

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: P412851

Luminaire Tested: **24PD-40-PP3-L850**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412851
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-40-PP3-L850
Description: 4000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

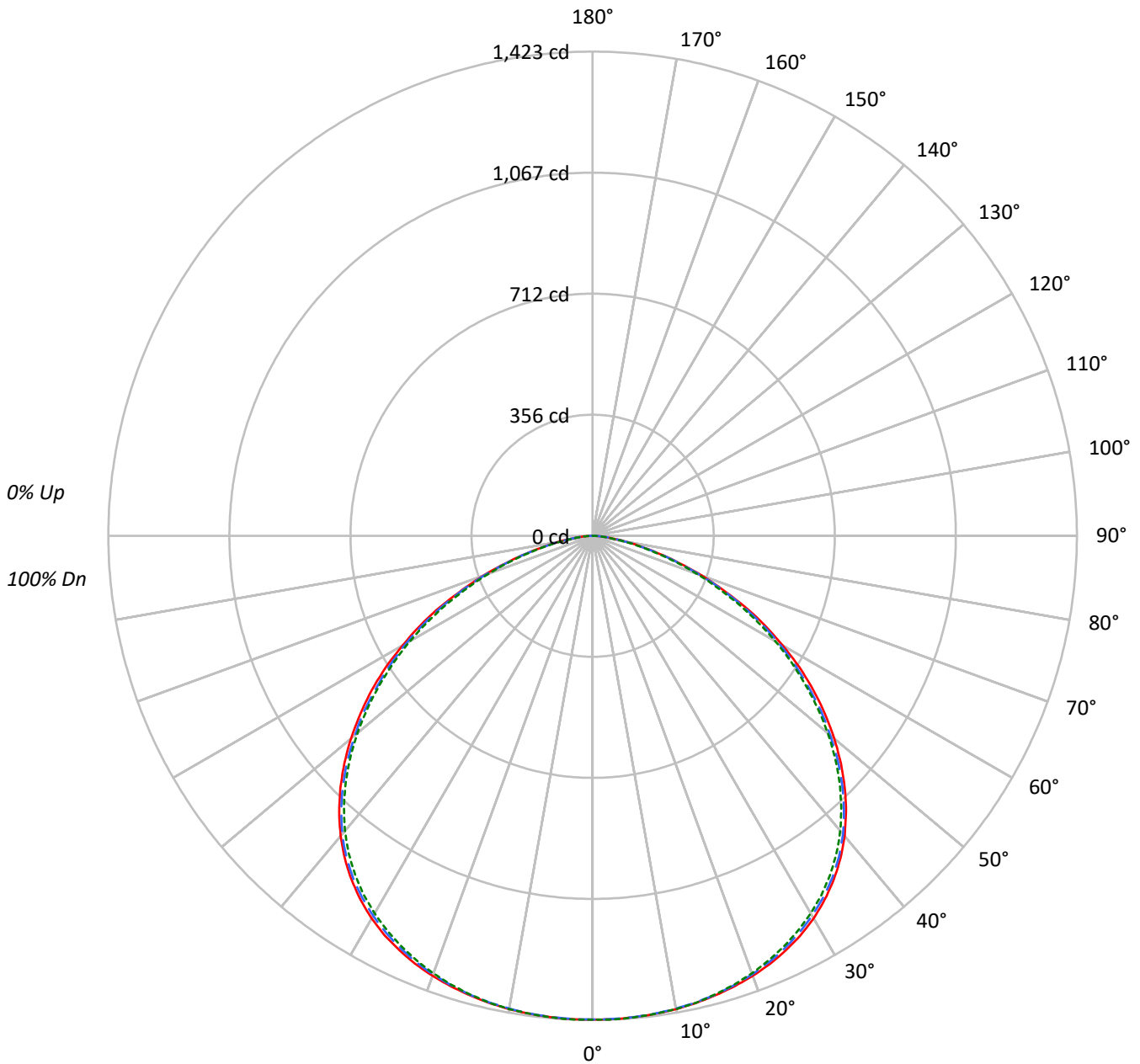
Lumens per Lamp: N/A
Luminaire Lumens: 4137.0 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P412851

CATALOG NUMBER: 24PD-40-PP3-L850

Luminous Intensity Polar Plot





TEST NUMBER: P412851

CATALOG NUMBER: 24PD-40-PP3-L850

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1913 | 1913 | 1913 |
| 5° | 1918 | 1917 | 1919 |
| 10° | 1930 | 1928 | 1930 |
| 15° | 1947 | 1944 | 1943 |
| 20° | 1971 | 1964 | 1959 |
| 25° | 1995 | 1985 | 1976 |
| 30° | 2018 | 2003 | 1991 |
| 35° | 2028 | 2016 | 1998 |
| 40° | 2023 | 2011 | 1988 |
| 45° | 1994 | 1975 | 1952 |
| 50° | 1939 | 1908 | 1888 |
| 55° | 1859 | 1814 | 1791 |
| 60° | 1732 | 1702 | 1668 |
| 65° | 1570 | 1539 | 1494 |
| 70° | 1340 | 1316 | 1273 |
| 75° | 1046 | 1036 | 987 |
| 80° | 772 | 740 | 698 |
| 85° | 466 | 466 | 434 |



TEST NUMBER: P412851

CATALOG NUMBER: 24PD-40-PP3-L850

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 135.3 | 3.3 |
| 10°-20° | 394.7 | 9.5 |
| 20°-30° | 616.9 | 14.9 |
| 30°-40° | 766.7 | 18.5 |
| 40°-50° | 798.9 | 19.3 |
| 50°-60° | 693.2 | 16.8 |
| 60°-70° | 476.7 | 11.5 |
| 70°-80° | 215.1 | 5.2 |
| 80°-90° | 39.4 | 1.0 |
| 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° | 1146.9 | 27.7 |
| 0°-40° | 1913.7 | 46.3 |
| 0°-60° | 3405.8 | 82.3 |
| 0°-90° | 4137.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4137.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1422 | 1422 | 1422 | 1422 | 1422 | |
| 5° | 1420 | 1420 | 1420 | 1418 | 1420 | 135 |
| 15° | 1398 | 1398 | 1396 | 1394 | 1395 | 395 |
| 25° | 1344 | 1344 | 1337 | 1332 | 1331 | 620 |
| 35° | 1235 | 1235 | 1228 | 1220 | 1216 | 772 |
| 45° | 1048 | 1048 | 1038 | 1030 | 1026 | 807 |
| 55° | 792 | 788 | 774 | 764 | 764 | 706 |
| 65° | 493 | 491 | 483 | 472 | 469 | 487 |
| 75° | 201 | 202 | 199 | 194 | 190 | 219 |
| 85° | 30 | 30 | 30 | 30 | 28 | 41 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412851

CATALOG NUMBER: 24PD-40-PP3-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1421.8 | 1421.8 | 1421.8 | 1421.8 | 1421.8 |
| 2.5° | 1422.2 | 1422.2 | 1421.4 | 1420.1 | 1423.0 |
| 5° | 1420.1 | 1420.5 | 1419.7 | 1418.5 | 1420.5 |
| 7.5° | 1417.2 | 1417.6 | 1416.4 | 1415.2 | 1416.8 |
| 10° | 1412.7 | 1412.3 | 1411.0 | 1410.2 | 1412.3 |
| 12.5° | 1406.1 | 1405.6 | 1404.4 | 1403.6 | 1405.2 |
| 15° | 1397.8 | 1397.8 | 1395.7 | 1394.5 | 1394.9 |
| 17.5° | 1387.9 | 1387.9 | 1385.0 | 1382.1 | 1382.9 |
| 20° | 1376.3 | 1375.9 | 1371.7 | 1368.8 | 1368.4 |
| 22.5° | 1361.8 | 1361.8 | 1356.0 | 1352.3 | 1351.1 |
| 25° | 1344.0 | 1343.6 | 1337.0 | 1331.6 | 1330.8 |
| 27.5° | 1323.8 | 1323.0 | 1315.1 | 1309.7 | 1307.7 |
| 30° | 1298.6 | 1297.7 | 1289.5 | 1283.7 | 1281.2 |
| 32.5° | 1268.8 | 1270.0 | 1260.5 | 1253.9 | 1251.4 |
| 35° | 1234.9 | 1234.9 | 1227.5 | 1220.4 | 1216.3 |
| 37.5° | 1196.0 | 1196.0 | 1189.0 | 1182.0 | 1177.0 |
| 40° | 1151.8 | 1152.2 | 1144.8 | 1136.1 | 1132.0 |
| 42.5° | 1102.2 | 1103.0 | 1093.1 | 1086.1 | 1081.5 |
| 45° | 1048.0 | 1048.4 | 1037.7 | 1029.8 | 1026.1 |
| 47.5° | 989.3 | 988.5 | 976.5 | 969.9 | 966.2 |
| 50° | 926.5 | 924.8 | 911.6 | 905.4 | 902.1 |
| 52.5° | 860.7 | 857.4 | 845.9 | 836.8 | 833.9 |
| 55° | 792.5 | 788.0 | 773.5 | 764.4 | 763.6 |
| 57.5° | 721.4 | 716.1 | 704.1 | 695.4 | 692.1 |
| 60° | 643.7 | 642.5 | 632.5 | 622.2 | 619.7 |
| 62.5° | 570.9 | 567.2 | 558.5 | 546.1 | 544.9 |
| 65° | 493.2 | 491.1 | 483.3 | 471.7 | 469.2 |
| 67.5° | 413.0 | 415.1 | 408.5 | 398.1 | 394.8 |
| 70° | 340.7 | 341.9 | 334.5 | 325.0 | 323.7 |
| 72.5° | 267.9 | 270.0 | 263.8 | 257.6 | 256.3 |
| 75° | 201.3 | 202.2 | 199.3 | 193.9 | 189.8 |
| 77.5° | 143.0 | 145.9 | 142.6 | 138.9 | 135.6 |
| 80° | 99.6 | 95.1 | 95.5 | 93.8 | 90.1 |
| 82.5° | 59.9 | 57.9 | 57.5 | 55.8 | 54.2 |
| 85° | 30.2 | 29.8 | 30.2 | 29.8 | 28.1 |
| 87.5° | 9.9 | 10.7 | 11.2 | 11.2 | 10.3 |
| 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)