

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: P738205

Luminaire Tested: **22PT-45-PP3-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738205
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P412714)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PP3-L940
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND PRISM LENS

Light Source: -
Ballast/Driver: -

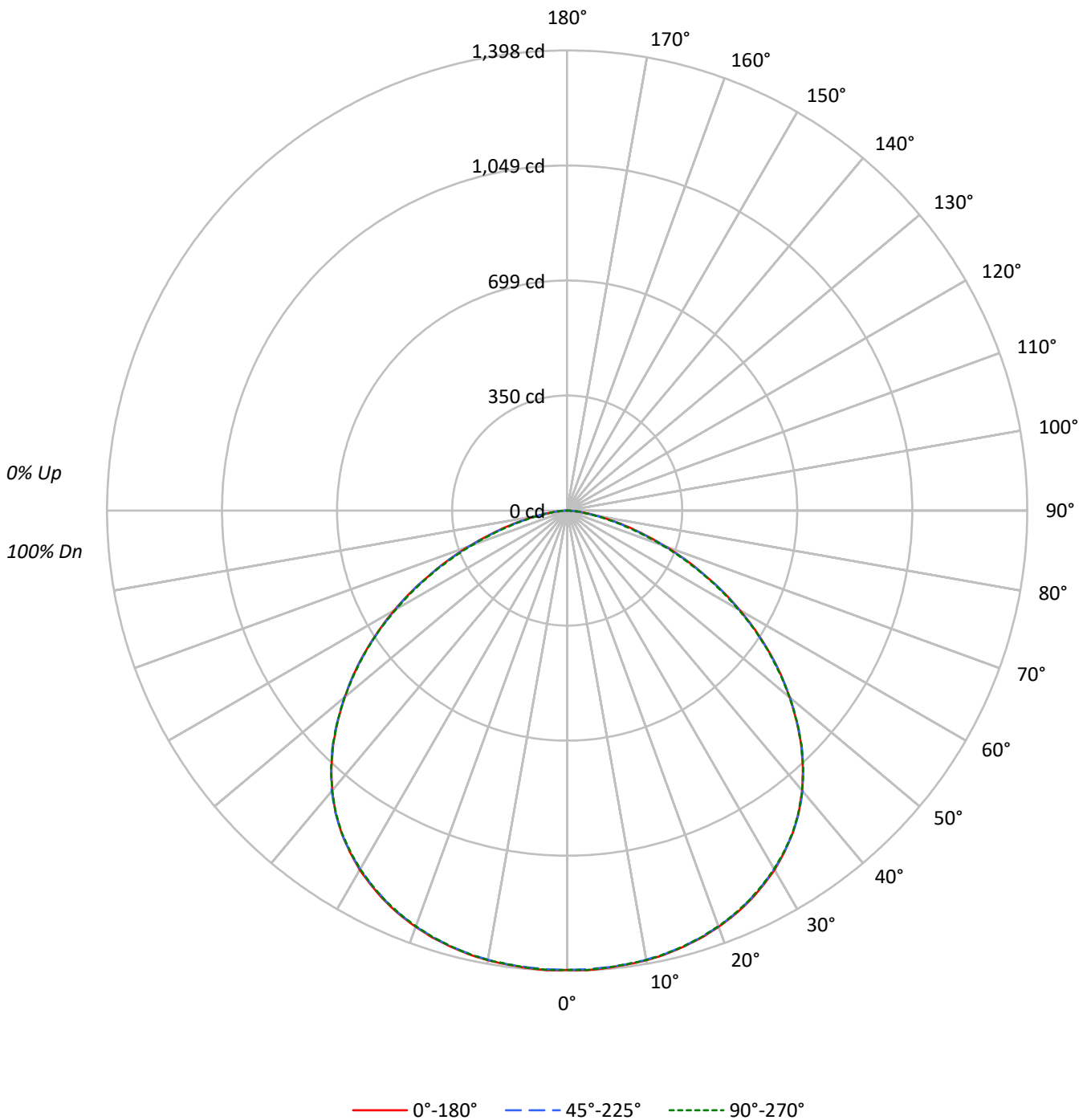
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4004.0 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.33 / 1.43
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 35.3
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





TEST NUMBER: P738205

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|-----|-----|-----|--|-----|-----|-----|-----|
| RF | 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 | 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 | 87 | 81 | 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 | 70 | 62 | 56 | 68 | 61 | 55 | | 66 | 60 | 55 | | 64 | 58 | 54 | 52 |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 48 | | 59 | 53 | 47 | | 57 | 51 | 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 | 29 | 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° | 4089 | 4089 | 4089 |
| 5° | 4102 | 4097 | 4099 |
| 10° | 4127 | 4122 | 4125 |
| 15° | 4160 | 4155 | 4155 |
| 20° | 4196 | 4192 | 4190 |
| 25° | 4233 | 4226 | 4226 |
| 30° | 4263 | 4255 | 4253 |
| 35° | 4275 | 4275 | 4270 |
| 40° | 4247 | 4256 | 4247 |
| 45° | 4163 | 4174 | 4169 |
| 50° | 4023 | 4029 | 4019 |
| 55° | 3830 | 3821 | 3813 |
| 60° | 3555 | 3547 | 3520 |
| 65° | 3175 | 3173 | 3137 |
| 70° | 2715 | 2698 | 2639 |
| 75° | 2163 | 2099 | 2035 |
| 80° | 1541 | 1510 | 1431 |
| 85° | 1002 | 1002 | 972 |



TEST NUMBER: P738205

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 132.7 | 3.3 |
| 10°-20° | 387.1 | 9.7 |
| 20°-30° | 602.8 | 15.1 |
| 30°-40° | 746.1 | 18.6 |
| 40°-50° | 773.6 | 19.3 |
| 50°-60° | 666.8 | 16.7 |
| 60°-70° | 453.3 | 11.3 |
| 70°-80° | 202.9 | 5.1 |
| 80°-90° | 38.6 | 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° | 1122.7 | 28.0 |
| 0°-40° | 1868.7 | 46.7 |
| 0°-60° | 3309.2 | 82.6 |
| 0°-90° | 4004.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4004.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1396 | 1396 | 1396 | 1396 | 1396 | |
| 5° | 1395 | 1392 | 1393 | 1392 | 1394 | 133 |
| 15° | 1371 | 1369 | 1370 | 1369 | 1370 | 388 |
| 25° | 1309 | 1308 | 1307 | 1306 | 1307 | 604 |
| 35° | 1195 | 1194 | 1195 | 1193 | 1194 | 747 |
| 45° | 1005 | 1004 | 1007 | 1005 | 1006 | 773 |
| 55° | 750 | 747 | 748 | 746 | 746 | 668 |
| 65° | 458 | 462 | 458 | 456 | 452 | 455 |
| 75° | 191 | 192 | 185 | 184 | 180 | 206 |
| 85° | 30 | 31 | 30 | 29 | 29 | 39 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1395.5 | 1395.5 | 1395.5 | 1395.5 | 1395.5 |
| 2.5° | 1397.5 | 1394.6 | 1394.6 | 1395.1 | 1396.6 |
| 5° | 1394.6 | 1391.9 | 1392.8 | 1392.3 | 1393.7 |
| 7.5° | 1391.0 | 1388.6 | 1390.0 | 1389.0 | 1390.0 |
| 10° | 1387.2 | 1384.8 | 1385.3 | 1384.8 | 1386.3 |
| 12.5° | 1380.6 | 1377.9 | 1378.8 | 1378.8 | 1379.3 |
| 15° | 1371.4 | 1369.0 | 1369.9 | 1369.0 | 1369.9 |
| 17.5° | 1360.1 | 1357.4 | 1357.9 | 1357.4 | 1358.3 |
| 20° | 1345.7 | 1343.9 | 1344.3 | 1343.4 | 1343.9 |
| 22.5° | 1329.4 | 1327.1 | 1327.6 | 1326.7 | 1326.7 |
| 25° | 1309.4 | 1307.5 | 1307.1 | 1306.5 | 1307.1 |
| 27.5° | 1286.0 | 1283.8 | 1283.8 | 1283.3 | 1283.3 |
| 30° | 1260.0 | 1257.7 | 1257.7 | 1257.1 | 1257.1 |
| 32.5° | 1229.2 | 1228.3 | 1228.8 | 1227.9 | 1227.3 |
| 35° | 1195.2 | 1193.8 | 1195.2 | 1193.4 | 1193.8 |
| 37.5° | 1155.6 | 1153.8 | 1156.5 | 1154.7 | 1155.1 |
| 40° | 1110.4 | 1109.5 | 1112.7 | 1111.3 | 1110.4 |
| 42.5° | 1060.1 | 1060.1 | 1061.5 | 1061.9 | 1061.0 |
| 45° | 1004.7 | 1003.8 | 1007.4 | 1005.1 | 1006.0 |
| 47.5° | 944.9 | 943.6 | 946.4 | 945.9 | 945.5 |
| 50° | 882.6 | 881.6 | 883.9 | 881.6 | 881.6 |
| 52.5° | 817.8 | 817.3 | 817.8 | 815.4 | 814.9 |
| 55° | 749.7 | 747.0 | 747.9 | 746.4 | 746.4 |
| 57.5° | 678.9 | 675.6 | 676.1 | 675.6 | 676.1 |
| 60° | 606.7 | 605.7 | 605.3 | 603.0 | 600.6 |
| 62.5° | 532.7 | 533.6 | 533.0 | 529.8 | 527.4 |
| 65° | 458.0 | 461.8 | 457.6 | 456.2 | 452.4 |
| 67.5° | 387.7 | 389.0 | 386.3 | 383.0 | 378.8 |
| 70° | 316.9 | 319.6 | 314.9 | 311.7 | 308.0 |
| 72.5° | 249.3 | 251.2 | 247.0 | 245.2 | 240.5 |
| 75° | 191.1 | 191.6 | 185.4 | 184.5 | 179.8 |
| 77.5° | 136.0 | 137.9 | 133.3 | 133.3 | 128.6 |
| 80° | 91.3 | 94.6 | 89.5 | 88.1 | 84.8 |
| 82.5° | 57.4 | 57.8 | 56.3 | 55.0 | 53.6 |
| 85° | 29.8 | 30.7 | 29.8 | 28.9 | 28.9 |
| 87.5° | 11.2 | 11.6 | 11.2 | 10.7 | 11.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)