

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: P520549

Luminaire Tested: **4WSLA-175-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520549
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-L940-UNV-U
Description: 4 FOOT, 1750 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

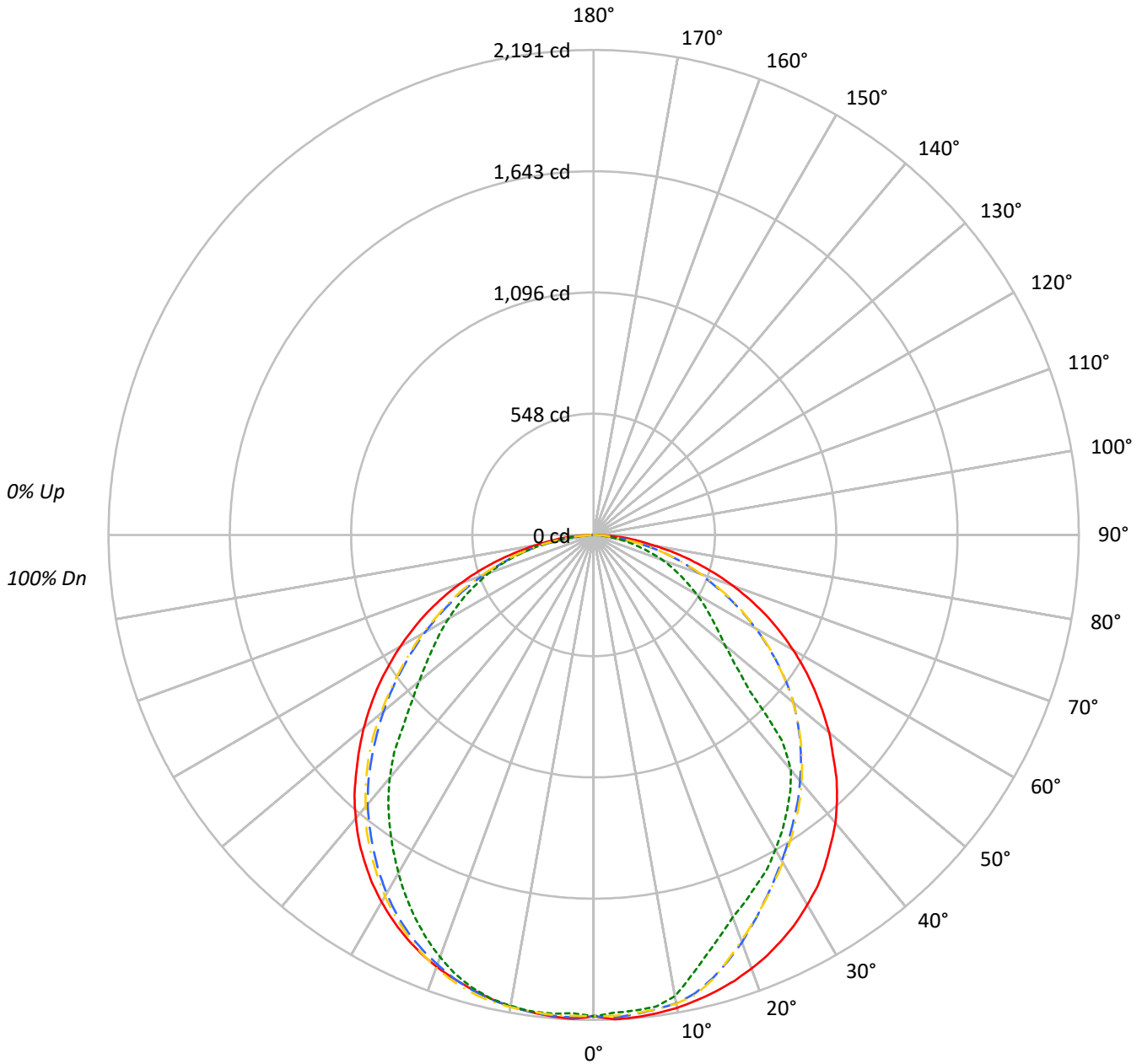
Lumens per Lamp: N/A
Luminaire Lumens: 5833.0 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

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

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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	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°	11702	11702	11702	11702
5°	11816	11653	11797	11728
10°	11857	11564	11826	11807
15°	11894	10951	11842	11803
20°	11939	10522	11892	11625
25°	11977	10349	11915	11333
30°	11990	10200	11903	10961
35°	11971	10002	11849	10554
40°	11932	9736	11744	10064
45°	11800	7565	11533	9234
50°	11622	6476	11339	8615
55°	11416	6063	11121	8285
60°	11200	5789	10861	8149
65°	10933	5481	10562	8051
70°	10499	5213	10058	7929
75°	9775	4585	9314	7544
80°	8678	3831	8136	6400
85°	8213	2736	7200	3674



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	206.6	3.5
10°-20°	589.3	10.1
20°-30°	880.5	15.1
30°-40°	1048.1	18.0
40°-50°	1047.7	18.0
50°-60°	901.5	15.5
60°-70°	678.5	11.6
70°-80°	386.7	6.6
80°-90°	94.1	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°	1676.4	28.7
0°-40°	2724.5	46.7
0°-60°	4673.7	80.1
0°-90°	5833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5833.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2174	2174	2174	2174	2174	
5°	2187	2157	2184	2171	2187	208
15°	2135	1966	2125	2118	2135	603
25°	2017	1743	2006	1908	2017	930
35°	1822	1522	1803	1606	1822	1140
45°	1550	994	1515	1213	1550	1194
55°	1217	646	1185	883	1217	1088
65°	858	430	829	632	858	848
75°	470	220	448	363	470	498
85°	133	44	117	60	133	145
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3
2.5°	2190.7	2170.9	2182.5	2179.0	2160.4	2167.4	2174.3	2167.4	2188.3	2169.7	2182.5
5°	2187.2	2166.2	2173.2	2166.2	2156.9	2159.2	2169.7	2162.7	2183.7	2163.9	2180.2
7.5°	2180.2	2154.5	2161.5	2158.0	2149.9	2151.0	2161.5	2155.7	2174.3	2155.7	2174.3
10°	2169.7	2142.9	2148.7	2133.5	2116.0	2128.9	2149.9	2144.0	2163.9	2142.9	2163.9
12.5°	2153.4	2126.5	2120.7	2070.5	2039.0	2063.5	2127.7	2127.7	2146.4	2126.5	2148.7
15°	2134.7	2105.5	2074.0	1998.2	1965.5	1990.0	2078.7	2109.0	2125.4	2105.5	2127.7
17.5°	2112.5	2078.7	2018.0	1929.4	1899.1	1923.6	2014.5	2081.0	2102.0	2081.0	2100.9
20°	2084.5	2044.9	1958.5	1857.1	1837.2	1859.4	1950.4	2047.2	2076.4	2050.7	2064.7
22.5°	2054.2	2006.4	1892.1	1801.1	1791.7	1805.7	1888.6	2005.2	2043.7	2016.9	2026.2
25°	2016.9	1960.9	1825.6	1749.7	1742.7	1750.9	1827.9	1956.2	2006.4	1978.4	1981.9
27.5°	1977.2	1916.6	1762.6	1706.6	1699.6	1703.1	1767.2	1901.4	1963.2	1935.2	1929.4
30°	1929.4	1864.1	1699.6	1648.3	1641.3	1654.1	1708.9	1845.4	1915.4	1887.4	1869.9
32.5°	1881.6	1806.9	1637.8	1598.1	1584.1	1595.8	1648.3	1787.1	1862.9	1833.7	1804.6
35°	1822.1	1746.2	1573.6	1533.9	1522.3	1535.1	1587.6	1726.4	1803.4	1774.2	1734.6
37.5°	1760.2	1682.1	1515.3	1479.1	1458.1	1473.3	1525.8	1663.4	1741.6	1711.3	1662.3
40°	1698.4	1614.4	1450.0	1412.6	1385.8	1408.0	1461.6	1596.9	1671.6	1643.6	1587.6
42.5°	1626.1	1546.8	1385.8	1333.3	1257.5	1328.6	1392.8	1530.4	1599.3	1572.4	1504.8
45°	1550.3	1474.5	1318.1	1191.0	993.9	1202.7	1322.8	1460.5	1515.3	1489.6	1416.1
47.5°	1464.0	1399.8	1249.3	1055.7	864.4	1067.3	1251.7	1394.0	1436.0	1408.0	1326.3
50°	1388.1	1325.1	1177.0	941.4	773.4	954.2	1175.8	1319.3	1354.3	1328.6	1237.7
52.5°	1301.8	1247.0	1098.8	839.9	705.7	852.7	1096.5	1242.3	1270.3	1240.0	1149.0
55°	1216.7	1167.7	1016.0	750.1	646.2	761.7	1013.7	1163.0	1185.2	1150.2	1055.7
57.5°	1130.3	1086.0	930.9	669.6	591.4	682.4	936.7	1081.3	1096.5	1052.2	965.9
60°	1040.5	1003.2	844.5	598.4	537.8	608.9	842.2	999.7	1009.0	961.2	878.4
62.5°	950.7	916.9	758.2	533.1	482.9	540.1	764.1	913.4	919.2	873.7	788.6
65°	858.5	827.0	674.2	464.3	430.4	475.9	680.1	823.5	829.4	778.1	701.1
67.5°	762.9	737.2	584.4	411.8	380.3	415.3	596.1	732.6	736.1	685.9	615.9
70°	667.2	645.1	505.1	354.6	331.3	355.8	513.3	632.2	639.2	585.6	529.6
72.5°	569.3	551.8	428.1	295.1	274.1	295.1	432.8	540.1	544.8	500.4	445.6
75°	470.1	457.3	349.9	236.8	220.5	235.6	352.3	447.9	447.9	405.9	362.8
77.5°	374.4	365.1	268.3	182.0	170.3	179.6	269.5	354.6	352.3	319.6	285.8
80°	280.0	273.0	192.5	131.8	123.6	128.3	192.5	262.5	262.5	239.1	198.3
82.5°	200.6	192.5	127.1	86.3	81.7	84.0	124.8	183.1	186.6	169.1	134.1
85°	133.0	114.3	68.8	47.8	44.3	45.5	65.3	106.2	116.6	98.0	70.0
87.5°	58.3	38.5	17.5	7.0	3.5	4.7	14.0	33.8	44.3	29.2	9.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2174.3	2174.3	2174.3	2174.3	2174.3	2174.3
2.5°	2181.3	2162.7	2169.7	2174.3	2169.7	2190.7
5°	2179.0	2170.9	2169.7	2175.5	2166.2	2187.2
7.5°	2175.5	2170.9	2169.7	2172.0	2160.4	2180.2
10°	2167.4	2160.4	2162.7	2166.2	2151.0	2169.7
12.5°	2152.2	2145.2	2146.4	2158.0	2137.0	2153.4
15°	2126.5	2118.4	2126.5	2139.4	2120.7	2134.7
17.5°	2092.7	2079.9	2093.9	2113.7	2099.7	2112.5
20°	2049.5	2029.7	2044.9	2081.0	2068.2	2084.5
22.5°	1997.0	1972.5	1987.7	2040.2	2036.7	2054.2
25°	1937.6	1908.4	1929.4	1993.5	2000.5	2016.9
27.5°	1871.1	1838.4	1866.4	1942.2	1958.5	1977.2
30°	1798.7	1763.7	1796.4	1885.1	1909.6	1929.4
32.5°	1724.1	1685.6	1722.9	1820.9	1855.9	1881.6
35°	1645.9	1606.3	1648.3	1754.4	1796.4	1822.1
37.5°	1561.9	1523.4	1568.9	1684.4	1734.6	1760.2
40°	1475.6	1432.5	1483.8	1601.6	1668.1	1698.4
42.5°	1387.0	1333.3	1396.3	1523.4	1595.8	1626.1
45°	1287.8	1213.2	1298.3	1440.6	1516.4	1550.3
47.5°	1188.7	1114.0	1200.3	1352.0	1433.6	1464.0
50°	1093.0	1028.9	1097.7	1255.2	1349.6	1388.1
52.5°	1005.5	953.0	1011.4	1160.7	1263.3	1301.8
55°	923.9	883.0	930.9	1067.3	1172.3	1216.7
57.5°	846.9	821.2	853.9	978.7	1088.3	1130.3
60°	774.6	757.1	780.4	891.2	989.2	1040.5
62.5°	703.4	694.1	711.6	799.1	897.0	950.7
65°	634.6	632.2	641.6	718.6	800.2	858.5
67.5°	565.8	564.6	570.4	633.4	705.7	762.9
70°	496.9	503.9	500.4	541.3	611.2	667.2
72.5°	426.9	437.4	431.6	457.3	524.9	569.3
75°	348.8	362.8	351.1	380.3	422.3	470.1
77.5°	268.3	283.5	269.5	295.1	340.6	374.4
80°	192.5	206.5	194.8	214.6	254.3	280.0
82.5°	121.3	131.8	122.5	142.3	182.0	200.6
85°	53.7	59.5	61.8	77.0	112.0	133.0
87.5°	2.3	1.2	2.3	15.2	39.7	58.3
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)