

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: P506352

Luminaire Tested: **22PD-55-PL1-L850**

Issue Date: 3/26/2021

Test Information

Test Method: LM-79-08
Report Number: P506352
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-3)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-55-PL1-L850
Description: 5500 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 80 CRI,
5000K LEDS
Light Source: -
Ballast/Driver: -

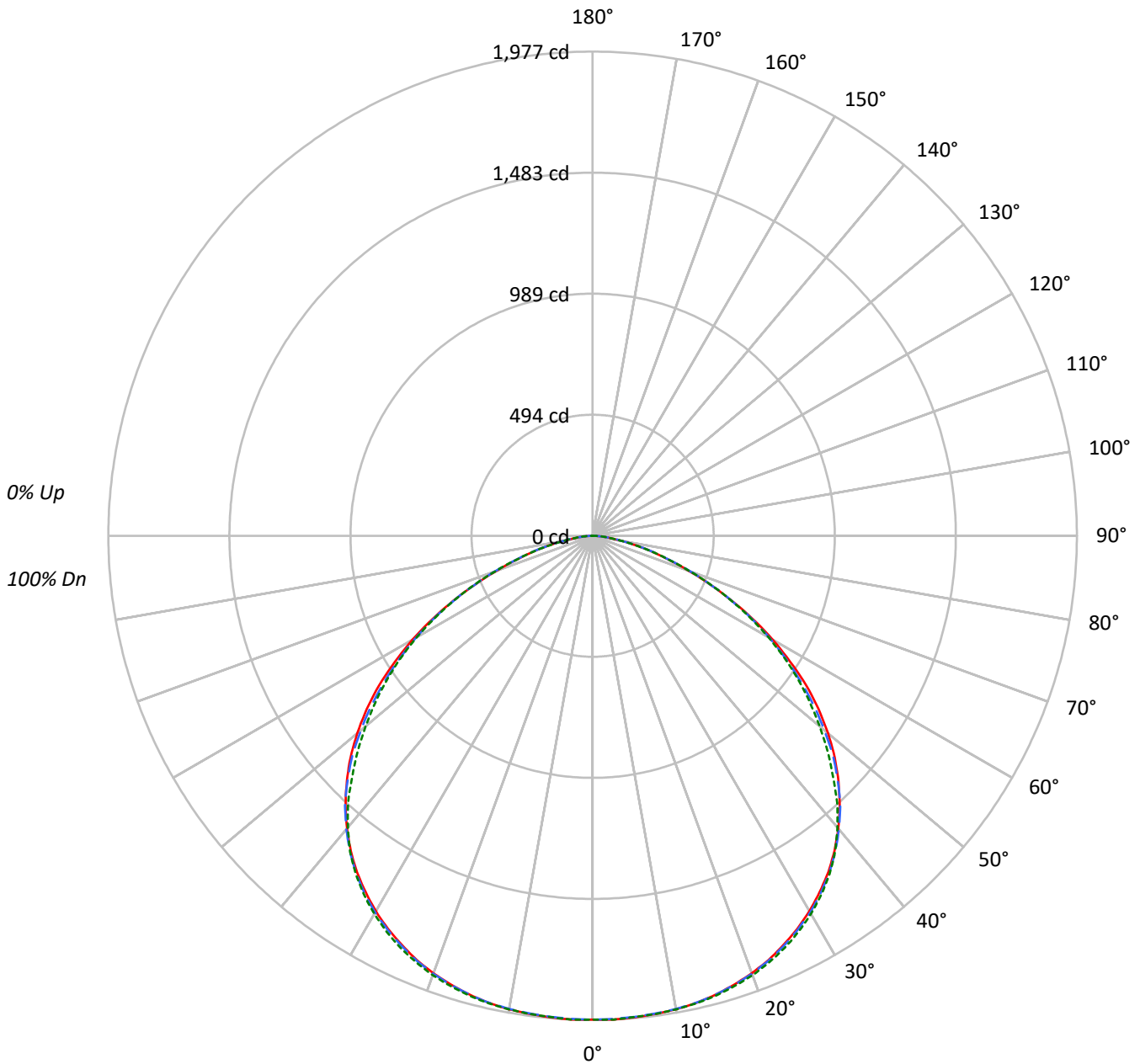
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5597.1 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.33 / 1.42
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 45.4
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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CATALOG NUMBER: 22PD-55-PL1-L850

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 | 110 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 64 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 5318 | 5318 | 5318 |
| 5° | 5332 | 5327 | 5329 |
| 10° | 5365 | 5360 | 5365 |
| 15° | 5404 | 5404 | 5416 |
| 20° | 5444 | 5450 | 5468 |
| 25° | 5473 | 5485 | 5512 |
| 30° | 5500 | 5518 | 5539 |
| 35° | 5509 | 5527 | 5538 |
| 40° | 5480 | 5494 | 5460 |
| 45° | 5402 | 5386 | 5277 |
| 50° | 5249 | 5167 | 5063 |
| 55° | 4995 | 4867 | 4812 |
| 60° | 4573 | 4486 | 4460 |
| 65° | 3987 | 3978 | 3965 |
| 70° | 3268 | 3323 | 3312 |
| 75° | 2590 | 2634 | 2590 |
| 80° | 1898 | 1888 | 1877 |
| 85° | 1269 | 1247 | 1331 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 187.9 | 3.4 |
| 10°-20° | 548.3 | 9.8 |
| 20°-30° | 852.2 | 15.2 |
| 30°-40° | 1050.6 | 18.8 |
| 40°-50° | 1085.2 | 19.4 |
| 50°-60° | 928.6 | 16.6 |
| 60°-70° | 619.7 | 11.1 |
| 70°-80° | 272.0 | 4.9 |
| 80°-90° | 52.6 | 0.9 |
| 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° | 1588.4 | 28.4 |
| 0°-40° | 2639.0 | 47.2 |
| 0°-60° | 4652.8 | 83.1 |
| 0°-90° | 5597.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5597.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1976 | 1976 | 1976 | 1976 | 1976 | |
| 5° | 1974 | 1971 | 1972 | 1970 | 1973 | 188 |
| 15° | 1940 | 1938 | 1940 | 1941 | 1944 | 548 |
| 25° | 1843 | 1843 | 1847 | 1853 | 1856 | 850 |
| 35° | 1677 | 1677 | 1682 | 1686 | 1686 | 1048 |
| 45° | 1419 | 1419 | 1415 | 1402 | 1387 | 1093 |
| 55° | 1065 | 1051 | 1037 | 1032 | 1026 | 946 |
| 65° | 626 | 625 | 625 | 627 | 623 | 621 |
| 75° | 249 | 247 | 253 | 252 | 249 | 270 |
| 85° | 41 | 40 | 40 | 42 | 43 | 53 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506352

CATALOG NUMBER: 22PD-55-PL1-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1976.1 | 1976.1 | 1976.1 | 1976.1 | 1976.1 |
| 2.5° | 1977.4 | 1974.7 | 1974.0 | 1974.0 | 1977.4 |
| 5° | 1974.0 | 1971.2 | 1971.9 | 1970.5 | 1972.6 |
| 7.5° | 1969.1 | 1966.3 | 1967.0 | 1966.3 | 1969.1 |
| 10° | 1963.5 | 1960.7 | 1961.4 | 1960.7 | 1963.5 |
| 12.5° | 1953.8 | 1951.7 | 1953.1 | 1953.8 | 1955.9 |
| 15° | 1939.9 | 1937.8 | 1939.9 | 1941.3 | 1944.0 |
| 17.5° | 1921.8 | 1920.4 | 1922.5 | 1924.6 | 1928.0 |
| 20° | 1900.9 | 1899.5 | 1903.0 | 1905.1 | 1909.3 |
| 22.5° | 1875.2 | 1873.8 | 1877.3 | 1882.1 | 1884.9 |
| 25° | 1843.2 | 1843.2 | 1847.3 | 1852.9 | 1856.4 |
| 27.5° | 1809.1 | 1808.4 | 1813.2 | 1818.8 | 1822.3 |
| 30° | 1770.1 | 1768.7 | 1775.7 | 1780.5 | 1782.6 |
| 32.5° | 1724.9 | 1725.6 | 1731.8 | 1736.7 | 1737.4 |
| 35° | 1676.9 | 1676.9 | 1682.4 | 1685.9 | 1685.9 |
| 37.5° | 1621.9 | 1621.2 | 1626.8 | 1628.2 | 1626.1 |
| 40° | 1560.0 | 1560.7 | 1564.1 | 1563.4 | 1554.4 |
| 42.5° | 1493.2 | 1493.9 | 1496.7 | 1486.9 | 1477.9 |
| 45° | 1419.4 | 1418.7 | 1415.2 | 1402.0 | 1386.7 |
| 47.5° | 1340.8 | 1337.3 | 1331.7 | 1311.6 | 1300.4 |
| 50° | 1253.8 | 1248.3 | 1234.3 | 1218.3 | 1209.3 |
| 52.5° | 1162.0 | 1152.2 | 1138.3 | 1125.8 | 1118.1 |
| 55° | 1064.6 | 1051.3 | 1037.4 | 1031.9 | 1025.6 |
| 57.5° | 956.0 | 947.7 | 935.8 | 933.1 | 928.9 |
| 60° | 849.6 | 840.5 | 833.6 | 833.6 | 828.7 |
| 62.5° | 738.2 | 732.7 | 729.9 | 731.3 | 726.4 |
| 65° | 626.2 | 624.8 | 624.8 | 626.9 | 622.7 |
| 67.5° | 517.7 | 520.5 | 519.8 | 526.7 | 521.1 |
| 70° | 415.4 | 420.3 | 422.3 | 429.3 | 421.0 |
| 72.5° | 327.0 | 327.7 | 330.5 | 332.6 | 328.4 |
| 75° | 249.1 | 247.0 | 253.3 | 251.9 | 249.1 |
| 77.5° | 180.2 | 178.8 | 180.9 | 182.3 | 178.8 |
| 80° | 122.5 | 121.1 | 121.8 | 123.9 | 121.1 |
| 82.5° | 77.2 | 75.8 | 75.8 | 77.9 | 77.2 |
| 85° | 41.1 | 40.4 | 40.4 | 41.7 | 43.1 |
| 87.5° | 14.6 | 13.9 | 14.6 | 14.6 | 14.6 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)