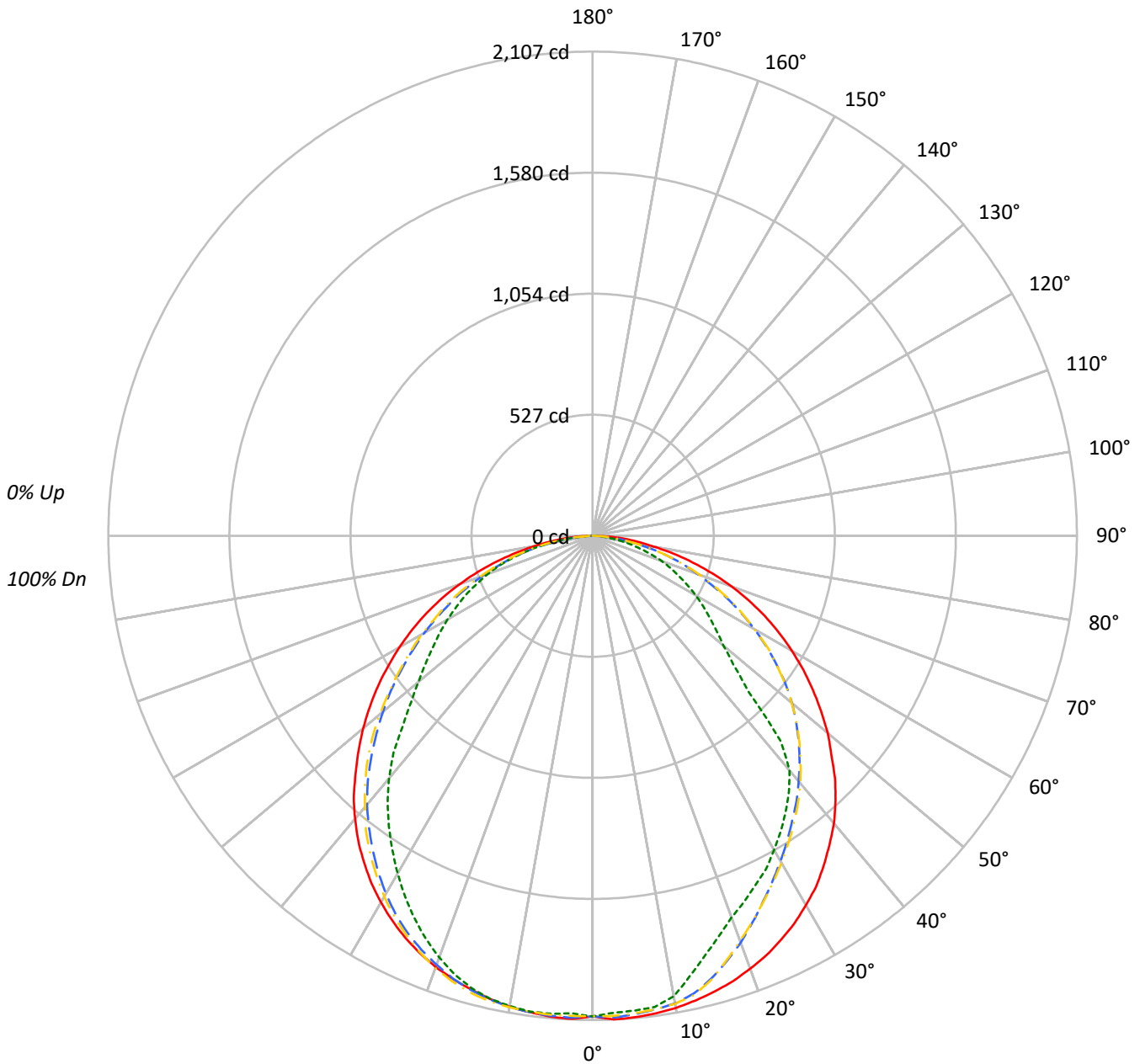
Lumens per Lamp: N/A
Luminaire Lumens: 5610.0 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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: P520543

CATALOG NUMBER: 4WSLA-175-L930-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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84																			
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70																			
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60																			
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39																			
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34																			
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31																			
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28																			
10	54	40	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11255	11255	11255	11255
5°	11365	11207	11346	11280
10°	11404	11122	11373	11355
15°	11439	10533	11389	11352
20°	11482	10120	11438	11180
25°	11519	9953	11459	10899
30°	11532	9810	11448	10542
35°	11514	9619	11396	10150
40°	11476	9364	11295	9679
45°	11348	7276	11092	8881
50°	11179	6228	10906	8285
55°	10979	5832	10696	7969
60°	10771	5567	10445	7837
65°	10515	5272	10159	7744
70°	10098	5013	9674	7627
75°	9401	4408	8958	7255
80°	8347	3685	7823	6155
85°	7898	2631	6928	3532



TEST NUMBER: P520543

CATALOG NUMBER: 4WSLA-175-L930-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.7	3.5
10°-20°	566.7	10.1
20°-30°	846.9	15.1
30°-40°	1008.1	18.0
40°-50°	1007.6	18.0
50°-60°	867.0	15.5
60°-70°	652.6	11.6
70°-80°	371.9	6.6
80°-90°	90.5	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1612.3	28.7
0°-40°	2620.4	46.7
0°-60°	4495.0	80.1
0°-90°	5610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5610.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2091	2091	2091	2091	2091	
5°	2104	2074	2100	2088	2104	200
15°	2053	1890	2044	2037	2053	580
25°	1940	1676	1930	1835	1940	894
35°	1752	1464	1734	1545	1752	1096
45°	1491	956	1457	1167	1491	1148
55°	1170	622	1140	849	1170	1046
65°	826	414	798	608	826	815
75°	452	212	431	349	452	479
85°	128	43	112	57	128	139
90°	0	0	0	0	0	



TEST NUMBER: P520543

CATALOG NUMBER: 4WSLA-175-L930-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2
2.5°	2106.9	2087.9	2099.1	2095.7	2077.8	2084.5	2091.2	2084.5	2104.7	2086.7	2099.1
5°	2103.6	2083.4	2090.1	2083.4	2074.4	2076.6	2086.7	2080.0	2100.2	2081.1	2096.8
7.5°	2096.8	2072.2	2078.9	2075.5	2067.7	2068.8	2078.9	2073.3	2091.2	2073.3	2091.2
10°	2086.7	2060.9	2066.5	2052.0	2035.1	2047.5	2067.7	2062.1	2081.1	2060.9	2081.1
12.5°	2071.0	2045.2	2039.6	1991.4	1961.1	1984.6	2046.3	2046.3	2064.3	2045.2	2066.5
15°	2053.1	2025.0	1994.7	1921.8	1890.4	1914.0	1999.2	2028.4	2044.1	2025.0	2046.3
17.5°	2031.8	1999.2	1940.9	1855.6	1826.5	1850.0	1937.5	2001.5	2021.7	2001.5	2020.5
20°	2004.8	1966.7	1883.7	1786.1	1767.0	1788.3	1875.8	1968.9	1997.0	1972.3	1985.8
22.5°	1975.7	1929.7	1819.7	1732.2	1723.2	1736.7	1816.4	1928.5	1965.6	1939.8	1948.7
25°	1939.8	1885.9	1755.8	1682.9	1676.1	1684.0	1758.0	1881.4	1929.7	1902.7	1906.1
27.5°	1901.6	1843.3	1695.2	1641.3	1634.6	1638.0	1699.7	1828.7	1888.2	1861.2	1855.6
30°	1855.6	1792.8	1634.6	1585.2	1578.5	1590.9	1643.6	1774.8	1842.2	1815.2	1798.4
32.5°	1809.6	1737.8	1575.1	1537.0	1523.5	1534.8	1585.2	1718.8	1791.7	1763.6	1735.6
35°	1752.4	1679.5	1513.4	1475.3	1464.1	1476.4	1526.9	1660.4	1734.5	1706.4	1668.3
37.5°	1692.9	1617.8	1457.3	1422.6	1402.4	1417.0	1467.4	1599.8	1675.0	1645.8	1598.7
40°	1633.5	1552.7	1394.5	1358.6	1332.8	1354.1	1405.7	1535.9	1607.7	1580.8	1526.9
42.5°	1563.9	1487.6	1332.8	1282.3	1209.4	1277.8	1339.5	1471.9	1538.1	1512.3	1447.3
45°	1491.0	1418.1	1267.7	1145.5	955.9	1156.7	1272.2	1404.6	1457.3	1432.7	1362.0
47.5°	1408.0	1346.3	1201.6	1015.3	831.3	1026.5	1203.8	1340.7	1381.1	1354.1	1275.6
50°	1335.1	1274.5	1132.0	905.4	743.8	917.7	1130.9	1268.9	1302.5	1277.8	1190.3
52.5°	1252.0	1199.3	1056.8	807.8	678.7	820.1	1054.6	1194.8	1221.7	1192.6	1105.1
55°	1170.1	1123.0	977.2	721.4	621.5	732.6	974.9	1118.5	1139.9	1106.2	1015.3
57.5°	1087.1	1044.5	895.3	644.0	568.8	656.3	900.9	1040.0	1054.6	1012.0	928.9
60°	1000.7	964.8	812.3	575.5	517.2	585.6	810.0	961.5	970.4	924.4	844.8
62.5°	914.3	881.8	729.2	512.7	464.5	519.4	734.8	878.4	884.1	840.3	758.4
65°	825.7	795.4	648.5	446.5	414.0	457.7	654.1	792.1	797.7	748.3	674.3
67.5°	733.7	709.0	562.1	396.0	365.7	399.4	573.3	704.6	707.9	659.7	592.4
70°	641.7	620.4	485.8	341.1	318.6	342.2	493.6	608.1	614.8	563.2	509.3
72.5°	547.5	530.7	411.7	283.8	263.6	283.8	416.2	519.4	523.9	481.3	428.6
75°	452.1	439.8	336.6	227.7	212.0	226.6	338.8	430.8	430.8	390.4	348.9
77.5°	360.1	351.2	258.0	175.0	163.8	172.8	259.2	341.1	338.8	307.4	274.9
80°	269.3	262.5	185.1	126.8	118.9	123.4	185.1	252.4	252.4	230.0	190.7
82.5°	193.0	185.1	122.3	83.0	78.5	80.8	120.0	176.1	179.5	162.7	129.0
85°	127.9	109.9	66.2	46.0	42.6	43.8	62.8	102.1	112.2	94.2	67.3
87.5°	56.1	37.0	16.8	6.7	3.4	4.5	13.5	32.5	42.6	28.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P520543

CATALOG NUMBER: 4WSLA-175-L930-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2091.2	2091.2	2091.2	2091.2	2091.2	2091.2
2.5°	2098.0	2080.0	2086.7	2091.2	2086.7	2106.9
5°	2095.7	2087.9	2086.7	2092.3	2083.4	2103.6
7.5°	2092.3	2087.9	2086.7	2089.0	2077.8	2096.8
10°	2084.5	2077.8	2080.0	2083.4	2068.8	2086.7
12.5°	2069.9	2063.2	2064.3	2075.5	2055.3	2071.0
15°	2045.2	2037.4	2045.2	2057.6	2039.6	2053.1
17.5°	2012.7	2000.3	2013.8	2032.9	2019.4	2031.8
20°	1971.2	1952.1	1966.7	2001.5	1989.1	2004.8
22.5°	1920.7	1897.1	1911.7	1962.2	1958.8	1975.7
25°	1863.5	1835.4	1855.6	1917.3	1924.1	1939.8
27.5°	1799.5	1768.1	1795.0	1868.0	1883.7	1901.6
30°	1730.0	1696.3	1727.7	1813.0	1836.6	1855.6
32.5°	1658.2	1621.1	1657.0	1751.3	1784.9	1809.6
35°	1583.0	1544.9	1585.2	1687.3	1727.7	1752.4
37.5°	1502.2	1465.2	1509.0	1620.0	1668.3	1692.9
40°	1419.2	1377.7	1427.1	1540.4	1604.3	1633.5
42.5°	1333.9	1282.3	1342.9	1465.2	1534.8	1563.9
45°	1238.6	1166.8	1248.7	1385.5	1458.5	1491.0
47.5°	1143.2	1071.4	1154.4	1300.3	1378.8	1408.0
50°	1051.2	989.5	1055.7	1207.2	1298.0	1335.1
52.5°	967.1	916.6	972.7	1116.3	1215.0	1252.0
55°	888.5	849.3	895.3	1026.5	1127.5	1170.1
57.5°	814.5	789.8	821.2	941.3	1046.7	1087.1
60°	744.9	728.1	750.6	857.1	951.4	1000.7
62.5°	676.5	667.5	684.4	768.5	862.7	914.3
65°	610.3	608.1	617.0	691.1	769.6	825.7
67.5°	544.1	543.0	548.6	609.2	678.7	733.7
70°	477.9	484.7	481.3	520.6	587.9	641.7
72.5°	410.6	420.7	415.1	439.8	504.9	547.5
75°	335.4	348.9	337.7	365.7	406.1	452.1
77.5°	258.0	272.6	259.2	283.8	327.6	360.1
80°	185.1	198.6	187.4	206.4	244.6	269.3
82.5°	116.7	126.8	117.8	136.9	175.0	193.0
85°	51.6	57.2	59.5	74.0	107.7	127.9
87.5°	2.2	1.1	2.2	14.6	38.1	56.1
90°	0.0	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°









(END OF REPORT)