

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: P738211

Luminaire Tested: **22PT-45-PR1-L930**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P738211
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-L930
Description: 4500 LUMEN 2X2 PERCEIVE PT TROFFER WITH 3000K, 90 CRI LEDS AND RIPLE LENS

Light Source: -
Ballast/Driver: -

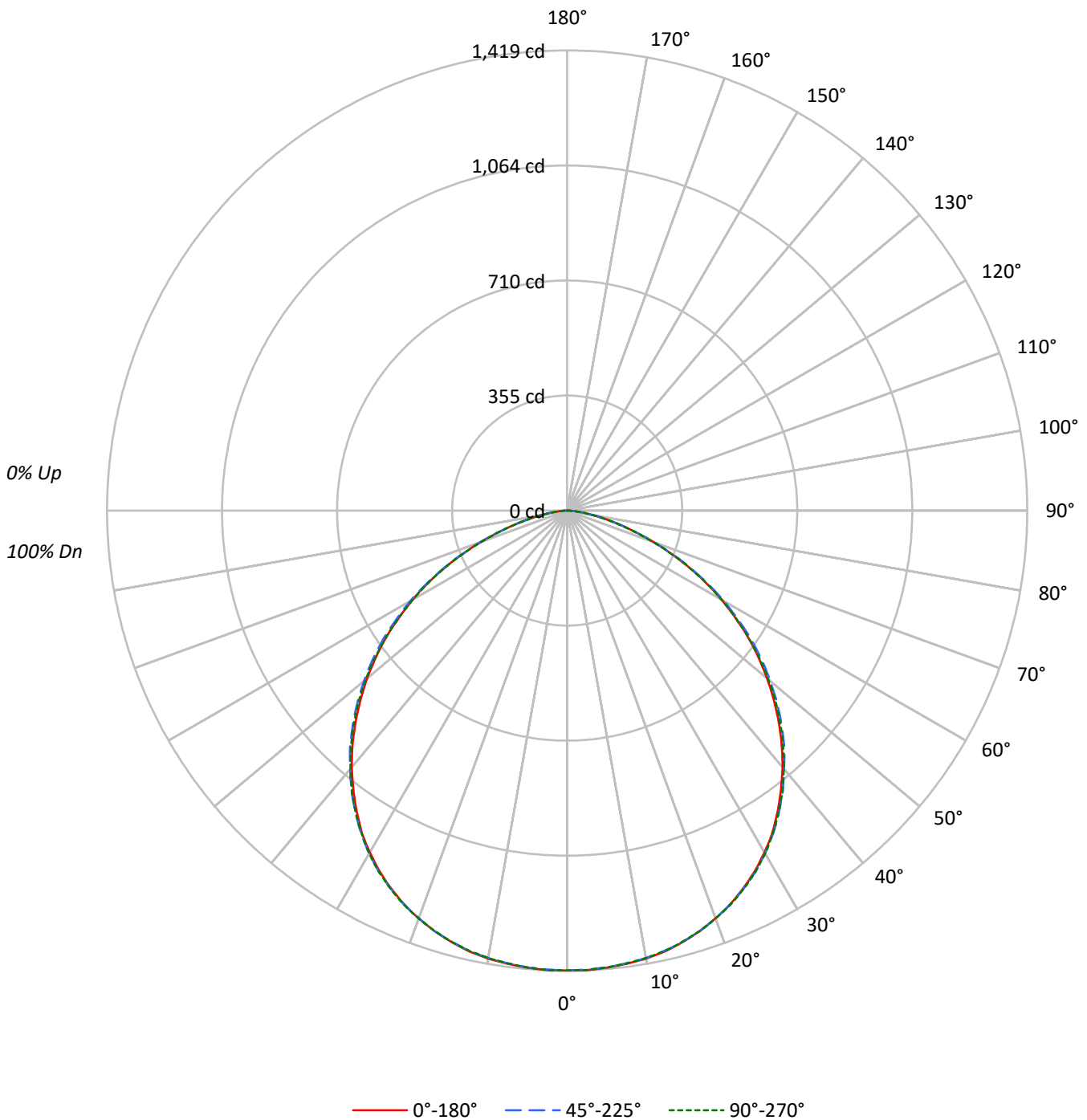
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3789.0 lumens
Efficiency: N/A
Efficacy: 107.3 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 (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: P738211

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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 | 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° | 4155 | 4155 | 4155 |
| 5° | 4161 | 4158 | 4158 |
| 10° | 4174 | 4168 | 4168 |
| 15° | 4179 | 4175 | 4176 |
| 20° | 4173 | 4172 | 4175 |
| 25° | 4156 | 4160 | 4163 |
| 30° | 4118 | 4130 | 4132 |
| 35° | 4048 | 4071 | 4069 |
| 40° | 3954 | 3981 | 3976 |
| 45° | 3824 | 3874 | 3854 |
| 50° | 3669 | 3725 | 3695 |
| 55° | 3483 | 3538 | 3488 |
| 60° | 3228 | 3273 | 3218 |
| 65° | 2881 | 2911 | 2877 |
| 70° | 2424 | 2424 | 2407 |
| 75° | 1899 | 1899 | 1878 |
| 80° | 1390 | 1375 | 1368 |
| 85° | 908 | 908 | 925 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 134.5 | 3.6 |
| 10°-20° | 388.6 | 10.3 |
| 20°-30° | 592.7 | 15.6 |
| 30°-40° | 710.4 | 18.7 |
| 40°-50° | 717.4 | 18.9 |
| 50°-60° | 613.8 | 16.2 |
| 60°-70° | 413.9 | 10.9 |
| 70°-80° | 182.6 | 4.8 |
| 80°-90° | 35.1 | 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° | 1115.8 | 29.4 |
| 0°-40° | 1826.2 | 48.2 |
| 0°-60° | 3157.4 | 83.3 |
| 0°-90° | 3789.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3789.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1418 | 1418 | 1418 | 1418 | 1418 | |
| 5° | 1415 | 1413 | 1414 | 1413 | 1414 | 135 |
| 15° | 1378 | 1377 | 1376 | 1376 | 1377 | 389 |
| 25° | 1285 | 1287 | 1287 | 1287 | 1288 | 592 |
| 35° | 1132 | 1138 | 1138 | 1137 | 1138 | 707 |
| 45° | 923 | 930 | 935 | 933 | 930 | 711 |
| 55° | 682 | 688 | 693 | 692 | 683 | 607 |
| 65° | 416 | 419 | 420 | 419 | 415 | 411 |
| 75° | 168 | 168 | 168 | 168 | 166 | 183 |
| 85° | 27 | 27 | 27 | 28 | 28 | 35 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P738211

CATALOG NUMBER: 22PT-45-PR1-L930

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1418.0 | 1418.0 | 1418.0 | 1418.0 | 1418.0 |
| 2.5° | 1418.9 | 1417.0 | 1416.5 | 1416.1 | 1418.0 |
| 5° | 1414.6 | 1412.8 | 1413.7 | 1412.8 | 1413.7 |
| 7.5° | 1409.4 | 1407.6 | 1408.1 | 1407.0 | 1408.1 |
| 10° | 1402.9 | 1400.9 | 1400.9 | 1399.9 | 1400.9 |
| 12.5° | 1392.3 | 1391.0 | 1390.5 | 1389.5 | 1391.0 |
| 15° | 1377.6 | 1377.2 | 1376.3 | 1375.8 | 1376.7 |
| 17.5° | 1359.7 | 1358.8 | 1359.7 | 1358.3 | 1359.2 |
| 20° | 1338.4 | 1338.9 | 1338.0 | 1338.4 | 1338.9 |
| 22.5° | 1314.2 | 1314.2 | 1314.7 | 1314.7 | 1315.7 |
| 25° | 1285.4 | 1286.7 | 1286.7 | 1286.7 | 1287.8 |
| 27.5° | 1253.2 | 1255.0 | 1256.4 | 1255.4 | 1256.4 |
| 30° | 1217.1 | 1220.4 | 1220.8 | 1220.4 | 1221.4 |
| 32.5° | 1178.2 | 1180.6 | 1182.0 | 1181.0 | 1180.1 |
| 35° | 1131.8 | 1138.4 | 1138.0 | 1137.0 | 1137.5 |
| 37.5° | 1083.0 | 1089.7 | 1092.0 | 1090.1 | 1090.6 |
| 40° | 1033.7 | 1039.5 | 1040.8 | 1041.3 | 1039.5 |
| 42.5° | 979.2 | 985.9 | 991.1 | 988.7 | 985.9 |
| 45° | 922.9 | 930.0 | 934.8 | 933.3 | 930.0 |
| 47.5° | 864.6 | 871.2 | 877.9 | 875.5 | 872.3 |
| 50° | 804.9 | 811.5 | 817.2 | 816.3 | 810.6 |
| 52.5° | 743.8 | 751.4 | 756.6 | 754.7 | 747.1 |
| 55° | 681.8 | 688.0 | 692.6 | 691.7 | 682.7 |
| 57.5° | 614.5 | 622.5 | 624.9 | 623.4 | 616.9 |
| 60° | 550.9 | 556.3 | 558.5 | 556.7 | 549.1 |
| 62.5° | 483.2 | 487.5 | 489.4 | 489.0 | 483.7 |
| 65° | 415.5 | 418.8 | 419.8 | 418.8 | 415.0 |
| 67.5° | 345.9 | 350.6 | 351.1 | 351.1 | 347.2 |
| 70° | 282.9 | 284.2 | 282.9 | 286.6 | 281.0 |
| 72.5° | 221.7 | 222.6 | 221.7 | 221.7 | 219.3 |
| 75° | 167.7 | 168.1 | 167.7 | 168.1 | 165.9 |
| 77.5° | 121.3 | 122.2 | 120.3 | 121.8 | 119.4 |
| 80° | 82.4 | 82.4 | 81.5 | 82.0 | 81.1 |
| 82.5° | 51.2 | 52.1 | 50.8 | 50.8 | 50.2 |
| 85° | 27.0 | 27.0 | 27.0 | 27.5 | 27.5 |
| 87.5° | 9.5 | 9.5 | 9.9 | 9.9 | 9.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)