

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: P412629

Luminaire Tested: **14PD-25-PP3-L935**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412629
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-47)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-25-PP3-L935
Description: 2500 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 3500 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2139.0 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Spacing Criteria (0/90/45): 1.35 / 1.33 / 1.43
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 22.7
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: P412629

CATALOG NUMBER: 14PD-25-PP3-L935

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 | 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 | 86 | 81 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 71 | | | | | | | | |
| 3 | 91 | 81 | 73 | 66 | 89 | 79 | 72 | 66 | 76 | 70 | 65 | 73 | 68 | 64 | 71 | 66 | 63 | 60 | | | | | | | | |
| 4 | 83 | 72 | 63 | 56 | 81 | 70 | 62 | 56 | 68 | 61 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 5 | 77 | 64 | 55 | 49 | 75 | 63 | 54 | 48 | 61 | 53 | 48 | 59 | 52 | 47 | 57 | 51 | 47 | 45 | | | | | | | | |
| 6 | 71 | 58 | 49 | 42 | 69 | 57 | 48 | 42 | 55 | 47 | 42 | 53 | 46 | 41 | 52 | 46 | 41 | 39 | | | | | | | | |
| 7 | 66 | 52 | 43 | 37 | 64 | 51 | 43 | 37 | 50 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 36 | 34 | | | | | | | | |
| 8 | 61 | 47 | 39 | 33 | 59 | 47 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 32 | 31 | | | | | | | | |
| 9 | 57 | 44 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 27 | | | | | | | | |
| 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° | 1978 | 1978 | 1978 |
| 5° | 1984 | 1983 | 1984 |
| 10° | 1996 | 1994 | 1995 |
| 15° | 2013 | 2010 | 2009 |
| 20° | 2038 | 2031 | 2026 |
| 25° | 2063 | 2053 | 2043 |
| 30° | 2086 | 2072 | 2058 |
| 35° | 2098 | 2085 | 2066 |
| 40° | 2092 | 2079 | 2056 |
| 45° | 2062 | 2042 | 2019 |
| 50° | 2005 | 1973 | 1953 |
| 55° | 1923 | 1876 | 1852 |
| 60° | 1791 | 1760 | 1724 |
| 65° | 1624 | 1591 | 1545 |
| 70° | 1386 | 1360 | 1317 |
| 75° | 1082 | 1071 | 1020 |
| 80° | 798 | 766 | 722 |
| 85° | 482 | 482 | 448 |



TEST NUMBER: P412629

CATALOG NUMBER: 14PD-25-PP3-L935

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 69.9 | 3.3 |
| 10°-20° | 204.1 | 9.5 |
| 20°-30° | 319.0 | 14.9 |
| 30°-40° | 396.4 | 18.5 |
| 40°-50° | 413.1 | 19.3 |
| 50°-60° | 358.4 | 16.8 |
| 60°-70° | 246.4 | 11.5 |
| 70°-80° | 111.2 | 5.2 |
| 80°-90° | 20.4 | 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° | 593.0 | 27.7 |
| 0°-40° | 989.4 | 46.3 |
| 0°-60° | 1760.9 | 82.3 |
| 0°-90° | 2139.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2139.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 735 | 735 | 735 | 735 | 735 | |
| 5° | 734 | 734 | 734 | 733 | 734 | 70 |
| 15° | 723 | 723 | 722 | 721 | 721 | 204 |
| 25° | 695 | 695 | 691 | 688 | 688 | 321 |
| 35° | 638 | 638 | 635 | 631 | 629 | 399 |
| 45° | 542 | 542 | 536 | 532 | 530 | 417 |
| 55° | 410 | 407 | 400 | 395 | 395 | 365 |
| 65° | 255 | 254 | 250 | 244 | 243 | 252 |
| 75° | 104 | 104 | 103 | 100 | 98 | 113 |
| 85° | 16 | 15 | 16 | 15 | 14 | 21 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412629

CATALOG NUMBER: 14PD-25-PP3-L935

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 735.1 | 735.1 | 735.1 | 735.1 | 735.1 |
| 2.5° | 735.3 | 735.3 | 734.9 | 734.3 | 735.8 |
| 5° | 734.3 | 734.5 | 734.0 | 733.4 | 734.5 |
| 7.5° | 732.8 | 733.0 | 732.3 | 731.7 | 732.5 |
| 10° | 730.4 | 730.2 | 729.6 | 729.1 | 730.2 |
| 12.5° | 727.0 | 726.8 | 726.1 | 725.7 | 726.6 |
| 15° | 722.7 | 722.7 | 721.6 | 721.0 | 721.2 |
| 17.5° | 717.6 | 717.6 | 716.1 | 714.6 | 715.0 |
| 20° | 711.6 | 711.4 | 709.2 | 707.8 | 707.5 |
| 22.5° | 704.1 | 704.1 | 701.1 | 699.2 | 698.6 |
| 25° | 694.9 | 694.7 | 691.3 | 688.5 | 688.1 |
| 27.5° | 684.5 | 684.0 | 680.0 | 677.2 | 676.1 |
| 30° | 671.4 | 671.0 | 666.7 | 663.7 | 662.4 |
| 32.5° | 656.0 | 656.7 | 651.7 | 648.3 | 647.0 |
| 35° | 638.5 | 638.5 | 634.6 | 631.0 | 628.9 |
| 37.5° | 618.4 | 618.4 | 614.8 | 611.1 | 608.6 |
| 40° | 595.5 | 595.7 | 591.9 | 587.4 | 585.3 |
| 42.5° | 569.9 | 570.3 | 565.2 | 561.5 | 559.2 |
| 45° | 541.9 | 542.1 | 536.5 | 532.5 | 530.5 |
| 47.5° | 511.5 | 511.1 | 504.9 | 501.5 | 499.6 |
| 50° | 479.0 | 478.2 | 471.3 | 468.1 | 466.4 |
| 52.5° | 445.0 | 443.3 | 437.3 | 432.6 | 431.1 |
| 55° | 409.8 | 407.4 | 399.9 | 395.2 | 394.8 |
| 57.5° | 373.0 | 370.2 | 364.0 | 359.5 | 357.8 |
| 60° | 332.8 | 332.2 | 327.0 | 321.7 | 320.4 |
| 62.5° | 295.2 | 293.3 | 288.8 | 282.4 | 281.7 |
| 65° | 255.0 | 253.9 | 249.9 | 243.9 | 242.6 |
| 67.5° | 213.5 | 214.6 | 211.2 | 205.8 | 204.1 |
| 70° | 176.1 | 176.8 | 172.9 | 168.0 | 167.4 |
| 72.5° | 138.5 | 139.6 | 136.4 | 133.2 | 132.5 |
| 75° | 104.1 | 104.5 | 103.0 | 100.3 | 98.1 |
| 77.5° | 74.0 | 75.5 | 73.7 | 71.8 | 70.1 |
| 80° | 51.5 | 49.2 | 49.4 | 48.5 | 46.6 |
| 82.5° | 31.0 | 29.9 | 29.7 | 28.9 | 28.0 |
| 85° | 15.6 | 15.4 | 15.6 | 15.4 | 14.5 |
| 87.5° | 5.1 | 5.6 | 5.8 | 5.8 | 5.3 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)