

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: P506599

Luminaire Tested: **24PD-35-PL1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-35-PL1-L940
Description: 3500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

Summary

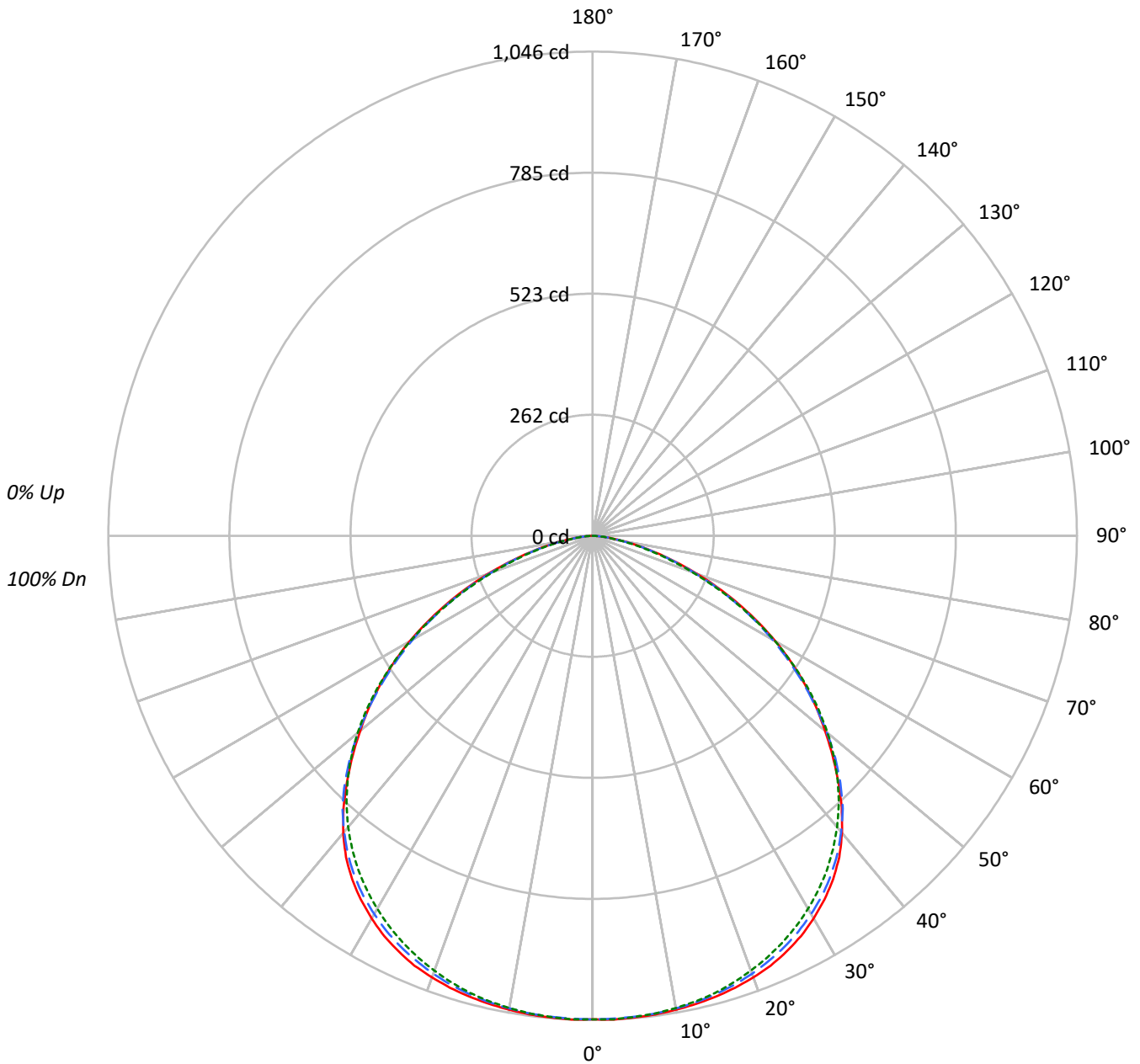
Lumens per Lamp: N/A
Luminaire Lumens: 2996.9 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.32 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.3
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: P506599

CATALOG NUMBER: 24PD-35-PL1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P506599

CATALOG NUMBER: 24PD-35-PL1-L940

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 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 74 | 68 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 56 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 58 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 48 | 42 | 55 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 41 | 39 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 52 | 44 | 38 | 64 | 52 | 43 | 37 | 50 | 43 | 37 | 49 | 42 | 37 | 47 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 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 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1406 | 1406 | 1406 |
| 5° | 1411 | 1409 | 1409 |
| 10° | 1421 | 1417 | 1416 |
| 15° | 1436 | 1428 | 1424 |
| 20° | 1454 | 1442 | 1432 |
| 25° | 1472 | 1455 | 1440 |
| 30° | 1483 | 1466 | 1446 |
| 35° | 1488 | 1473 | 1449 |
| 40° | 1472 | 1467 | 1443 |
| 45° | 1427 | 1440 | 1424 |
| 50° | 1372 | 1382 | 1387 |
| 55° | 1312 | 1302 | 1322 |
| 60° | 1228 | 1208 | 1223 |
| 65° | 1105 | 1083 | 1082 |
| 70° | 941 | 919 | 898 |
| 75° | 741 | 724 | 695 |
| 80° | 530 | 514 | 485 |
| 85° | 313 | 309 | 287 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 99.4 | 3.3 |
| 10°-20° | 290.0 | 9.7 |
| 20°-30° | 452.0 | 15.1 |
| 30°-40° | 559.3 | 18.7 |
| 40°-50° | 579.8 | 19.3 |
| 50°-60° | 499.2 | 16.7 |
| 60°-70° | 338.7 | 11.3 |
| 70°-80° | 151.1 | 5.0 |
| 80°-90° | 27.2 | 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° | 841.4 | 28.1 |
| 0°-40° | 1400.7 | 46.7 |
| 0°-60° | 2479.8 | 82.7 |
| 0°-90° | 2996.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2996.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1045 | 1045 | 1045 | 1045 | 1045 | |
| 5° | 1045 | 1043 | 1043 | 1043 | 1043 | 100 |
| 15° | 1031 | 1028 | 1026 | 1023 | 1022 | 291 |
| 25° | 991 | 988 | 980 | 973 | 970 | 457 |
| 35° | 906 | 903 | 897 | 887 | 882 | 565 |
| 45° | 750 | 754 | 757 | 754 | 749 | 578 |
| 55° | 560 | 560 | 555 | 562 | 564 | 499 |
| 65° | 347 | 348 | 340 | 336 | 340 | 343 |
| 75° | 142 | 144 | 139 | 136 | 134 | 155 |
| 85° | 20 | 21 | 20 | 20 | 19 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1044.7 | 1044.7 | 1044.7 | 1044.7 | 1044.7 |
| 2.5° | 1046.1 | 1043.8 | 1044.1 | 1044.4 | 1045.5 |
| 5° | 1044.7 | 1043.2 | 1043.0 | 1043.0 | 1043.2 |
| 7.5° | 1043.0 | 1041.2 | 1041.0 | 1040.7 | 1040.7 |
| 10° | 1039.8 | 1038.1 | 1036.9 | 1036.4 | 1036.1 |
| 12.5° | 1035.5 | 1033.5 | 1032.1 | 1030.9 | 1030.1 |
| 15° | 1030.7 | 1027.8 | 1025.5 | 1023.2 | 1022.4 |
| 17.5° | 1023.8 | 1021.2 | 1017.2 | 1013.5 | 1012.1 |
| 20° | 1015.2 | 1012.6 | 1006.9 | 1001.8 | 999.8 |
| 22.5° | 1005.2 | 1001.5 | 994.3 | 988.6 | 985.7 |
| 25° | 991.2 | 987.5 | 980.0 | 972.9 | 970.0 |
| 27.5° | 974.9 | 971.4 | 963.4 | 954.9 | 951.4 |
| 30° | 954.6 | 952.3 | 943.7 | 934.3 | 930.5 |
| 32.5° | 932.0 | 929.7 | 922.2 | 911.7 | 907.4 |
| 35° | 905.9 | 903.4 | 896.8 | 887.1 | 881.9 |
| 37.5° | 875.0 | 874.2 | 867.9 | 857.9 | 853.0 |
| 40° | 838.1 | 839.9 | 835.0 | 826.4 | 821.5 |
| 42.5° | 796.1 | 799.8 | 799.8 | 791.8 | 786.9 |
| 45° | 750.0 | 753.5 | 756.9 | 754.0 | 748.6 |
| 47.5° | 702.8 | 706.6 | 710.6 | 711.7 | 707.1 |
| 50° | 655.4 | 657.6 | 660.2 | 665.4 | 662.5 |
| 52.5° | 608.2 | 609.0 | 608.2 | 615.0 | 614.4 |
| 55° | 559.5 | 559.8 | 555.2 | 561.5 | 563.5 |
| 57.5° | 508.9 | 509.7 | 502.3 | 505.7 | 510.0 |
| 60° | 456.3 | 457.1 | 448.8 | 449.4 | 454.5 |
| 62.5° | 401.9 | 403.1 | 394.8 | 392.8 | 397.3 |
| 65° | 347.0 | 348.4 | 340.1 | 336.4 | 339.8 |
| 67.5° | 292.3 | 294.1 | 286.3 | 281.8 | 282.6 |
| 70° | 239.1 | 240.6 | 233.7 | 229.4 | 228.3 |
| 72.5° | 188.5 | 189.9 | 184.5 | 180.2 | 178.2 |
| 75° | 142.5 | 143.6 | 139.3 | 136.2 | 133.6 |
| 77.5° | 102.4 | 103.3 | 99.8 | 97.5 | 95.0 |
| 80° | 68.4 | 68.7 | 66.4 | 64.9 | 62.6 |
| 82.5° | 40.9 | 41.2 | 39.8 | 39.2 | 37.5 |
| 85° | 20.3 | 20.6 | 20.0 | 20.0 | 18.6 |
| 87.5° | 7.2 | 6.9 | 7.2 | 7.2 | 6.3 |
| 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)