

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: P737794

Luminaire Tested: **14PT-30-PW1-L850**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2211-846-9)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 2/8/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PT-30-PW1-L850
Description: 3000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 5000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

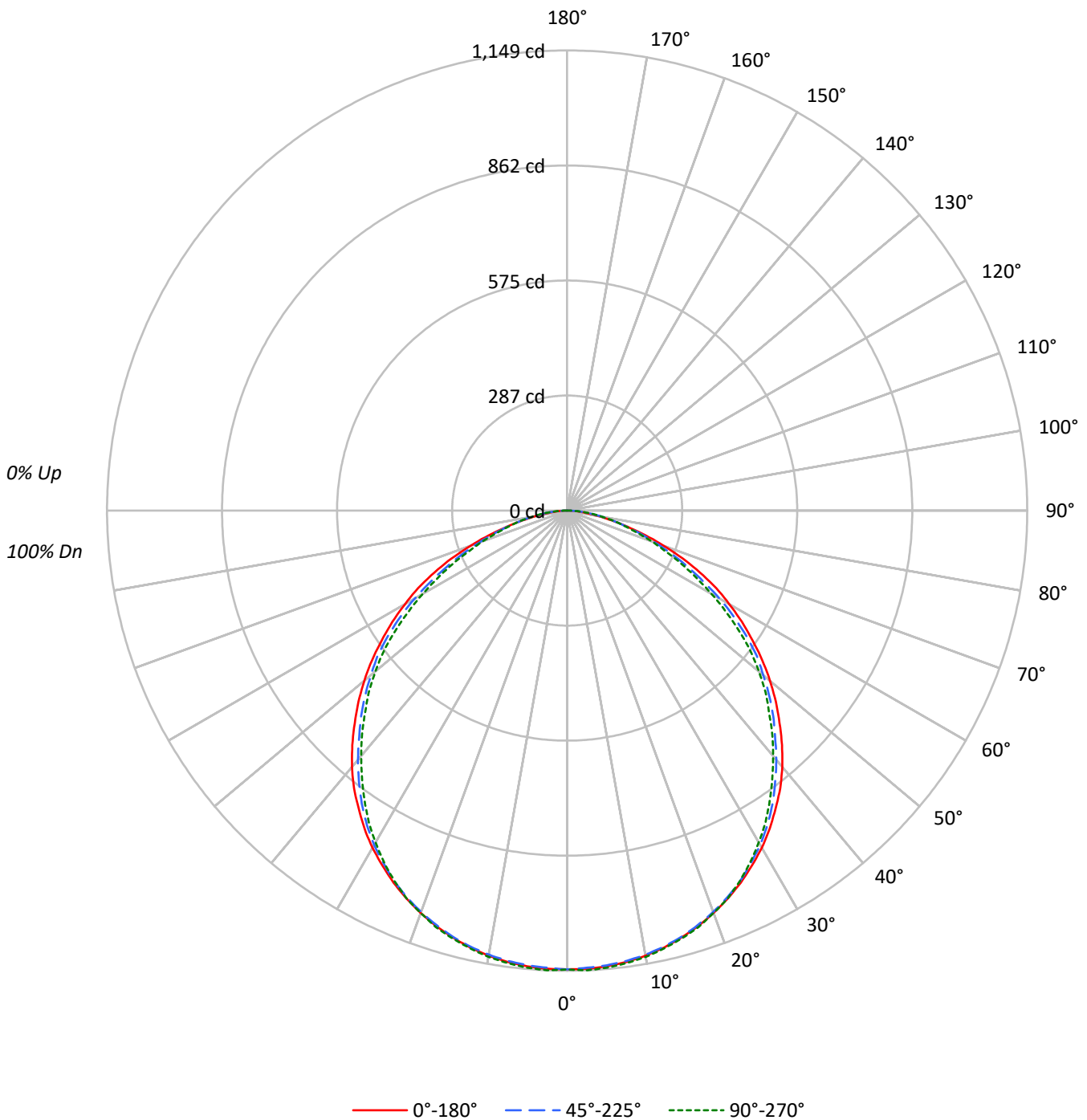
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3040.0 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.34
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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

TEST NUMBER: P737794
CATALOG NUMBER: 14PT-30-PW1-L850

Luminous Intensity Polar Plot





TEST NUMBER: P737794

CATALOG NUMBER: 14PT-30-PW1-L850

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 | 95 | 98 | 95 | 92 | 94 | 92 | 90 | 91 | 89 | 87 | 85 |
| 2 | 100 | 92 | 85 | 80 | 97 | 90 | 84 | 79 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 |
| 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 | 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 | 48 | 42 | 37 | 35 |
| 8 | 62 | 48 | 40 | 34 | 60 | 47 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3435 | 3435 | 3435 |
| 5° | 3437 | 3430 | 3448 |
| 10° | 3436 | 3428 | 3445 |
| 15° | 3425 | 3420 | 3433 |
| 20° | 3411 | 3403 | 3411 |
| 25° | 3392 | 3378 | 3375 |
| 30° | 3366 | 3337 | 3313 |
| 35° | 3321 | 3272 | 3230 |
| 40° | 3271 | 3181 | 3131 |
| 45° | 3180 | 3086 | 3023 |
| 50° | 3084 | 2983 | 2914 |
| 55° | 2955 | 2855 | 2742 |
| 60° | 2802 | 2637 | 2499 |
| 65° | 2592 | 2355 | 2237 |
| 70° | 2248 | 2050 | 1972 |
| 75° | 1794 | 1755 | 1706 |
| 80° | 1362 | 1525 | 1525 |
| 85° | 1008 | 1300 | 1300 |



TEST NUMBER: P737794

CATALOG NUMBER: 14PT-30-PW1-L850

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 108.6 | 3.6 |
| 10°-20° | 311.6 | 10.2 |
| 20°-30° | 470.9 | 15.5 |
| 30°-40° | 559.2 | 18.4 |
| 40°-50° | 563.4 | 18.5 |
| 50°-60° | 487.0 | 16.0 |
| 60°-70° | 332.8 | 10.9 |
| 70°-80° | 164.1 | 5.4 |
| 80°-90° | 42.5 | 1.4 |
| 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° | 891.1 | 29.3 |
| 0°-40° | 1450.3 | 47.7 |
| 0°-60° | 2500.6 | 82.3 |
| 0°-90° | 3040.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3040.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1146 | 1146 | 1146 | 1146 | 1146 | |
| 5° | 1142 | 1143 | 1140 | 1144 | 1146 | 109 |
| 15° | 1104 | 1105 | 1102 | 1106 | 1106 | 312 |
| 25° | 1026 | 1025 | 1021 | 1022 | 1020 | 472 |
| 35° | 908 | 904 | 894 | 886 | 882 | 568 |
| 45° | 750 | 742 | 728 | 719 | 713 | 579 |
| 55° | 565 | 564 | 546 | 530 | 525 | 506 |
| 65° | 365 | 352 | 332 | 318 | 315 | 361 |
| 75° | 155 | 154 | 152 | 152 | 147 | 169 |
| 85° | 29 | 34 | 38 | 39 | 38 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P737794

CATALOG NUMBER: 14PT-30-PW1-L850

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1145.6 | 1145.6 | 1145.6 | 1145.6 | 1145.6 |
| 2.5° | 1145.1 | 1145.6 | 1142.6 | 1147.7 | 1149.0 |
| 5° | 1142.2 | 1142.6 | 1139.6 | 1144.3 | 1145.6 |
| 7.5° | 1136.7 | 1137.5 | 1134.1 | 1138.8 | 1139.6 |
| 10° | 1128.6 | 1129.0 | 1126.0 | 1130.7 | 1131.6 |
| 12.5° | 1117.6 | 1118.0 | 1115.4 | 1119.7 | 1119.7 |
| 15° | 1103.5 | 1104.8 | 1101.9 | 1105.7 | 1106.1 |
| 17.5° | 1087.8 | 1088.3 | 1085.3 | 1089.5 | 1090.4 |
| 20° | 1069.2 | 1069.2 | 1066.6 | 1070.0 | 1069.2 |
| 22.5° | 1048.4 | 1048.4 | 1045.4 | 1047.1 | 1047.9 |
| 25° | 1025.5 | 1024.6 | 1021.2 | 1022.1 | 1020.4 |
| 27.5° | 999.1 | 999.1 | 993.2 | 993.2 | 990.2 |
| 30° | 972.4 | 970.3 | 963.9 | 960.1 | 957.1 |
| 32.5° | 941.8 | 938.9 | 930.8 | 924.0 | 921.9 |
| 35° | 907.5 | 904.5 | 893.9 | 885.8 | 882.4 |
| 37.5° | 874.4 | 867.6 | 853.6 | 845.5 | 841.7 |
| 40° | 835.7 | 827.2 | 812.8 | 801.8 | 800.1 |
| 42.5° | 794.1 | 787.3 | 768.7 | 760.6 | 758.5 |
| 45° | 750.0 | 741.9 | 727.9 | 719.4 | 713.1 |
| 47.5° | 706.7 | 700.8 | 684.6 | 674.4 | 672.3 |
| 50° | 661.3 | 656.2 | 639.6 | 628.6 | 624.8 |
| 52.5° | 614.2 | 610.8 | 596.8 | 582.8 | 578.1 |
| 55° | 565.4 | 563.7 | 546.3 | 530.1 | 524.6 |
| 57.5° | 517.4 | 515.3 | 493.6 | 475.0 | 469.9 |
| 60° | 467.3 | 460.9 | 439.7 | 422.3 | 416.8 |
| 62.5° | 419.8 | 406.2 | 383.3 | 369.7 | 363.3 |
| 65° | 365.4 | 352.3 | 331.9 | 317.5 | 315.4 |
| 67.5° | 312.0 | 296.3 | 280.6 | 271.6 | 264.9 |
| 70° | 256.4 | 245.8 | 233.9 | 226.2 | 225.0 |
| 72.5° | 204.6 | 196.9 | 191.0 | 186.3 | 182.5 |
| 75° | 154.9 | 153.6 | 151.5 | 151.5 | 147.3 |
| 77.5° | 113.8 | 116.7 | 118.4 | 118.0 | 118.8 |
| 80° | 78.9 | 84.9 | 88.3 | 88.7 | 88.3 |
| 82.5° | 50.1 | 56.9 | 62.4 | 63.2 | 64.1 |
| 85° | 29.3 | 34.4 | 37.8 | 38.6 | 37.8 |
| 87.5° | 13.2 | 16.6 | 17.4 | 18.3 | 17.4 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)