

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: P413204

Luminaire Tested: **24PD-45-PC3-L930**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413204
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-45-PC3-L930
Description: 4500 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

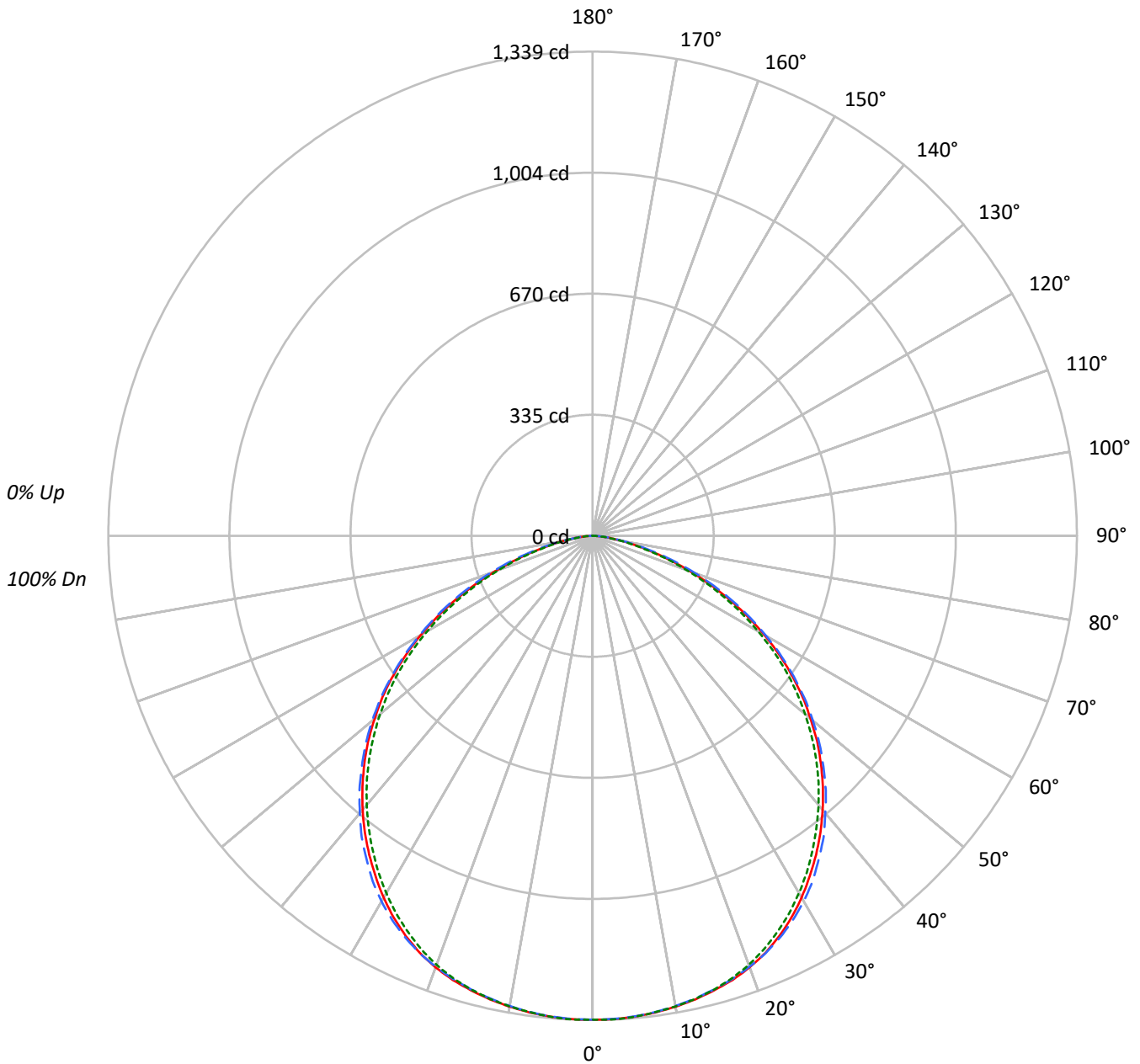
Lumens per Lamp: N/A
Luminaire Lumens: 3658.0 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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° | 1801 | 1801 | 1801 |
| 5° | 1803 | 1802 | 1803 |
| 10° | 1807 | 1804 | 1806 |
| 15° | 1813 | 1809 | 1809 |
| 20° | 1819 | 1816 | 1808 |
| 25° | 1813 | 1820 | 1795 |
| 30° | 1795 | 1814 | 1773 |
| 35° | 1769 | 1791 | 1742 |
| 40° | 1738 | 1759 | 1707 |
| 45° | 1699 | 1717 | 1663 |
| 50° | 1646 | 1665 | 1605 |
| 55° | 1578 | 1592 | 1531 |
| 60° | 1473 | 1490 | 1422 |
| 65° | 1328 | 1361 | 1276 |
| 70° | 1127 | 1177 | 1082 |
| 75° | 873 | 937 | 832 |
| 80° | 649 | 678 | 589 |
| 85° | 401 | 429 | 372 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 127.0 | 3.5 |
| 10°-20° | 367.0 | 10.0 |
| 20°-30° | 562.0 | 15.4 |
| 30°-40° | 676.1 | 18.5 |
| 40°-50° | 689.5 | 18.8 |
| 50°-60° | 597.7 | 16.3 |
| 60°-70° | 414.4 | 11.3 |
| 70°-80° | 189.3 | 5.2 |
| 80°-90° | 35.0 | 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° | 1056.0 | 28.9 |
| 0°-40° | 1732.2 | 47.4 |
| 0°-60° | 3019.4 | 82.5 |
| 0°-90° | 3658.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3658.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1338 | 1338 | 1338 | 1338 | 1338 | |
| 5° | 1335 | 1335 | 1334 | 1334 | 1335 | 127 |
| 15° | 1301 | 1301 | 1299 | 1298 | 1299 | 368 |
| 25° | 1222 | 1225 | 1226 | 1215 | 1209 | 562 |
| 35° | 1077 | 1088 | 1091 | 1077 | 1061 | 673 |
| 45° | 893 | 904 | 902 | 890 | 874 | 688 |
| 55° | 673 | 677 | 679 | 662 | 653 | 599 |
| 65° | 417 | 426 | 427 | 413 | 401 | 412 |
| 75° | 168 | 177 | 180 | 174 | 160 | 184 |
| 85° | 26 | 27 | 28 | 26 | 24 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 24PD-45-PC3-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1338.3 | 1338.3 | 1338.3 | 1338.3 | <i>1338.3</i> |
| 2.5° | <i>1338.3</i> | <i>1338.3</i> | <i>1337.5</i> | <i>1336.8</i> | <i>1339.0</i> |
| 5° | 1334.9 | 1334.9 | 1334.2 | 1333.5 | <i>1335.3</i> |
| 7.5° | 1329.8 | 1329.4 | 1328.6 | 1327.9 | <i>1329.0</i> |
| 10° | 1322.3 | 1322.0 | 1320.5 | 1320.1 | <i>1321.6</i> |
| 12.5° | 1313.1 | 1312.7 | 1310.5 | 1310.5 | <i>1311.6</i> |
| 15° | 1301.2 | 1300.8 | 1298.6 | 1297.5 | <i>1299.0</i> |
| 17.5° | 1287.9 | 1287.5 | 1284.9 | 1281.9 | <i>1282.7</i> |
| 20° | 1270.1 | 1270.1 | 1268.2 | 1263.8 | <i>1262.7</i> |
| 22.5° | 1248.6 | 1249.7 | 1249.7 | 1241.2 | <i>1237.8</i> |
| 25° | 1221.5 | 1224.8 | 1226.0 | 1215.2 | <i>1208.9</i> |
| 27.5° | 1190.7 | 1195.9 | 1198.9 | 1185.2 | <i>1177.0</i> |
| 30° | 1155.5 | 1164.0 | 1167.8 | 1152.9 | <i>1141.1</i> |
| 32.5° | 1117.0 | 1127.7 | 1132.2 | 1117.7 | <i>1102.5</i> |
| 35° | 1076.9 | 1088.4 | 1090.6 | 1076.6 | <i>1060.6</i> |
| 37.5° | 1034.3 | 1046.2 | 1049.1 | 1036.5 | <i>1016.9</i> |
| 40° | 989.4 | 1001.3 | 1001.3 | 990.9 | <i>971.6</i> |
| 42.5° | 942.0 | 954.6 | 954.2 | 941.6 | <i>924.2</i> |
| 45° | 892.7 | 903.8 | 902.3 | 890.1 | <i>874.1</i> |
| 47.5° | 841.9 | 848.9 | 850.8 | 836.3 | <i>821.1</i> |
| 50° | 786.3 | 793.3 | 795.2 | 778.9 | <i>767.0</i> |
| 52.5° | 731.4 | 735.9 | 738.5 | 719.6 | <i>711.0</i> |
| 55° | 672.8 | 676.9 | 678.8 | 662.1 | <i>652.8</i> |
| 57.5° | 610.9 | 616.1 | 618.4 | 601.7 | <i>591.3</i> |
| 60° | 547.5 | 553.1 | 553.8 | 538.3 | <i>528.6</i> |
| 62.5° | 483.0 | 490.5 | 491.9 | 476.4 | <i>464.9</i> |
| 65° | 417.1 | 426.0 | 427.4 | 413.0 | <i>400.7</i> |
| 67.5° | 351.1 | 362.9 | 363.3 | 351.4 | <i>337.0</i> |
| 70° | 286.6 | 299.5 | 299.2 | 289.2 | <i>275.1</i> |
| 72.5° | 225.0 | 236.9 | 239.5 | 230.2 | <i>216.5</i> |
| 75° | 167.9 | 177.2 | 180.2 | 174.2 | <i>160.1</i> |
| 77.5° | 119.4 | 127.9 | 130.5 | 124.9 | <i>114.6</i> |
| 80° | 83.8 | 84.2 | 87.5 | 83.0 | <i>76.0</i> |
| 82.5° | 51.9 | 51.2 | 52.3 | 50.4 | <i>46.3</i> |
| 85° | 26.0 | 26.7 | 27.8 | 26.3 | <i>24.1</i> |
| 87.5° | 8.9 | 9.3 | 10.0 | 10.0 | <i>8.9</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)