

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: P506626

Luminaire Tested: **24PD-40-PL1-L940**

Issue Date: 3/26/2021



Test Information

Test Method: LM-79-08
Report Number: P506626
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-40-PL1-L940
Description: 4000 LUMEN, 2X4 PERCEIVE LED LUMINAIRE WITH LEAVES LENS AND 90 CRI,
4000K LEDS
Light Source: -
Ballast/Driver: -

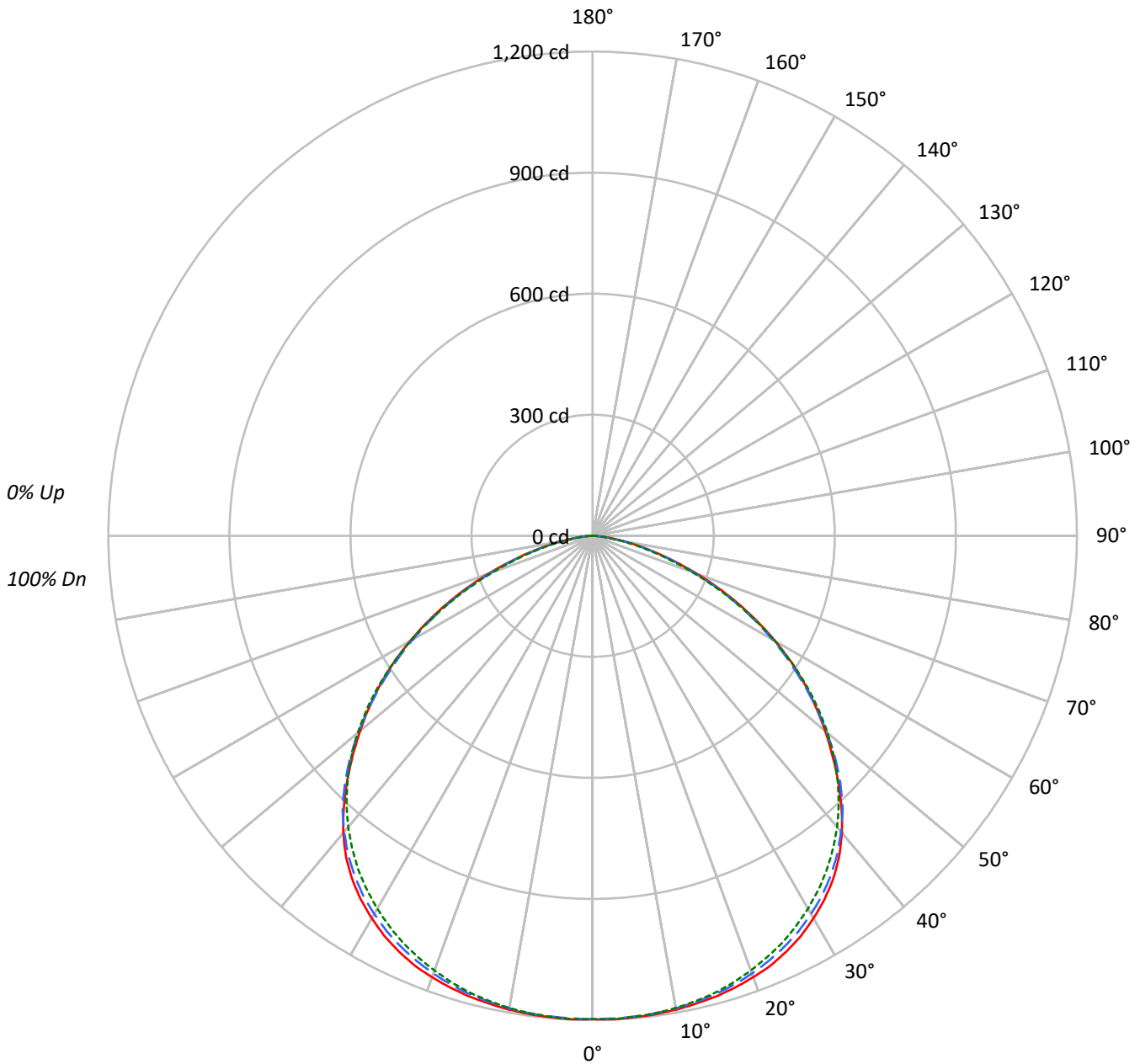
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3436.8 lumens
Efficiency: N/A
Efficacy: 116.9 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): 29.4
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

TEST NUMBER: P506626
CATALOG NUMBER: 24PD-40-PL1-L940

Luminous Intensity Polar Plot





TEST NUMBER: P506626

CATALOG NUMBER: 24PD-40-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° | 1612 | 1612 | 1612 |
| 5° | 1618 | 1615 | 1616 |
| 10° | 1629 | 1625 | 1623 |
| 15° | 1646 | 1638 | 1633 |
| 20° | 1667 | 1653 | 1642 |
| 25° | 1688 | 1669 | 1651 |
| 30° | 1701 | 1681 | 1658 |
| 35° | 1706 | 1689 | 1661 |
| 40° | 1688 | 1682 | 1655 |
| 45° | 1637 | 1652 | 1634 |
| 50° | 1573 | 1585 | 1590 |
| 55° | 1505 | 1494 | 1516 |
| 60° | 1408 | 1385 | 1403 |
| 65° | 1267 | 1242 | 1241 |
| 70° | 1079 | 1054 | 1030 |
| 75° | 849 | 831 | 796 |
| 80° | 607 | 590 | 556 |
| 85° | 360 | 355 | 329 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 114.0 | 3.3 |
| 10°-20° | 332.5 | 9.7 |
| 20°-30° | 518.4 | 15.1 |
| 30°-40° | 641.4 | 18.7 |
| 40°-50° | 665.0 | 19.3 |
| 50°-60° | 572.5 | 16.7 |
| 60°-70° | 388.5 | 11.3 |
| 70°-80° | 173.3 | 5.0 |
| 80°-90° | 31.2 | 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° | 964.9 | 28.1 |
| 0°-40° | 1606.4 | 46.7 |
| 0°-60° | 2843.9 | 82.7 |
| 0°-90° | 3436.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3436.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1198 | 1198 | 1198 | 1198 | 1198 | |
| 5° | 1198 | 1196 | 1196 | 1196 | 1196 | 114 |
| 15° | 1182 | 1179 | 1176 | 1173 | 1172 | 334 |
| 25° | 1137 | 1132 | 1124 | 1116 | 1112 | 524 |
| 35° | 1039 | 1036 | 1028 | 1017 | 1011 | 648 |
| 45° | 860 | 864 | 868 | 865 | 858 | 663 |
| 55° | 642 | 642 | 637 | 644 | 646 | 572 |
| 65° | 398 | 400 | 390 | 386 | 390 | 394 |
| 75° | 163 | 165 | 160 | 156 | 153 | 177 |
| 85° | 23 | 24 | 23 | 23 | 21 | 32 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P506626

CATALOG NUMBER: 24PD-40-PL1-L940

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1198.1 | 1198.1 | 1198.1 | 1198.1 | 1198.1 |
| 2.5° | 1199.7 | 1197.1 | 1197.4 | 1197.7 | 1199.0 |
| 5° | 1198.1 | 1196.4 | 1196.1 | 1196.1 | 1196.4 |
| 7.5° | 1196.1 | 1194.1 | 1193.8 | 1193.5 | 1193.5 |
| 10° | 1192.5 | 1190.5 | 1189.2 | 1188.5 | 1188.2 |
| 12.5° | 1187.6 | 1185.3 | 1183.6 | 1182.3 | 1181.3 |
| 15° | 1182.0 | 1178.7 | 1176.1 | 1173.4 | 1172.5 |
| 17.5° | 1174.1 | 1171.2 | 1166.6 | 1162.3 | 1160.7 |
| 20° | 1164.3 | 1161.3 | 1154.7 | 1148.8 | 1146.5 |
| 22.5° | 1152.8 | 1148.5 | 1140.3 | 1133.8 | 1130.5 |
| 25° | 1136.7 | 1132.4 | 1123.9 | 1115.7 | 1112.4 |
| 27.5° | 1118.0 | 1114.1 | 1104.9 | 1095.0 | 1091.1 |
| 30° | 1094.7 | 1092.1 | 1082.2 | 1071.4 | 1067.2 |
| 32.5° | 1068.8 | 1066.2 | 1057.6 | 1045.5 | 1040.6 |
| 35° | 1038.9 | 1036.0 | 1028.4 | 1017.3 | 1011.4 |
| 37.5° | 1003.5 | 1002.5 | 995.3 | 983.8 | 978.3 |
| 40° | 961.2 | 963.2 | 957.6 | 947.7 | 942.2 |
| 42.5° | 913.0 | 917.2 | 917.2 | 908.1 | 902.5 |
| 45° | 860.2 | 864.1 | 868.0 | 864.7 | 858.5 |
| 47.5° | 806.0 | 810.3 | 814.9 | 816.2 | 810.9 |
| 50° | 751.6 | 754.2 | 757.1 | 763.1 | 759.8 |
| 52.5° | 697.4 | 698.4 | 697.4 | 705.3 | 704.7 |
| 55° | 641.7 | 642.0 | 636.8 | 644.0 | 646.3 |
| 57.5° | 583.6 | 584.6 | 576.1 | 580.0 | 584.9 |
| 60° | 523.2 | 524.2 | 514.7 | 515.4 | 521.3 |
| 62.5° | 460.9 | 462.2 | 452.7 | 450.4 | 455.7 |
| 65° | 397.9 | 399.6 | 390.1 | 385.8 | 389.7 |
| 67.5° | 335.3 | 337.2 | 328.4 | 323.1 | 324.1 |
| 70° | 274.3 | 275.9 | 268.0 | 263.1 | 261.8 |
| 72.5° | 216.2 | 217.8 | 211.6 | 206.7 | 204.4 |
| 75° | 163.4 | 164.7 | 159.8 | 156.2 | 153.2 |
| 77.5° | 117.4 | 118.4 | 114.5 | 111.9 | 108.9 |
| 80° | 78.4 | 78.7 | 76.1 | 74.5 | 71.8 |
| 82.5° | 46.9 | 47.2 | 45.6 | 44.9 | 43.0 |
| 85° | 23.3 | 23.6 | 23.0 | 23.0 | 21.3 |
| 87.5° | 8.2 | 7.9 | 8.2 | 8.2 | 7.2 |
| 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)