

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: P506610

Luminaire Tested: **24PD-35-PW1-L830**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2102-132-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-35-PW1-L830
Description: 3500 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH WAVES LENS AND 80 CRI,
3000K LEDS
Light Source: -
Ballast/Driver: -

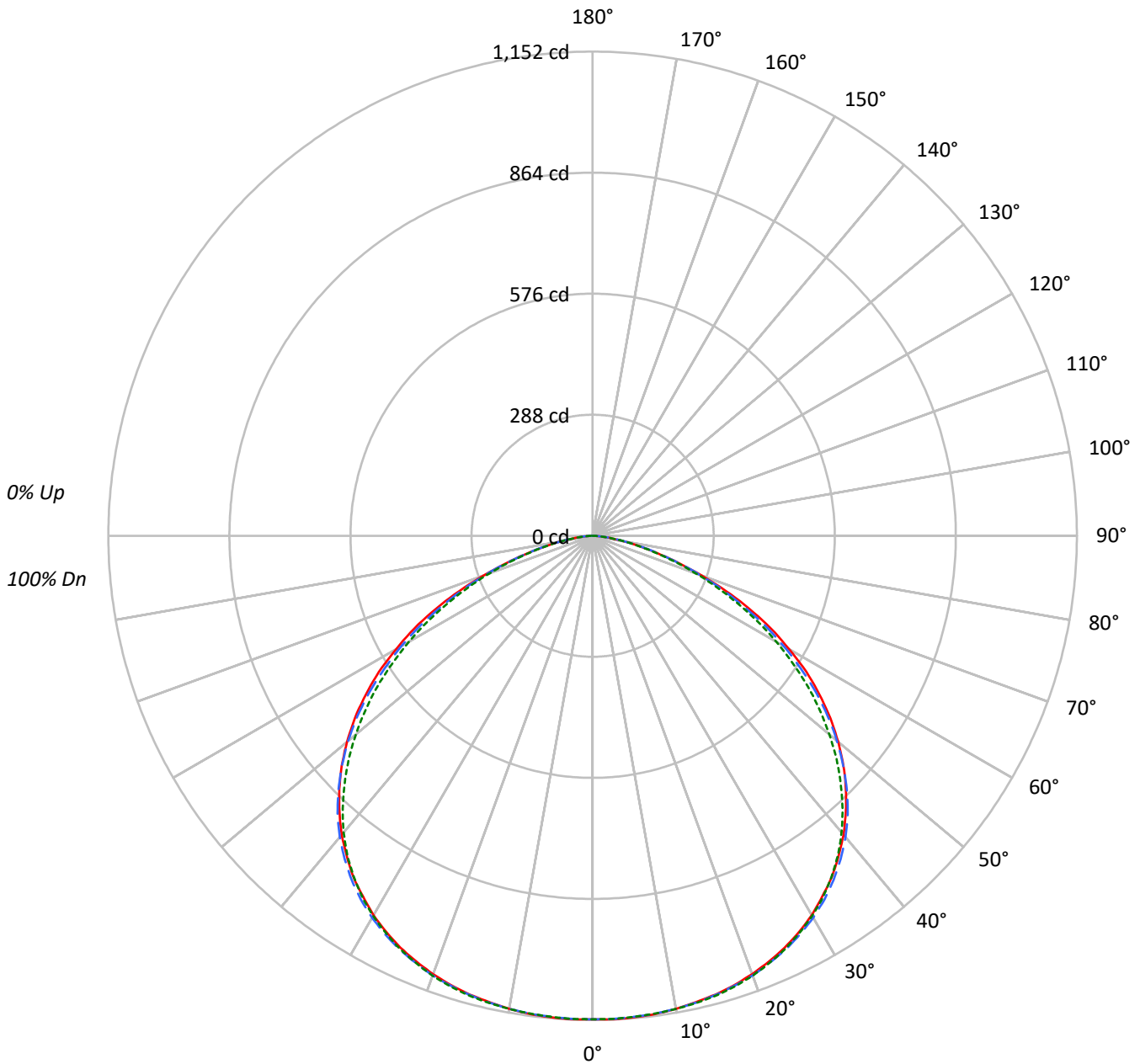
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373.7 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.34 / 1.45
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: P506610
CATALOG NUMBER: 24PD-35-PW1-L830

Luminous Intensity Polar Plot





TEST NUMBER: P506610

CATALOG NUMBER: 24PD-35-PW1-L830

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 | | | |
| 1 | 109 | 105 | 101 | 97 | 107 | 103 | 99 | 96 | 98 | 95 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 62 | 60 | | | |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | |
| 5 | 77 | 64 | 55 | 48 | 74 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 | | | |
| 6 | 71 | 57 | 49 | 42 | 69 | 56 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 51 | 46 | 41 | 39 | | | |
| 7 | 65 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 37 | 33 | 43 | 37 | 32 | 30 | | | |
| 9 | 57 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 29 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | |
| 10 | 53 | 40 | 32 | 27 | 52 | 40 | 32 | 27 | 39 | 32 | 27 | 38 | 31 | 27 | 37 | 31 | 26 | 25 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1548 | 1548 | 1548 |
| 5° | 1553 | 1552 | 1552 |
| 10° | 1561 | 1561 | 1562 |
| 15° | 1574 | 1575 | 1578 |
| 20° | 1589 | 1594 | 1595 |
| 25° | 1605 | 1613 | 1610 |
| 30° | 1620 | 1630 | 1623 |
| 35° | 1629 | 1642 | 1627 |
| 40° | 1631 | 1643 | 1618 |
| 45° | 1621 | 1627 | 1588 |
| 50° | 1596 | 1589 | 1539 |
| 55° | 1545 | 1520 | 1466 |
| 60° | 1451 | 1414 | 1359 |
| 65° | 1309 | 1261 | 1209 |
| 70° | 1079 | 1063 | 1024 |
| 75° | 825 | 833 | 800 |
| 80° | 573 | 590 | 577 |
| 85° | 343 | 357 | 347 |



TEST NUMBER: P506610
 CATALOG NUMBER: 24PD-35-PW1-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 109.5 | 3.2 |
| 10°-20° | 319.8 | 9.5 |
| 20°-30° | 500.2 | 14.8 |
| 30°-40° | 622.2 | 18.4 |
| 40°-50° | 653.8 | 19.4 |
| 50°-60° | 573.9 | 17.0 |
| 60°-70° | 390.8 | 11.6 |
| 70°-80° | 172.4 | 5.1 |
| 80°-90° | 31.0 | 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° | 929.5 | 27.6 |
| 0°-40° | 1551.7 | 46.0 |
| 0°-60° | 2779.4 | 82.4 |
| 0°-90° | 3373.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3373.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1150 | 1150 | 1150 | 1150 | 1150 | |
| 5° | 1150 | 1150 | 1149 | 1148 | 1149 | 110 |
| 15° | 1130 | 1131 | 1131 | 1131 | 1133 | 319 |
| 25° | 1081 | 1084 | 1086 | 1086 | 1085 | 499 |
| 35° | 992 | 996 | 1000 | 995 | 991 | 620 |
| 45° | 852 | 858 | 855 | 841 | 835 | 656 |
| 55° | 659 | 656 | 648 | 631 | 625 | 587 |
| 65° | 411 | 401 | 396 | 387 | 380 | 405 |
| 75° | 159 | 160 | 160 | 157 | 154 | 174 |
| 85° | 22 | 23 | 23 | 23 | 22 | 30 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506610

CATALOG NUMBER: 24PD-35-PW1-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1150.4 | 1150.4 | 1150.4 | 1150.4 | 1150.4 |
| 2.5° | 1151.7 | 1151.1 | 1150.4 | 1149.5 | 1150.4 |
| 5° | 1150.1 | 1149.8 | 1148.8 | 1147.6 | 1148.8 |
| 7.5° | 1147.6 | 1147.6 | 1146.6 | 1145.6 | 1146.3 |
| 10° | 1142.7 | 1143.7 | 1142.7 | 1141.8 | 1143.1 |
| 12.5° | 1136.3 | 1137.9 | 1137.6 | 1137.6 | 1138.6 |
| 15° | 1129.9 | 1131.2 | 1130.9 | 1130.9 | 1133.1 |
| 17.5° | 1120.9 | 1122.5 | 1122.8 | 1123.5 | 1124.7 |
| 20° | 1109.7 | 1111.9 | 1113.2 | 1112.9 | 1113.8 |
| 22.5° | 1096.5 | 1099.1 | 1100.0 | 1100.7 | 1100.0 |
| 25° | 1081.4 | 1084.3 | 1086.2 | 1085.6 | 1084.6 |
| 27.5° | 1063.1 | 1066.3 | 1068.9 | 1067.3 | 1065.3 |
| 30° | 1042.5 | 1045.4 | 1049.3 | 1046.4 | 1044.5 |
| 32.5° | 1017.2 | 1022.6 | 1026.1 | 1022.6 | 1019.7 |
| 35° | 991.8 | 996.3 | 999.5 | 994.7 | 990.8 |
| 37.5° | 961.0 | 966.4 | 969.3 | 962.6 | 958.4 |
| 40° | 928.5 | 934.0 | 935.6 | 926.9 | 921.4 |
| 42.5° | 891.6 | 897.7 | 898.3 | 886.1 | 880.0 |
| 45° | 852.1 | 857.5 | 855.3 | 841.2 | 834.7 |
| 47.5° | 809.4 | 813.2 | 808.4 | 793.9 | 786.9 |
| 50° | 762.5 | 764.7 | 758.9 | 741.9 | 735.2 |
| 52.5° | 713.0 | 712.7 | 705.3 | 688.3 | 680.9 |
| 55° | 658.7 | 656.2 | 648.1 | 631.1 | 625.0 |
| 57.5° | 603.2 | 595.1 | 586.5 | 572.0 | 564.0 |
| 60° | 539.3 | 533.1 | 525.4 | 511.0 | 504.9 |
| 62.5° | 478.9 | 467.9 | 461.5 | 448.7 | 443.2 |
| 65° | 411.1 | 401.1 | 396.0 | 387.3 | 379.9 |
| 67.5° | 343.0 | 335.3 | 331.8 | 325.7 | 318.9 |
| 70° | 274.3 | 272.0 | 270.1 | 264.3 | 260.2 |
| 72.5° | 213.6 | 212.9 | 212.6 | 209.4 | 205.2 |
| 75° | 158.7 | 159.6 | 160.3 | 157.4 | 153.8 |
| 77.5° | 113.1 | 114.7 | 114.3 | 112.7 | 111.8 |
| 80° | 73.9 | 75.2 | 76.1 | 74.5 | 74.5 |
| 82.5° | 44.6 | 45.9 | 45.6 | 46.2 | 45.0 |
| 85° | 22.2 | 23.1 | 23.1 | 22.8 | 22.5 |
| 87.5° | 8.0 | 8.4 | 8.0 | 8.4 | 8.0 |
| 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)