

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: P738213

Luminaire Tested: **22PT-45-PR1-L940**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738213
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P506224)
Test Lab: INNOVATION CENTER
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PT-45-PR1-L940
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 4000K, 90 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

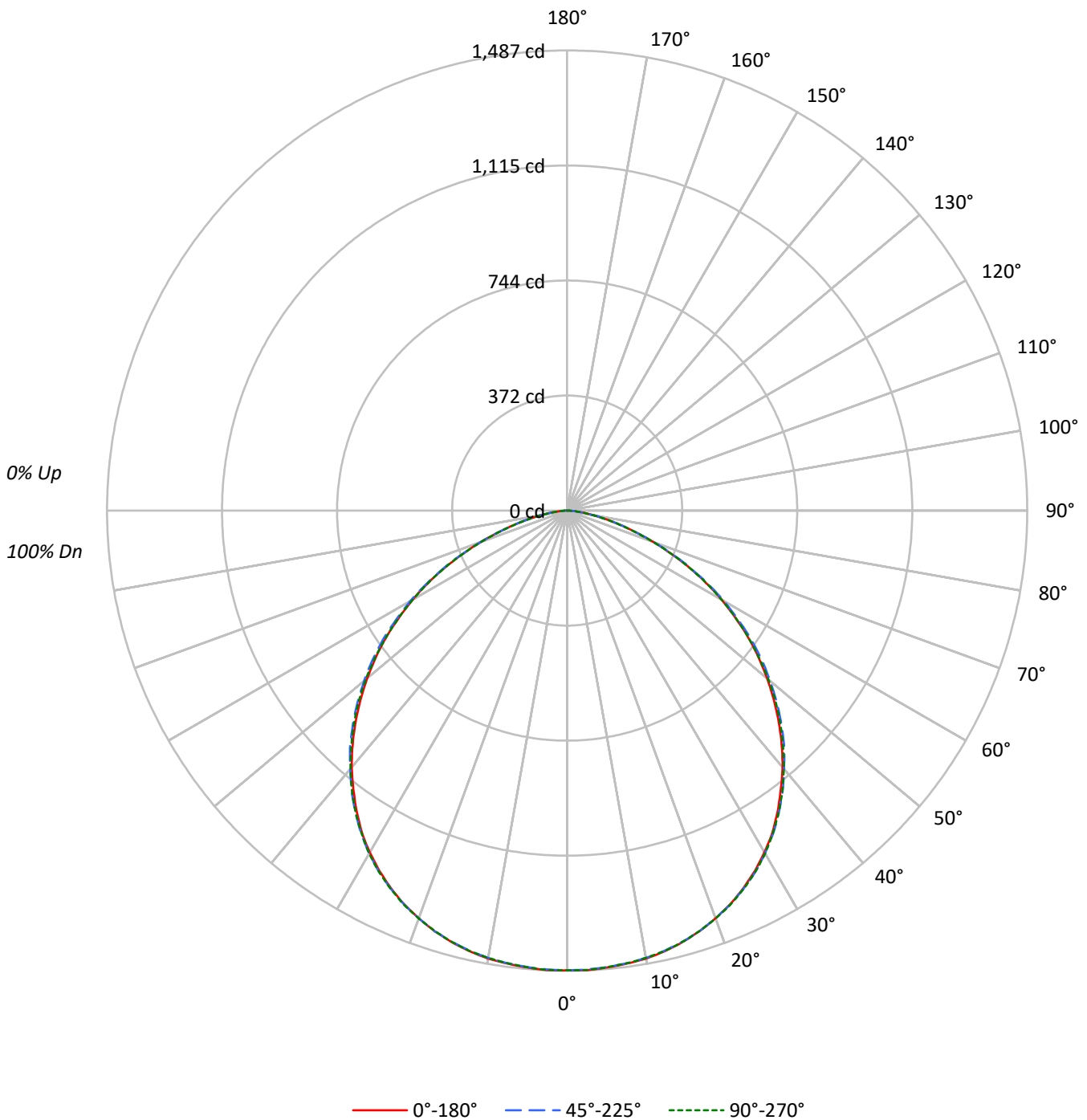
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3970.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.37
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 (Ain): 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: P738213

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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 | 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 | 110 | 105 | 101 | 98 | 107 | 103 | 99 | 96 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 88 | | | | | 85 | | | | |
| 2 | 100 | 92 | 86 | 80 | 98 | 90 | 85 | 80 | 87 | 82 | 78 | 84 | 80 | 76 | 81 | 77 | 74 | | | | | 72 | | | | |
| 3 | 92 | 81 | 74 | 67 | 89 | 80 | 73 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 67 | 63 | | | | | 61 | | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 69 | 62 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | | | | | 53 | | | | |
| 5 | 77 | 65 | 56 | 50 | 75 | 64 | 56 | 49 | 62 | 54 | 49 | 60 | 53 | 48 | 58 | 52 | 48 | | | | | 46 | | | | |
| 6 | 71 | 58 | 50 | 43 | 70 | 58 | 49 | 43 | 56 | 48 | 43 | 54 | 48 | 43 | 52 | 47 | 42 | | | | | 40 | | | | |
| 7 | 66 | 53 | 44 | 38 | 65 | 52 | 44 | 38 | 51 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 37 | | | | | 36 | | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 39 | 34 | 44 | 38 | 34 | | | | | 32 | | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 36 | 31 | 42 | 35 | 31 | 41 | 35 | 30 | | | | | 29 | | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 41 | 33 | 28 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | | | | | 26 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 4353 | 4353 | 4353 |
| 5° | 4360 | 4357 | 4357 |
| 10° | 4373 | 4367 | 4367 |
| 15° | 4379 | 4375 | 4376 |
| 20° | 4373 | 4371 | 4374 |
| 25° | 4354 | 4359 | 4362 |
| 30° | 4314 | 4328 | 4330 |
| 35° | 4242 | 4265 | 4263 |
| 40° | 4143 | 4171 | 4166 |
| 45° | 4007 | 4058 | 4038 |
| 50° | 3845 | 3903 | 3871 |
| 55° | 3649 | 3707 | 3655 |
| 60° | 3382 | 3429 | 3371 |
| 65° | 3018 | 3049 | 3015 |
| 70° | 2539 | 2539 | 2522 |
| 75° | 1990 | 1990 | 1968 |
| 80° | 1456 | 1441 | 1433 |
| 85° | 951 | 951 | 968 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 140.9 | 3.6 |
| 10°-20° | 407.1 | 10.3 |
| 20°-30° | 621.0 | 15.6 |
| 30°-40° | 744.3 | 18.7 |
| 40°-50° | 751.7 | 18.9 |
| 50°-60° | 643.1 | 16.2 |
| 60°-70° | 433.7 | 10.9 |
| 70°-80° | 191.3 | 4.8 |
| 80°-90° | 36.7 | 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° | 1169.1 | 29.4 |
| 0°-40° | 1913.4 | 48.2 |
| 0°-60° | 3308.2 | 83.3 |
| 0°-90° | 3970.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3970.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1486 | 1486 | 1486 | 1486 | 1486 | |
| 5° | 1482 | 1480 | 1481 | 1480 | 1481 | 141 |
| 15° | 1444 | 1443 | 1442 | 1442 | 1442 | 407 |
| 25° | 1347 | 1348 | 1348 | 1348 | 1349 | 620 |
| 35° | 1186 | 1193 | 1192 | 1191 | 1192 | 741 |
| 45° | 967 | 974 | 979 | 978 | 974 | 745 |
| 55° | 714 | 721 | 726 | 725 | 715 | 636 |
| 65° | 435 | 439 | 440 | 439 | 435 | 430 |
| 75° | 176 | 176 | 176 | 176 | 174 | 191 |
| 85° | 28 | 28 | 28 | 29 | 29 | 37 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1485.7 | 1485.7 | 1485.7 | 1485.7 | 1485.7 |
| 2.5° | 1486.7 | 1484.7 | 1484.2 | 1483.8 | 1485.7 |
| 5° | 1482.2 | 1480.3 | 1481.2 | 1480.3 | 1481.2 |
| 7.5° | 1476.8 | 1474.8 | 1475.4 | 1474.2 | 1475.4 |
| 10° | 1469.9 | 1467.8 | 1467.8 | 1466.8 | 1467.8 |
| 12.5° | 1458.8 | 1457.4 | 1456.9 | 1455.9 | 1457.4 |
| 15° | 1443.5 | 1443.0 | 1442.1 | 1441.5 | 1442.5 |
| 17.5° | 1424.7 | 1423.7 | 1424.7 | 1423.2 | 1424.1 |
| 20° | 1402.3 | 1402.9 | 1401.9 | 1402.3 | 1402.9 |
| 22.5° | 1377.0 | 1377.0 | 1377.5 | 1377.5 | 1378.5 |
| 25° | 1346.8 | 1348.2 | 1348.2 | 1348.2 | 1349.3 |
| 27.5° | 1313.0 | 1315.0 | 1316.4 | 1315.4 | 1316.4 |
| 30° | 1275.2 | 1278.7 | 1279.2 | 1278.7 | 1279.7 |
| 32.5° | 1234.5 | 1237.0 | 1238.4 | 1237.5 | 1236.5 |
| 35° | 1185.8 | 1192.8 | 1192.4 | 1191.3 | 1191.8 |
| 37.5° | 1134.7 | 1141.7 | 1144.1 | 1142.2 | 1142.7 |
| 40° | 1083.1 | 1089.1 | 1090.5 | 1091.1 | 1089.1 |
| 42.5° | 1026.0 | 1033.0 | 1038.5 | 1036.0 | 1033.0 |
| 45° | 967.0 | 974.4 | 979.4 | 977.9 | 974.4 |
| 47.5° | 906.0 | 912.8 | 919.8 | 917.3 | 913.9 |
| 50° | 843.4 | 850.3 | 856.3 | 855.3 | 849.3 |
| 52.5° | 779.3 | 787.3 | 792.7 | 790.8 | 782.8 |
| 55° | 714.4 | 720.8 | 725.7 | 724.7 | 715.4 |
| 57.5° | 643.9 | 652.2 | 654.8 | 653.2 | 646.4 |
| 60° | 577.2 | 582.8 | 585.2 | 583.3 | 575.3 |
| 62.5° | 506.3 | 510.8 | 512.7 | 512.3 | 506.9 |
| 65° | 435.3 | 438.8 | 439.8 | 438.8 | 434.8 |
| 67.5° | 362.4 | 367.3 | 367.9 | 367.9 | 363.8 |
| 70° | 296.4 | 297.8 | 296.4 | 300.3 | 294.4 |
| 72.5° | 232.3 | 233.3 | 232.3 | 232.3 | 229.8 |
| 75° | 175.8 | 176.2 | 175.8 | 176.2 | 173.8 |
| 77.5° | 127.1 | 128.0 | 126.1 | 127.6 | 125.1 |
| 80° | 86.3 | 86.3 | 85.4 | 85.9 | 84.9 |
| 82.5° | 53.6 | 54.6 | 53.2 | 53.2 | 52.6 |
| 85° | 28.3 | 28.3 | 28.3 | 28.8 | 28.8 |
| 87.5° | 9.9 | 9.9 | 10.4 | 10.4 | 9.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)