

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: P412961

Luminaire Tested: **14PD-20-PC3-L930**

Issue Date: 9/15/2020

Test Information

Test Method: LM-79-08
Report Number: P412961
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-57)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 14PD-20-PC3-L930
Description: 2000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

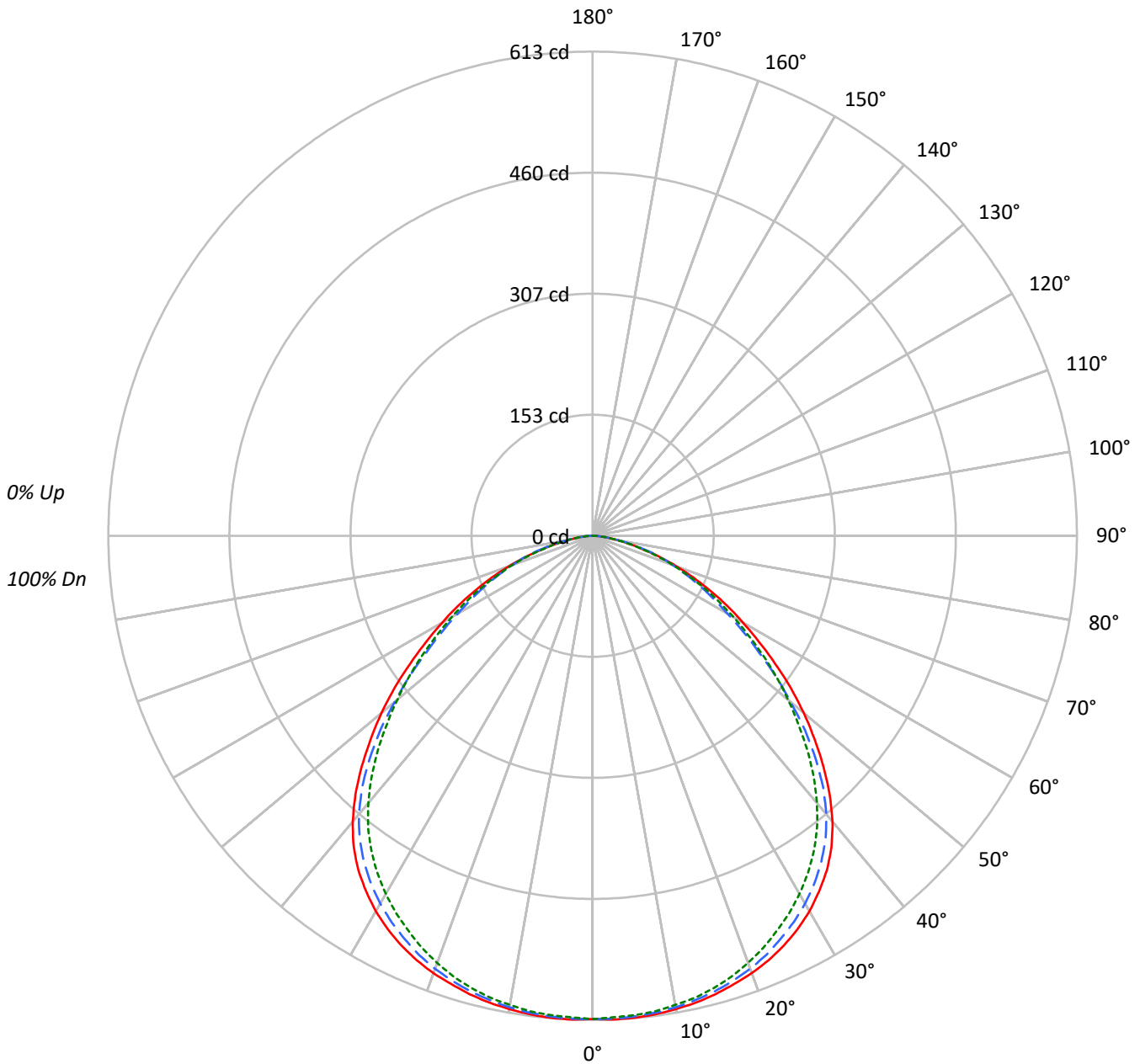
Lumens per Lamp: N/A
Luminaire Lumens: 1581.0 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.27 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 17.4
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 | 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 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 93 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | | | 86 |
| 2 | 101 | 93 | 87 | 81 | 98 | 91 | 85 | 80 | 88 | 83 | 79 | 84 | 80 | 77 | 81 | 78 | 75 | 73 | | | 73 |
| 3 | 92 | 82 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 62 | | | 62 |
| 4 | 85 | 73 | 65 | 59 | 83 | 72 | 64 | 58 | 70 | 63 | 58 | 67 | 62 | 57 | 65 | 60 | 56 | 54 | | | 54 |
| 5 | 78 | 66 | 57 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 53 | 49 | 47 | | | 47 |
| 6 | 72 | 60 | 51 | 45 | 70 | 59 | 50 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 43 | 41 | | | 41 |
| 7 | 67 | 54 | 46 | 40 | 65 | 53 | 45 | 40 | 52 | 45 | 39 | 50 | 44 | 39 | 49 | 43 | 39 | 37 | | | 37 |
| 8 | 63 | 49 | 41 | 36 | 61 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | 33 |
| 9 | 58 | 45 | 37 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 31 | 30 | | | 30 |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 40 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 | | | 27 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1646 | 1646 | 1646 |
| 5° | 1655 | 1650 | 1646 |
| 10° | 1663 | 1656 | 1648 |
| 15° | 1674 | 1663 | 1651 |
| 20° | 1688 | 1670 | 1648 |
| 25° | 1700 | 1672 | 1638 |
| 30° | 1706 | 1671 | 1627 |
| 35° | 1698 | 1657 | 1603 |
| 40° | 1659 | 1617 | 1552 |
| 45° | 1573 | 1519 | 1463 |
| 50° | 1460 | 1367 | 1351 |
| 55° | 1322 | 1205 | 1232 |
| 60° | 1182 | 1061 | 1108 |
| 65° | 1043 | 951 | 984 |
| 70° | 887 | 843 | 849 |
| 75° | 682 | 719 | 662 |
| 80° | 501 | 525 | 496 |
| 85° | 333 | 367 | 361 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.1 | 3.7 |
| 10°-20° | 168.5 | 10.7 |
| 20°-30° | 259.2 | 16.4 |
| 30°-40° | 313.6 | 19.8 |
| 40°-50° | 306.2 | 19.4 |
| 50°-60° | 236.6 | 15.0 |
| 60°-70° | 152.0 | 9.6 |
| 70°-80° | 71.7 | 4.5 |
| 80°-90° | 15.1 | 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° | 485.9 | 30.7 |
| 0°-40° | 799.5 | 50.6 |
| 0°-60° | 1342.3 | 84.9 |
| 0°-90° | 1581.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1581.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 612 | 612 | 612 | 612 | 612 | |
| 5° | 613 | 610 | 611 | 610 | 609 | 58 |
| 15° | 601 | 598 | 597 | 595 | 593 | 170 |
| 25° | 572 | 568 | 563 | 556 | 552 | 264 |
| 35° | 517 | 511 | 504 | 493 | 488 | 322 |
| 45° | 413 | 408 | 399 | 389 | 384 | 318 |
| 55° | 282 | 268 | 257 | 257 | 262 | 253 |
| 65° | 164 | 154 | 149 | 148 | 155 | 163 |
| 75° | 66 | 67 | 69 | 64 | 64 | 72 |
| 85° | 11 | 12 | 12 | 12 | 12 | 14 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 611.8 | 611.8 | 611.8 | 611.8 | 611.8 |
| 2.5° | 613.1 | 610.7 | 612.0 | 612.0 | 610.1 |
| 5° | 612.6 | 609.9 | 611.0 | 610.4 | 609.3 |
| 7.5° | 611.0 | 608.3 | 609.1 | 608.5 | 607.2 |
| 10° | 608.5 | 605.5 | 606.1 | 605.0 | 603.1 |
| 12.5° | 605.3 | 602.6 | 602.0 | 600.4 | 599.0 |
| 15° | 600.9 | 597.9 | 597.1 | 595.0 | 592.8 |
| 17.5° | 595.2 | 592.3 | 590.9 | 587.6 | 585.2 |
| 20° | 589.3 | 585.7 | 583.3 | 578.4 | 575.4 |
| 22.5° | 581.7 | 577.6 | 574.4 | 567.6 | 564.6 |
| 25° | 572.5 | 567.8 | 563.2 | 555.9 | 551.8 |
| 27.5° | 561.6 | 556.7 | 551.3 | 543.2 | 538.6 |
| 30° | 548.9 | 544.0 | 537.7 | 528.5 | 523.6 |
| 32.5° | 533.7 | 528.8 | 522.3 | 511.7 | 506.8 |
| 35° | 516.9 | 511.4 | 504.4 | 493.0 | 488.1 |
| 37.5° | 496.8 | 490.8 | 484.3 | 471.8 | 466.7 |
| 40° | 472.4 | 467.2 | 460.2 | 447.7 | 441.7 |
| 42.5° | 444.2 | 439.6 | 431.7 | 419.8 | 414.1 |
| 45° | 413.3 | 408.1 | 399.2 | 388.9 | 384.5 |
| 47.5° | 381.0 | 373.4 | 364.7 | 355.8 | 353.3 |
| 50° | 348.7 | 339.0 | 326.5 | 321.9 | 322.7 |
| 52.5° | 315.7 | 303.2 | 292.3 | 288.8 | 292.9 |
| 55° | 281.8 | 268.2 | 256.8 | 257.1 | 262.5 |
| 57.5° | 249.5 | 235.4 | 225.9 | 225.9 | 232.9 |
| 60° | 219.7 | 206.6 | 197.1 | 196.9 | 205.8 |
| 62.5° | 192.0 | 178.7 | 171.7 | 171.7 | 179.8 |
| 65° | 163.8 | 154.0 | 149.4 | 147.8 | 154.6 |
| 67.5° | 137.8 | 131.0 | 127.7 | 125.8 | 130.2 |
| 70° | 112.8 | 108.5 | 107.1 | 104.9 | 107.9 |
| 72.5° | 88.1 | 87.0 | 89.8 | 84.6 | 86.0 |
| 75° | 65.6 | 66.7 | 69.2 | 63.5 | 63.7 |
| 77.5° | 47.2 | 49.4 | 50.2 | 47.5 | 47.5 |
| 80° | 32.3 | 35.0 | 33.9 | 32.5 | 32.0 |
| 82.5° | 20.6 | 22.0 | 22.0 | 21.2 | 20.6 |
| 85° | 10.8 | 12.5 | 11.9 | 11.7 | 11.7 |
| 87.5° | 4.1 | 5.7 | 5.7 | 5.4 | 5.2 |
| 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)