

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: P737791

Luminaire Tested: **14PT-30-PW1-L830**

Issue Date: 2/8/2024



Test Information

Test Method: LM-79-08
Report Number: P737791
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-L830
Description: 3000 LUMEN 1X4 PERCEIVE PT TROFFER WITH 3000K, 80 CRI LEDS AND WAVES LENS

Light Source: -
Ballast/Driver: -

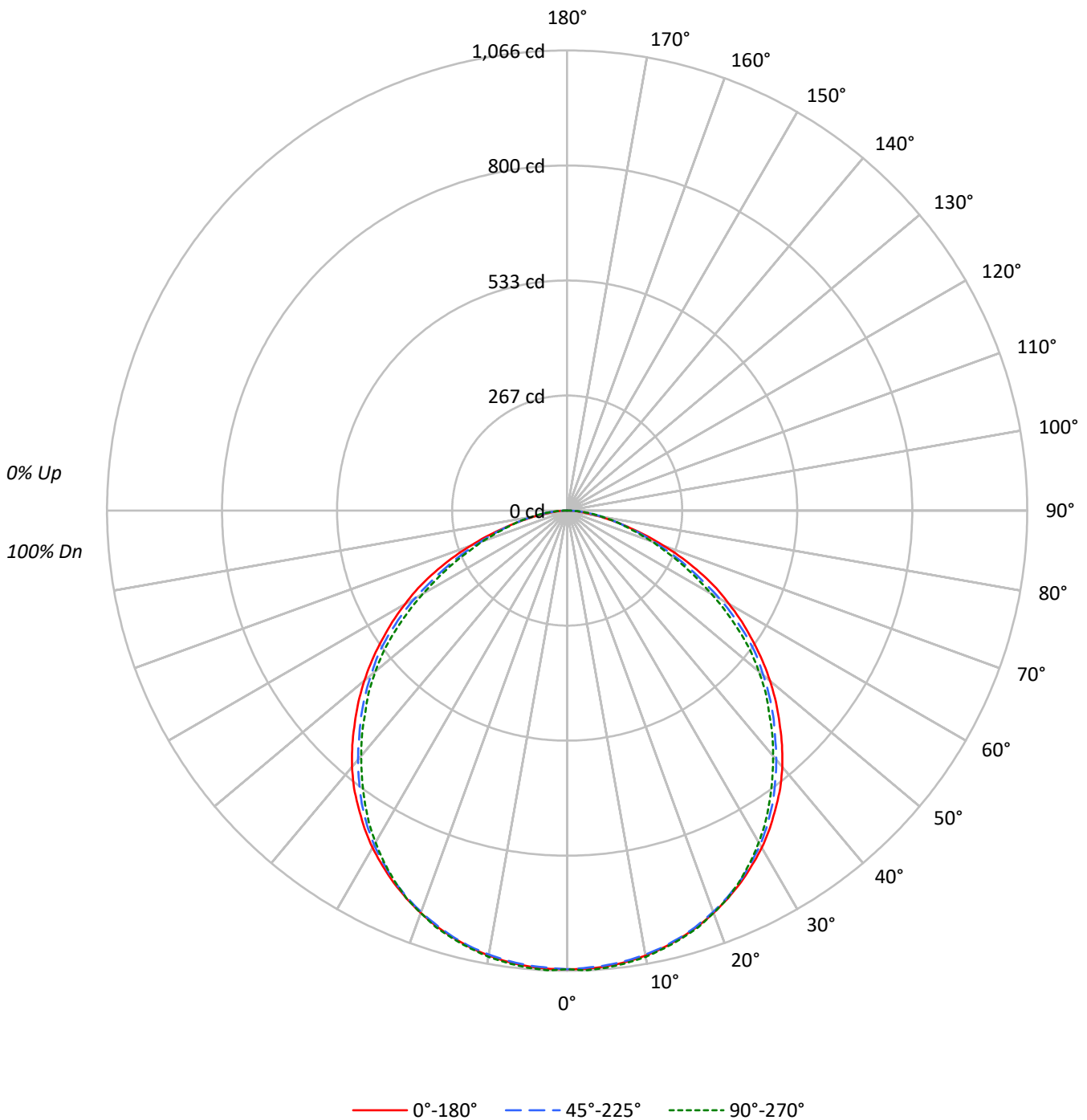
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2820.0 lumens
Efficiency: N/A
Efficacy: 120.5 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

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Luminous Intensity Polar Plot





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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 | 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° | 3186 | 3186 | 3186 |
| 5° | 3189 | 3182 | 3198 |
| 10° | 3187 | 3180 | 3196 |
| 15° | 3177 | 3172 | 3185 |
| 20° | 3164 | 3157 | 3164 |
| 25° | 3147 | 3134 | 3131 |
| 30° | 3123 | 3096 | 3074 |
| 35° | 3081 | 3035 | 2996 |
| 40° | 3034 | 2951 | 2905 |
| 45° | 2950 | 2863 | 2805 |
| 50° | 2861 | 2767 | 2703 |
| 55° | 2741 | 2649 | 2543 |
| 60° | 2599 | 2446 | 2318 |
| 65° | 2405 | 2184 | 2075 |
| 70° | 2085 | 1901 | 1829 |
| 75° | 1665 | 1629 | 1582 |
| 80° | 1264 | 1414 | 1414 |
| 85° | 936 | 1204 | 1204 |



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CATALOG NUMBER: 14PT-30-PW1-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.8 | 3.6 |
| 10°-20° | 289.0 | 10.2 |
| 20°-30° | 436.8 | 15.5 |
| 30°-40° | 518.7 | 18.4 |
| 40°-50° | 522.6 | 18.5 |
| 50°-60° | 451.7 | 16.0 |
| 60°-70° | 308.7 | 10.9 |
| 70°-80° | 152.2 | 5.4 |
| 80°-90° | 39.4 | 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° | 826.7 | 29.3 |
| 0°-40° | 1345.4 | 47.7 |
| 0°-60° | 2319.7 | 82.3 |
| 0°-90° | 2820.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2820.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1063 | 1063 | 1063 | 1063 | 1063 | |
| 5° | 1060 | 1060 | 1057 | 1062 | 1063 | 101 |
| 15° | 1024 | 1025 | 1022 | 1026 | 1026 | 289 |
| 25° | 951 | 950 | 947 | 948 | 946 | 438 |
| 35° | 842 | 839 | 829 | 822 | 819 | 527 |
| 45° | 696 | 688 | 675 | 667 | 662 | 537 |
| 55° | 524 | 523 | 507 | 492 | 487 | 469 |
| 65° | 339 | 327 | 308 | 294 | 292 | 335 |
| 75° | 144 | 142 | 141 | 141 | 137 | 157 |
| 85° | 27 | 32 | 35 | 36 | 35 | 33 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P737791

CATALOG NUMBER: 14PT-30-PW1-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1062.7 | 1062.7 | 1062.7 | 1062.7 | 1062.7 |
| 2.5° | 1062.3 | 1062.7 | 1059.9 | 1064.6 | 1065.8 |
| 5° | 1059.5 | 1059.9 | 1057.2 | 1061.5 | 1062.7 |
| 7.5° | 1054.4 | 1055.2 | 1052.0 | 1056.4 | 1057.2 |
| 10° | 1046.9 | 1047.3 | 1044.6 | 1048.9 | 1049.7 |
| 12.5° | 1036.7 | 1037.1 | 1034.7 | 1038.6 | 1038.6 |
| 15° | 1023.7 | 1024.9 | 1022.1 | 1025.7 | 1026.0 |
| 17.5° | 1009.1 | 1009.5 | 1006.8 | 1010.7 | 1011.5 |
| 20° | 991.8 | 991.8 | 989.4 | 992.6 | 991.8 |
| 22.5° | 972.5 | 972.5 | 969.7 | 971.3 | 972.1 |
| 25° | 951.2 | 950.5 | 947.3 | 948.1 | 946.5 |
| 27.5° | 926.8 | 926.8 | 921.3 | 921.3 | 918.6 |
| 30° | 902.0 | 900.1 | 894.2 | 890.6 | 887.9 |
| 32.5° | 873.7 | 870.9 | 863.4 | 857.1 | 855.2 |
| 35° | 841.8 | 839.0 | 829.2 | 821.7 | 818.6 |
| 37.5° | 811.1 | 804.8 | 791.8 | 784.3 | 780.8 |
| 40° | 775.2 | 767.4 | 754.0 | 743.7 | 742.2 |
| 42.5° | 736.7 | 730.4 | 713.0 | 705.6 | 703.6 |
| 45° | 695.7 | 688.2 | 675.2 | 667.4 | 661.5 |
| 47.5° | 655.6 | 650.0 | 635.1 | 625.6 | 623.7 |
| 50° | 613.4 | 608.7 | 593.3 | 583.1 | 579.6 |
| 52.5° | 569.7 | 566.6 | 553.6 | 540.6 | 536.3 |
| 55° | 524.4 | 522.9 | 506.7 | 491.8 | 486.6 |
| 57.5° | 480.0 | 478.0 | 457.9 | 440.6 | 435.9 |
| 60° | 433.5 | 427.6 | 407.9 | 391.8 | 386.6 |
| 62.5° | 389.4 | 376.8 | 355.5 | 342.9 | 337.0 |
| 65° | 339.0 | 326.8 | 307.9 | 294.5 | 292.5 |
| 67.5° | 289.4 | 274.8 | 260.3 | 252.0 | 245.7 |
| 70° | 237.8 | 228.0 | 216.9 | 209.9 | 208.7 |
| 72.5° | 189.8 | 182.7 | 177.2 | 172.8 | 169.3 |
| 75° | 143.7 | 142.5 | 140.6 | 140.6 | 136.6 |
| 77.5° | 105.5 | 108.3 | 109.8 | 109.5 | 110.2 |
| 80° | 73.2 | 78.7 | 81.9 | 82.3 | 81.9 |
| 82.5° | 46.5 | 52.8 | 57.9 | 58.7 | 59.5 |
| 85° | 27.2 | 31.9 | 35.0 | 35.8 | 35.0 |
| 87.5° | 12.2 | 15.4 | 16.1 | 16.9 | 16.1 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)