

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: P506328

Luminaire Tested: **22PD-50-PL1-L935**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506328
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-50-PL1-L935
Description: 5000 LUMEN, 2X2 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
3500K LEDS
Light Source: -
Ballast/Driver: -

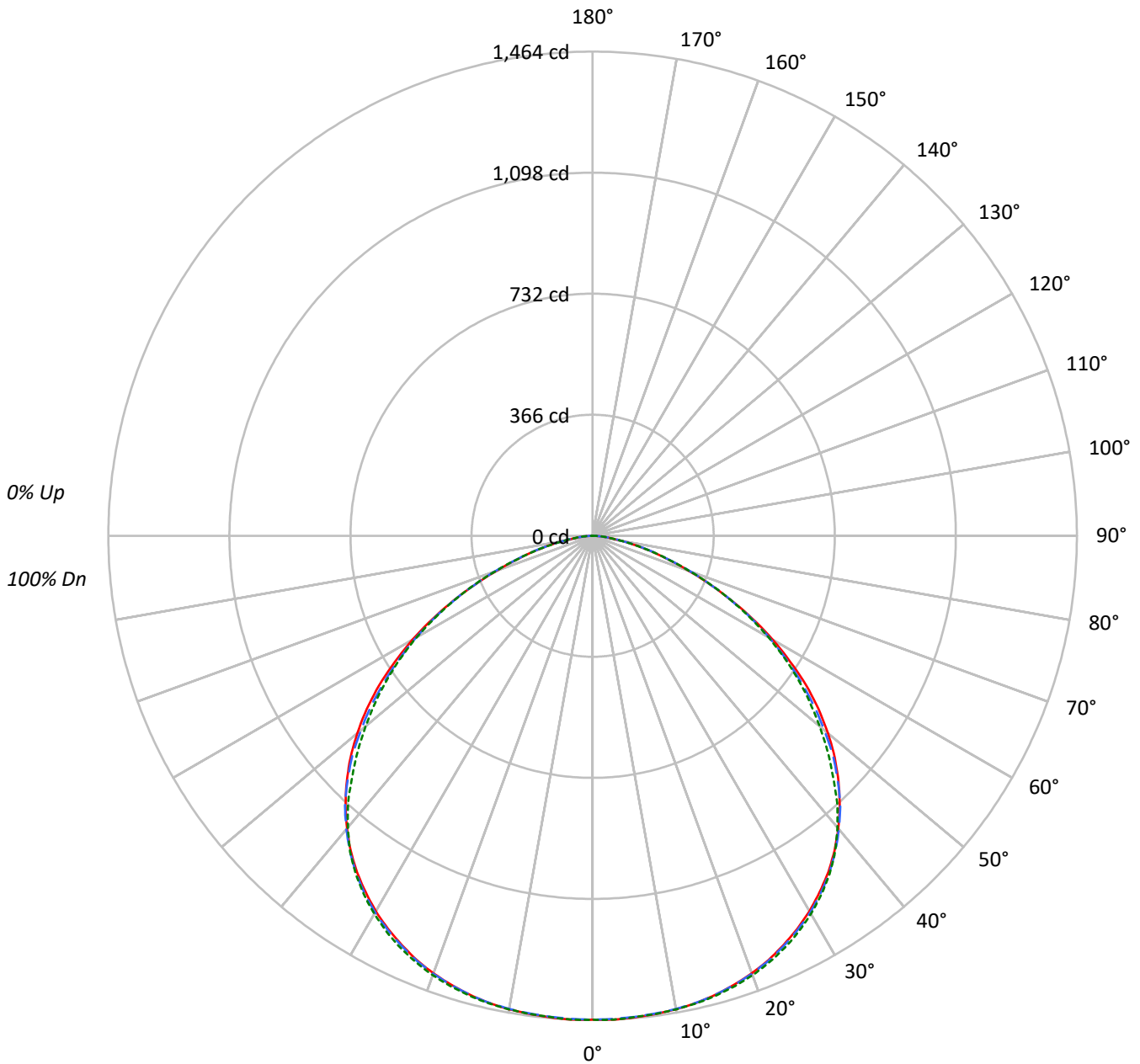
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.9 lumens
Efficiency: N/A
Efficacy: 98.9 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): 41.9
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-50-PL1-L935

Luminous Intensity Polar Plot





TEST NUMBER: P506328

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 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 | | | | 100 |
| 1 | 110 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | 85 |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 84 | 79 | 76 | 81 | 77 | 74 | 72 | | | | 72 |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | 61 |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | 52 |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | 45 |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | 40 |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | 35 |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 31 | | | | 31 |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | 28 |
| 10 | 54 | 41 | 33 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | 25 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3938 | 3938 | 3938 |
| 5° | 3949 | 3945 | 3946 |
| 10° | 3973 | 3969 | 3973 |
| 15° | 4002 | 4002 | 4011 |
| 20° | 4031 | 4036 | 4049 |
| 25° | 4053 | 4062 | 4082 |
| 30° | 4073 | 4086 | 4102 |
| 35° | 4079 | 4093 | 4101 |
| 40° | 4058 | 4069 | 4044 |
| 45° | 4000 | 3989 | 3908 |
| 50° | 3887 | 3827 | 3749 |
| 55° | 3699 | 3605 | 3563 |
| 60° | 3386 | 3322 | 3303 |
| 65° | 2953 | 2946 | 2937 |
| 70° | 2420 | 2461 | 2452 |
| 75° | 1918 | 1951 | 1918 |
| 80° | 1406 | 1398 | 1390 |
| 85° | 939 | 923 | 985 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 139.1 | 3.4 |
| 10°-20° | 406.0 | 9.8 |
| 20°-30° | 631.1 | 15.2 |
| 30°-40° | 778.0 | 18.8 |
| 40°-50° | 803.7 | 19.4 |
| 50°-60° | 687.7 | 16.6 |
| 60°-70° | 459.0 | 11.1 |
| 70°-80° | 201.4 | 4.9 |
| 80°-90° | 38.9 | 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° | 1176.3 | 28.4 |
| 0°-40° | 1954.3 | 47.2 |
| 0°-60° | 3445.7 | 83.1 |
| 0°-90° | 4144.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4144.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1463 | 1463 | 1463 | 1463 | 1463 | |
| 5° | 1462 | 1460 | 1460 | 1459 | 1461 | 139 |
| 15° | 1437 | 1435 | 1437 | 1438 | 1440 | 406 |
| 25° | 1365 | 1365 | 1368 | 1372 | 1375 | 630 |
| 35° | 1242 | 1242 | 1246 | 1248 | 1248 | 776 |
| 45° | 1051 | 1051 | 1048 | 1038 | 1027 | 809 |
| 55° | 788 | 779 | 768 | 764 | 760 | 701 |
| 65° | 464 | 463 | 463 | 464 | 461 | 460 |
| 75° | 184 | 183 | 188 | 186 | 184 | 200 |
| 85° | 30 | 30 | 30 | 31 | 32 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506328

CATALOG NUMBER: 22PD-50-PL1-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1463.4 | 1463.4 | 1463.4 | 1463.4 | 1463.4 |
| 2.5° | 1464.4 | 1462.3 | 1461.8 | 1461.8 | 1464.4 |
| 5° | 1461.8 | 1459.8 | 1460.3 | 1459.3 | 1460.8 |
| 7.5° | 1458.2 | 1456.2 | 1456.7 | 1456.2 | 1458.2 |
| 10° | 1454.1 | 1452.0 | 1452.6 | 1452.0 | 1454.1 |
| 12.5° | 1446.9 | 1445.3 | 1446.4 | 1446.9 | 1448.4 |
| 15° | 1436.6 | 1435.0 | 1436.6 | 1437.6 | 1439.7 |
| 17.5° | 1423.2 | 1422.2 | 1423.7 | 1425.2 | 1427.8 |
| 20° | 1407.7 | 1406.7 | 1409.3 | 1410.8 | 1413.9 |
| 22.5° | 1388.7 | 1387.6 | 1390.2 | 1393.8 | 1395.9 |
| 25° | 1365.0 | 1365.0 | 1368.1 | 1372.2 | 1374.8 |
| 27.5° | 1339.7 | 1339.2 | 1342.8 | 1346.9 | 1349.5 |
| 30° | 1310.9 | 1309.8 | 1315.0 | 1318.6 | 1320.1 |
| 32.5° | 1277.4 | 1277.9 | 1282.5 | 1286.1 | 1286.6 |
| 35° | 1241.8 | 1241.8 | 1245.9 | 1248.5 | 1248.5 |
| 37.5° | 1201.1 | 1200.6 | 1204.7 | 1205.7 | 1204.2 |
| 40° | 1155.2 | 1155.8 | 1158.3 | 1157.8 | 1151.1 |
| 42.5° | 1105.8 | 1106.3 | 1108.4 | 1101.1 | 1094.4 |
| 45° | 1051.2 | 1050.6 | 1048.1 | 1038.3 | 1026.9 |
| 47.5° | 992.9 | 990.4 | 986.2 | 971.3 | 963.0 |
| 50° | 928.5 | 924.4 | 914.1 | 902.2 | 895.5 |
| 52.5° | 860.5 | 853.3 | 843.0 | 833.7 | 828.0 |
| 55° | 788.4 | 778.6 | 768.3 | 764.2 | 759.5 |
| 57.5° | 708.0 | 701.8 | 693.0 | 691.0 | 687.9 |
| 60° | 629.2 | 622.5 | 617.3 | 617.3 | 613.7 |
| 62.5° | 546.7 | 542.6 | 540.5 | 541.6 | 537.9 |
| 65° | 463.7 | 462.7 | 462.7 | 464.3 | 461.2 |
| 67.5° | 383.4 | 385.4 | 384.9 | 390.1 | 385.9 |
| 70° | 307.6 | 311.2 | 312.8 | 317.9 | 311.7 |
| 72.5° | 242.2 | 242.7 | 244.8 | 246.3 | 243.2 |
| 75° | 184.5 | 182.9 | 187.6 | 186.5 | 184.5 |
| 77.5° | 133.5 | 132.4 | 134.0 | 135.0 | 132.4 |
| 80° | 90.7 | 89.7 | 90.2 | 91.7 | 89.7 |
| 82.5° | 57.2 | 56.2 | 56.2 | 57.7 | 57.2 |
| 85° | 30.4 | 29.9 | 29.9 | 30.9 | 31.9 |
| 87.5° | 10.8 | 10.3 | 10.8 | 10.8 | 10.8 |
| 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)