

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: P520573

Luminaire Tested: **4WSLA-200-L940-UNV-U**

Issue Date: 5/3/2021



Test Information

Test Method: LM-79-08
Report Number: P520573
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-200-L940-UNV-U
Description: 4 FOOT, 2000 LUMEN PER FOOT, WSLA LED LUMINAIRE WITH 4000K, 90 CRI
LEDS WITH NO UPLIGHT
Light Source: -
Ballast/Driver: -

Summary

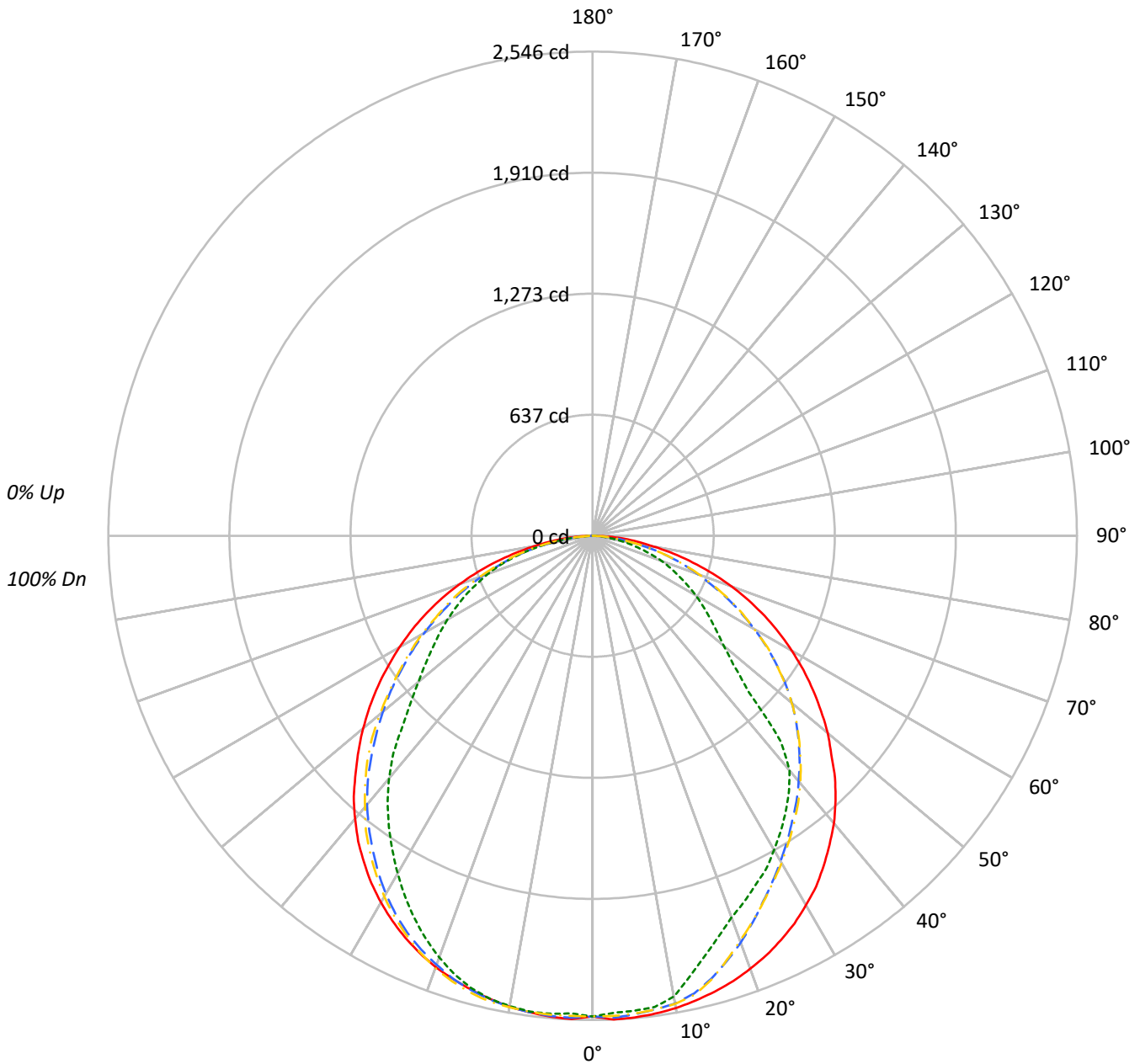
Lumens per Lamp: N/A
Luminaire Lumens: 6780.0 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.31 / 1.17 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.3
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: P520573

CATALOG NUMBER: 4WSLA-200-L940-UNV-U

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°	13602	13602	13602	13602
5°	13735	13544	13713	13632
10°	13782	13442	13746	13723
15°	13825	12730	13765	13719
20°	13877	12231	13823	13512
25°	13921	12029	13849	13172
30°	13937	11855	13836	12740
35°	13915	11625	13772	12266
40°	13870	11317	13651	11698
45°	13715	8793	13406	10733
50°	13510	7526	13181	10013
55°	13270	7049	12926	9631
60°	13018	6729	12624	9472
65°	12708	6371	12276	9359
70°	12205	6060	11692	9216
75°	11362	5330	10828	8769
80°	10085	4454	9456	7438
85°	9547	3180	8373	4267



TEST NUMBER: P520573

CATALOG NUMBER: 4WSLA-200-L940-UNV-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	3.5
10°-20°	684.9	10.1
20°-30°	1023.5	15.1
30°-40°	1218.3	18.0
40°-50°	1217.8	18.0
50°-60°	1047.9	15.5
60°-70°	788.7	11.6
70°-80°	449.4	6.6
80°-90°	109.4	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°	1948.6	28.7
0°-40°	3166.9	46.7
0°-60°	5432.5	80.1
0°-90°	6780.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6780.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2527	2527	2527	2527	2527	
5°	2542	2507	2538	2523	2542	242
15°	2481	2285	2470	2462	2481	701
25°	2344	2026	2332	2218	2344	1081
35°	2118	1769	2096	1867	2118	1325
45°	1802	1155	1761	1410	1802	1388
55°	1414	751	1378	1026	1414	1264
65°	998	500	964	735	998	985
75°	546	256	521	422	546	578
85°	155	52	136	69	155	168
90°	0	0	0	0	0	



TEST NUMBER: P520573

CATALOG NUMBER: 4WSLA-200-L940-UNV-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4
2.5°	2546.3	2523.3	2536.9	2532.8	2511.1	2519.2	2527.4	2519.2	2543.6	2521.9	2536.9
5°	2542.3	2517.9	2526.0	2517.9	2507.0	2509.7	2521.9	2513.8	2538.2	2515.2	2534.1
7.5°	2534.1	2504.3	2512.4	2508.4	2498.9	2500.2	2512.4	2505.7	2527.4	2505.7	2527.4
10°	2521.9	2490.8	2497.5	2479.9	2459.6	2474.5	2498.9	2492.1	2515.2	2490.8	2515.2
12.5°	2503.0	2471.8	2465.0	2406.7	2370.1	2398.6	2473.1	2473.1	2494.8	2471.8	2497.5
15°	2481.3	2447.4	2410.8	2322.6	2284.7	2313.1	2416.2	2451.4	2470.4	2447.4	2473.1
17.5°	2455.5	2416.2	2345.7	2242.6	2207.4	2235.8	2341.6	2418.9	2443.3	2418.9	2441.9
20°	2423.0	2376.9	2276.5	2158.6	2135.5	2161.3	2267.0	2379.6	2413.5	2383.6	2399.9
22.5°	2387.7	2332.1	2199.2	2093.5	2082.6	2098.9	2195.2	2330.8	2375.5	2344.3	2355.2
25°	2344.3	2279.2	2122.0	2033.8	2025.7	2035.2	2124.7	2273.8	2332.1	2299.6	2303.6
27.5°	2298.2	2227.7	2048.7	1983.7	1975.5	1979.6	2054.2	2210.1	2281.9	2249.4	2242.6
30°	2242.6	2166.7	1975.5	1915.9	1907.7	1922.6	1986.4	2145.0	2226.4	2193.8	2173.5
32.5°	2187.0	2100.3	1903.7	1857.6	1841.3	1854.8	1915.9	2077.2	2165.3	2131.4	2097.5
35°	2117.9	2029.8	1829.1	1783.0	1769.4	1784.3	1845.4	2006.7	2096.2	2062.3	2016.2
37.5°	2046.0	1955.2	1761.3	1719.3	1694.8	1712.5	1773.5	1933.5	2024.3	1989.1	1932.1
40°	1974.2	1876.5	1685.4	1642.0	1610.8	1636.5	1698.9	1856.2	1943.0	1910.4	1845.4
42.5°	1890.1	1797.9	1610.8	1549.8	1461.6	1544.3	1618.9	1778.9	1858.9	1827.7	1749.1
45°	1802.0	1713.8	1532.1	1384.4	1155.2	1397.9	1537.6	1697.6	1761.3	1731.5	1646.0
47.5°	1701.6	1627.1	1452.1	1227.1	1004.7	1240.6	1454.9	1620.3	1669.1	1636.5	1541.6
50°	1613.5	1540.3	1368.1	1094.2	898.9	1109.1	1366.7	1533.5	1574.2	1544.3	1438.6
52.5°	1513.2	1449.4	1277.2	976.2	820.3	991.1	1274.5	1444.0	1476.6	1441.3	1335.5
55°	1414.2	1357.2	1181.0	871.8	751.2	885.4	1178.3	1351.8	1377.6	1336.9	1227.1
57.5°	1313.8	1262.3	1082.0	778.3	687.4	793.2	1088.8	1256.9	1274.5	1223.0	1122.7
60°	1209.4	1166.1	981.7	695.6	625.1	707.8	978.9	1162.0	1172.8	1117.2	1021.0
62.5°	1105.0	1065.7	881.3	619.6	561.3	627.8	888.1	1061.7	1068.4	1015.6	916.6
65°	997.9	961.3	783.7	539.6	500.3	553.2	790.5	957.3	964.0	904.4	814.9
67.5°	886.7	856.9	679.3	478.6	442.0	482.7	692.9	851.5	855.6	797.3	715.9
70°	775.6	749.8	587.1	412.2	385.1	413.5	596.6	734.9	743.0	680.7	615.6
72.5°	661.7	641.3	497.6	343.0	318.6	343.0	503.0	627.8	633.2	581.7	517.9
75°	546.4	531.5	406.8	275.2	256.3	273.9	409.5	520.7	520.7	471.8	421.7
77.5°	435.2	424.4	311.9	211.5	198.0	208.8	313.2	412.2	409.5	371.5	332.2
80°	325.4	317.3	223.7	153.2	143.7	149.1	223.7	305.1	305.1	278.0	230.5
82.5°	233.2	223.7	147.8	100.3	94.9	97.6	145.1	212.9	216.9	196.6	155.9
85°	154.6	132.9	80.0	55.6	51.5	52.9	75.9	123.4	135.6	113.9	81.4
87.5°	67.8	44.7	20.3	8.1	4.1	5.4	16.3	39.3	51.5	33.9	10.8
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: P520573

CATALOG NUMBER: 4WSLA-200-L940-UNV-U

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	2527.4	2527.4	2527.4	2527.4	2527.4	2527.4
2.5°	2535.5	2513.8	2521.9	2527.4	2521.9	2546.3
5°	2532.8	2523.3	2521.9	2528.7	2517.9	2542.3
7.5°	2528.7	2523.3	2521.9	2524.6	2511.1	2534.1
10°	2519.2	2511.1	2513.8	2517.9	2500.2	2521.9
12.5°	2501.6	2493.5	2494.8	2508.4	2484.0	2503.0
15°	2471.8	2462.3	2471.8	2486.7	2465.0	2481.3
17.5°	2432.4	2417.5	2433.8	2456.9	2440.6	2455.5
20°	2382.3	2359.2	2376.9	2418.9	2404.0	2423.0
22.5°	2321.3	2292.8	2310.4	2371.4	2367.4	2387.7
25°	2252.1	2218.2	2242.6	2317.2	2325.3	2344.3
27.5°	2174.8	2136.9	2169.4	2257.5	2276.5	2298.2
30°	2090.8	2050.1	2088.1	2191.1	2219.6	2242.6
32.5°	2004.0	1959.2	2002.6	2116.5	2157.2	2187.0
35°	1913.1	1867.0	1915.9	2039.2	2088.1	2117.9
37.5°	1815.5	1770.8	1823.7	1957.9	2016.2	2046.0
40°	1715.2	1665.0	1724.7	1861.6	1938.9	1974.2
42.5°	1612.1	1549.8	1623.0	1770.8	1854.8	1890.1
45°	1496.9	1410.1	1509.1	1674.5	1762.6	1802.0
47.5°	1381.6	1294.9	1395.2	1571.5	1666.4	1701.6
50°	1270.5	1195.9	1275.9	1458.9	1568.8	1613.5
52.5°	1168.8	1107.8	1175.5	1349.1	1468.4	1513.2
55°	1073.9	1026.4	1082.0	1240.6	1362.7	1414.2
57.5°	984.4	954.5	992.5	1137.6	1265.0	1313.8
60°	900.3	880.0	907.1	1035.9	1149.8	1209.4
62.5°	817.6	806.7	827.1	928.8	1042.7	1105.0
65°	737.6	734.9	745.7	835.2	930.1	997.9
67.5°	657.6	656.2	663.0	736.2	820.3	886.7
70°	577.6	585.7	581.7	629.1	710.5	775.6
72.5°	496.3	508.5	501.7	531.5	610.1	661.7
75°	405.4	421.7	408.1	442.0	490.8	546.4
77.5°	311.9	329.5	313.2	343.0	395.9	435.2
80°	223.7	240.0	226.4	249.5	295.6	325.4
82.5°	141.0	153.2	142.4	165.4	211.5	233.2
85°	62.4	69.1	71.9	89.5	130.2	154.6
87.5°	2.7	1.4	2.7	17.6	46.1	67.8
90°	0.0	0.0	0.0	0.0	0.0	0.0



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









(END OF REPORT)