

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: P413182

Luminaire Tested: **24PD-35-PC3-L835**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413182
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-35-PC3-L835
Description: 3500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

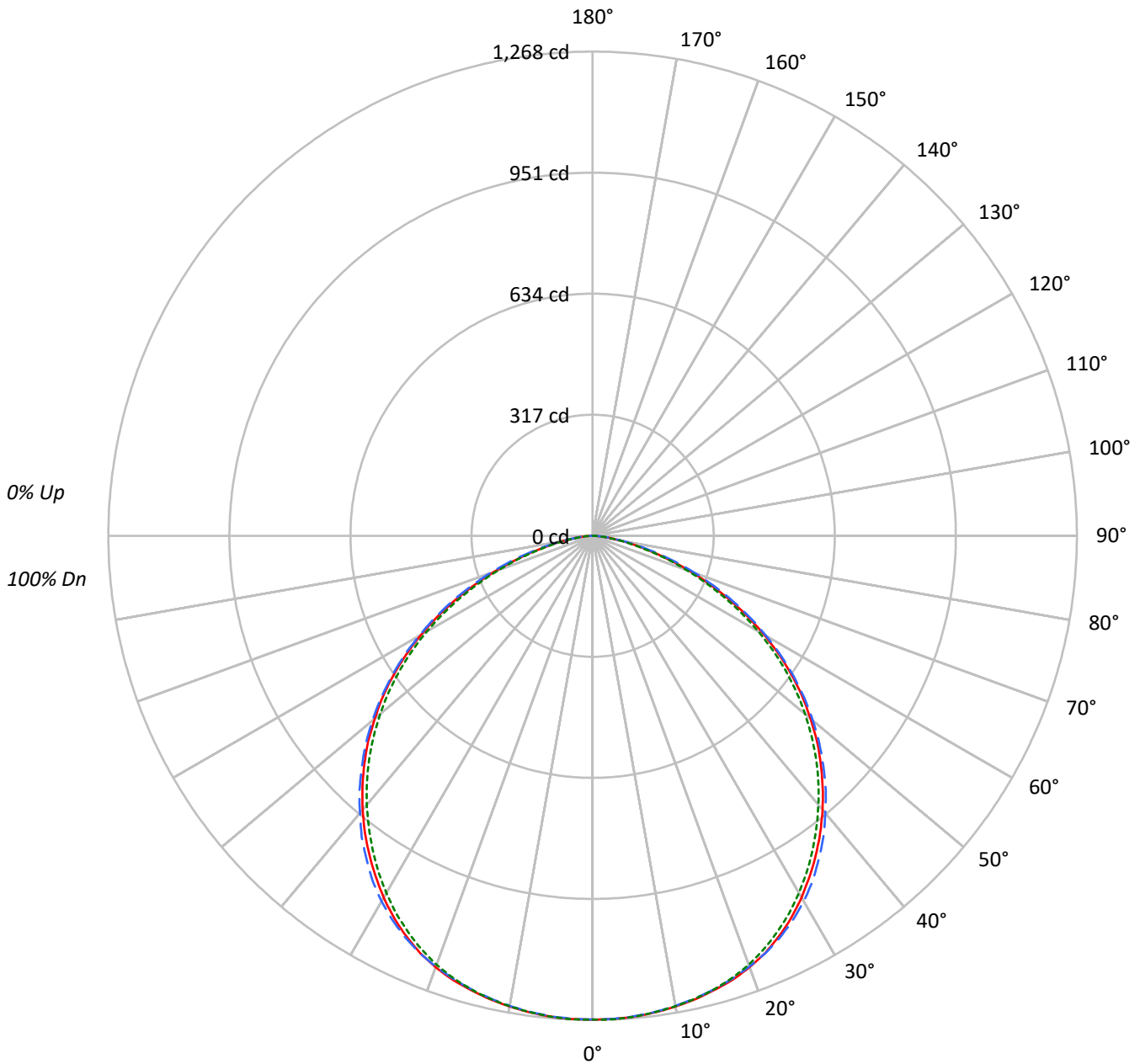
Lumens per Lamp: N/A
Luminaire Lumens: 3463.0 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | | | | | | | | | | | | | | | |
| 4 | 84 | 72 | 63 | 57 | 81 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | | | | | | | | | | | | | | | |
| 5 | 77 | 64 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | 59 | 53 | 48 | 57 | 52 | 47 | 45 | | | | | | | | | | | | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 42 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | | | | | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 47 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1705 | 1705 | 1705 |
| 5° | 1707 | 1706 | 1707 |
| 10° | 1710 | 1708 | 1709 |
| 15° | 1716 | 1712 | 1713 |
| 20° | 1722 | 1719 | 1711 |
| 25° | 1717 | 1723 | 1699 |
| 30° | 1700 | 1718 | 1678 |
| 35° | 1675 | 1696 | 1649 |
| 40° | 1645 | 1665 | 1616 |
| 45° | 1608 | 1625 | 1575 |
| 50° | 1558 | 1576 | 1520 |
| 55° | 1494 | 1507 | 1450 |
| 60° | 1395 | 1411 | 1347 |
| 65° | 1257 | 1288 | 1208 |
| 70° | 1067 | 1114 | 1024 |
| 75° | 827 | 887 | 788 |
| 80° | 614 | 642 | 557 |
| 85° | 380 | 406 | 352 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 120.2 | 3.5 |
| 10°-20° | 347.4 | 10.0 |
| 20°-30° | 532.1 | 15.4 |
| 30°-40° | 640.1 | 18.5 |
| 40°-50° | 652.7 | 18.8 |
| 50°-60° | 565.9 | 16.3 |
| 60°-70° | 392.3 | 11.3 |
| 70°-80° | 179.2 | 5.2 |
| 80°-90° | 33.1 | 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° | 999.7 | 28.9 |
| 0°-40° | 1639.8 | 47.4 |
| 0°-60° | 2858.4 | 82.5 |
| 0°-90° | 3463.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3463.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1267 | 1267 | 1267 | 1267 | 1267 | |
| 5° | 1264 | 1264 | 1263 | 1262 | 1264 | 120 |
| 15° | 1232 | 1232 | 1229 | 1228 | 1230 | 348 |
| 25° | 1156 | 1160 | 1161 | 1150 | 1144 | 532 |
| 35° | 1020 | 1030 | 1032 | 1019 | 1004 | 637 |
| 45° | 845 | 856 | 854 | 843 | 828 | 651 |
| 55° | 637 | 641 | 643 | 627 | 618 | 568 |
| 65° | 395 | 403 | 405 | 391 | 379 | 390 |
| 75° | 159 | 168 | 171 | 165 | 152 | 174 |
| 85° | 25 | 25 | 26 | 25 | 23 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1266.9 | 1266.9 | 1266.9 | 1266.9 | 1266.9 |
| 2.5° | 1266.9 | 1266.9 | 1266.2 | 1265.5 | 1267.6 |
| 5° | 1263.8 | 1263.8 | 1263.1 | 1262.4 | 1264.1 |
| 7.5° | 1258.9 | 1258.5 | 1257.8 | 1257.1 | 1258.2 |
| 10° | 1251.9 | 1251.5 | 1250.1 | 1249.7 | 1251.1 |
| 12.5° | 1243.1 | 1242.7 | 1240.6 | 1240.6 | 1241.7 |
| 15° | 1231.8 | 1231.5 | 1229.4 | 1228.3 | 1229.7 |
| 17.5° | 1219.2 | 1218.9 | 1216.4 | 1213.6 | 1214.3 |
| 20° | 1202.4 | 1202.4 | 1200.6 | 1196.4 | 1195.3 |
| 22.5° | 1182.0 | 1183.1 | 1183.1 | 1175.0 | 1171.8 |
| 25° | 1156.4 | 1159.6 | 1160.6 | 1150.4 | 1144.5 |
| 27.5° | 1127.3 | 1132.2 | 1135.0 | 1122.0 | 1114.3 |
| 30° | 1093.9 | 1102.0 | 1105.5 | 1091.5 | 1080.2 |
| 32.5° | 1057.4 | 1067.6 | 1071.8 | 1058.1 | 1043.7 |
| 35° | 1019.5 | 1030.4 | 1032.5 | 1019.2 | 1004.1 |
| 37.5° | 979.2 | 990.4 | 993.2 | 981.3 | 962.7 |
| 40° | 936.7 | 947.9 | 947.9 | 938.1 | 919.8 |
| 42.5° | 891.8 | 903.7 | 903.4 | 891.4 | 874.9 |
| 45° | 845.1 | 855.6 | 854.2 | 842.6 | 827.5 |
| 47.5° | 797.0 | 803.7 | 805.4 | 791.8 | 777.4 |
| 50° | 744.4 | 751.0 | 752.8 | 737.4 | 726.1 |
| 52.5° | 692.4 | 696.6 | 699.1 | 681.2 | 673.1 |
| 55° | 637.0 | 640.8 | 642.6 | 626.8 | 618.0 |
| 57.5° | 578.4 | 583.3 | 585.4 | 569.6 | 559.8 |
| 60° | 518.4 | 523.6 | 524.3 | 509.6 | 500.5 |
| 62.5° | 457.3 | 464.3 | 465.7 | 451.0 | 440.1 |
| 65° | 394.8 | 403.2 | 404.6 | 391.0 | 379.4 |
| 67.5° | 332.4 | 343.6 | 343.9 | 332.7 | 319.0 |
| 70° | 271.3 | 283.6 | 283.2 | 273.7 | 260.4 |
| 72.5° | 213.0 | 224.3 | 226.7 | 217.9 | 205.0 |
| 75° | 159.0 | 167.8 | 170.6 | 164.9 | 151.6 |
| 77.5° | 113.0 | 121.1 | 123.5 | 118.3 | 108.4 |
| 80° | 79.3 | 79.7 | 82.8 | 78.6 | 71.9 |
| 82.5° | 49.1 | 48.4 | 49.5 | 47.7 | 43.9 |
| 85° | 24.6 | 25.3 | 26.3 | 24.9 | 22.8 |
| 87.5° | 8.4 | 8.8 | 9.5 | 9.5 | 8.4 |
| 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)