

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: P413174

Luminaire Tested: **24PD-30-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-46)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 24PD-30-PC3-L840
Description: 3000 LUMEN 2X4 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

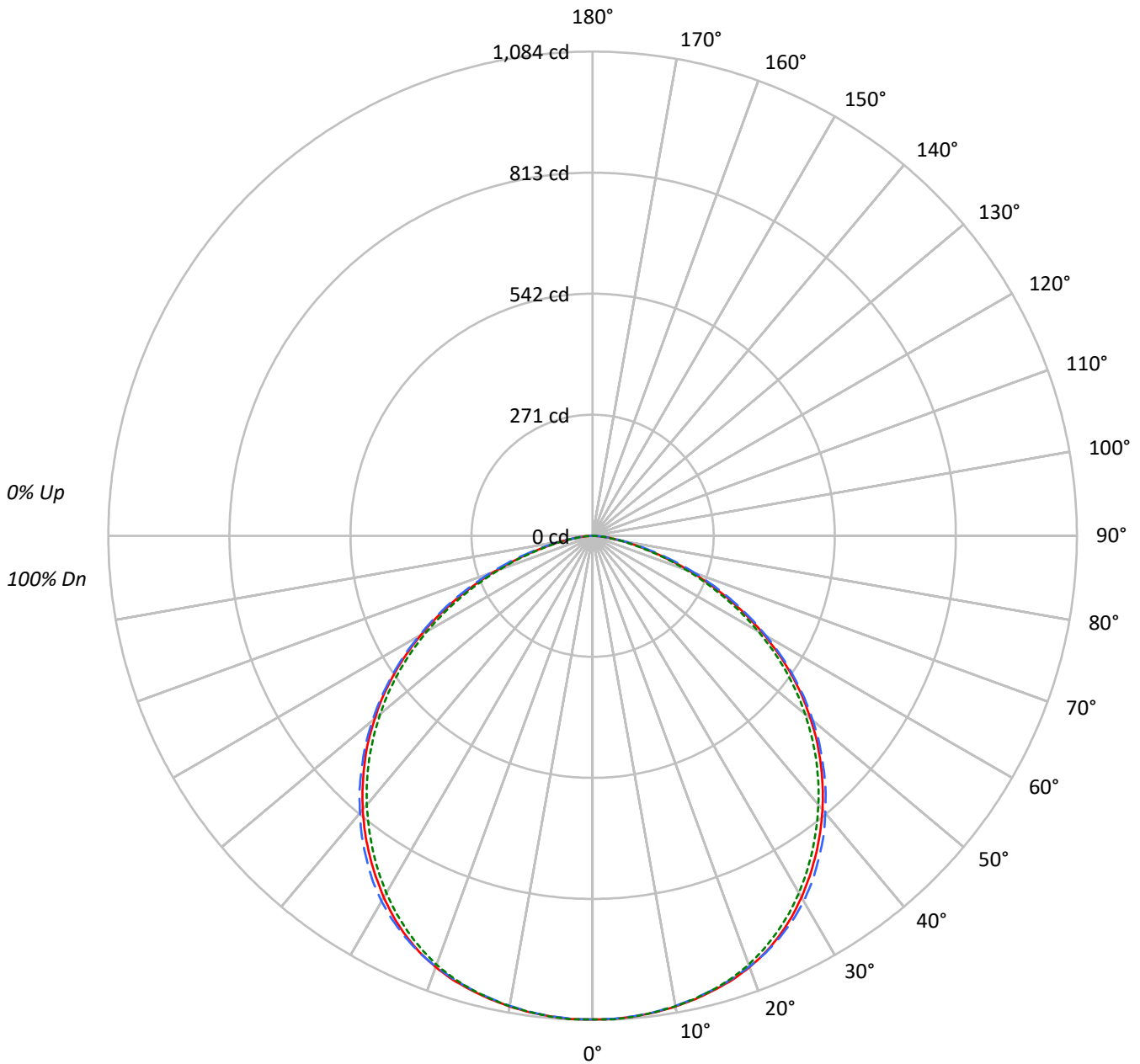
Lumens per Lamp: N/A
Luminaire Lumens: 2960.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.26 / 1.38
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 99 | 96 | 93 | 95 | 92 | 90 | 91 | 89 | 87 | 85 | | | | | | | | | | | | | | | | | | | |
| 2 | 100 | 92 | 86 | 80 | 97 | 90 | 84 | 79 | 87 | 82 | 77 | 83 | 79 | 75 | 80 | 77 | 74 | 72 | | | | | | | | | | | | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 66 | 77 | 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 | 47 | 42 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 8 | 61 | 48 | 40 | 34 | 60 | 47 | 39 | 34 | 46 | 39 | 34 | 45 | 38 | 33 | 44 | 38 | 33 | 31 | | | | | | | | | | | | | | | | | | | |
| 9 | 57 | 44 | 36 | 30 | 56 | 43 | 36 | 30 | 42 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | | | | | | | | | | | | |
| 10 | 54 | 41 | 33 | 28 | 52 | 40 | 33 | 28 | 39 | 32 | 27 | 38 | 32 | 27 | 37 | 31 | 27 | 25 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 1457 | 1457 | 1457 |
| 5° | 1459 | 1458 | 1459 |
| 10° | 1462 | 1460 | 1461 |
| 15° | 1467 | 1464 | 1464 |
| 20° | 1472 | 1469 | 1463 |
| 25° | 1467 | 1473 | 1452 |
| 30° | 1453 | 1468 | 1434 |
| 35° | 1431 | 1450 | 1410 |
| 40° | 1406 | 1423 | 1381 |
| 45° | 1374 | 1389 | 1346 |
| 50° | 1332 | 1347 | 1299 |
| 55° | 1277 | 1289 | 1239 |
| 60° | 1192 | 1206 | 1151 |
| 65° | 1074 | 1101 | 1032 |
| 70° | 912 | 952 | 876 |
| 75° | 706 | 758 | 674 |
| 80° | 525 | 549 | 477 |
| 85° | 324 | 347 | 301 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 102.7 | 3.5 |
| 10°-20° | 297.0 | 10.0 |
| 20°-30° | 454.8 | 15.4 |
| 30°-40° | 547.1 | 18.5 |
| 40°-50° | 557.9 | 18.8 |
| 50°-60° | 483.7 | 16.3 |
| 60°-70° | 335.4 | 11.3 |
| 70°-80° | 153.2 | 5.2 |
| 80°-90° | 28.3 | 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° | 854.5 | 28.9 |
| 0°-40° | 1401.6 | 47.4 |
| 0°-60° | 2443.2 | 82.5 |
| 0°-90° | 2960.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2960.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1083 | 1083 | 1083 | 1083 | 1083 | |
| 5° | 1080 | 1080 | 1080 | 1079 | 1080 | 103 |
| 15° | 1053 | 1053 | 1051 | 1050 | 1051 | 297 |
| 25° | 988 | 991 | 992 | 983 | 978 | 455 |
| 35° | 871 | 881 | 882 | 871 | 858 | 545 |
| 45° | 722 | 731 | 730 | 720 | 707 | 557 |
| 55° | 544 | 548 | 549 | 536 | 528 | 485 |
| 65° | 338 | 345 | 346 | 334 | 324 | 334 |
| 75° | 136 | 143 | 146 | 141 | 130 | 149 |
| 85° | 21 | 22 | 22 | 21 | 20 | 28 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|---------------|---------------|---------------|---------------|---------------|
| 0° | 1082.9 | 1082.9 | 1082.9 | 1082.9 | <i>1082.9</i> |
| 2.5° | <i>1082.9</i> | <i>1082.9</i> | <i>1082.3</i> | <i>1081.7</i> | <i>1083.5</i> |
| 5° | 1080.2 | 1080.2 | 1079.6 | 1079.0 | <i>1080.5</i> |
| 7.5° | 1076.0 | 1075.7 | 1075.1 | 1074.5 | <i>1075.4</i> |
| 10° | 1070.0 | 1069.7 | 1068.5 | 1068.2 | <i>1069.4</i> |
| 12.5° | 1062.5 | 1062.2 | 1060.4 | 1060.4 | <i>1061.3</i> |
| 15° | 1052.9 | 1052.6 | 1050.8 | 1049.9 | <i>1051.1</i> |
| 17.5° | 1042.1 | 1041.8 | 1039.7 | 1037.3 | <i>1037.9</i> |
| 20° | 1027.7 | 1027.7 | 1026.2 | 1022.6 | <i>1021.7</i> |
| 22.5° | 1010.3 | 1011.2 | 1011.2 | 1004.3 | <i>1001.6</i> |
| 25° | 988.4 | 991.1 | 992.0 | 983.3 | <i>978.2</i> |
| 27.5° | 963.5 | 967.7 | 970.1 | 959.0 | <i>952.4</i> |
| 30° | 935.0 | 941.9 | 944.9 | 932.9 | <i>923.3</i> |
| 32.5° | 903.8 | 912.5 | 916.1 | 904.4 | <i>892.1</i> |
| 35° | 871.4 | 880.7 | 882.5 | 871.1 | <i>858.2</i> |
| 37.5° | 836.9 | 846.5 | 848.9 | 838.7 | <i>822.8</i> |
| 40° | 800.6 | 810.2 | 810.2 | 801.8 | <i>786.2</i> |
| 42.5° | 762.2 | 772.4 | 772.1 | 761.9 | <i>747.8</i> |
| 45° | 722.3 | 731.3 | 730.1 | 720.2 | <i>707.3</i> |
| 47.5° | 681.2 | 686.9 | 688.4 | 676.7 | <i>664.5</i> |
| 50° | 636.3 | 642.0 | 643.5 | 630.3 | <i>620.7</i> |
| 52.5° | 591.9 | 595.5 | 597.6 | 582.3 | <i>575.4</i> |
| 55° | 544.5 | 547.8 | 549.3 | 535.8 | <i>528.3</i> |
| 57.5° | 494.4 | 498.6 | 500.4 | 486.9 | <i>478.5</i> |
| 60° | 443.1 | 447.6 | 448.2 | 435.6 | <i>427.8</i> |
| 62.5° | 390.9 | 396.9 | 398.1 | 385.5 | <i>376.2</i> |
| 65° | 337.5 | 344.7 | 345.9 | 334.2 | <i>324.3</i> |
| 67.5° | 284.1 | 293.7 | 294.0 | 284.4 | <i>272.7</i> |
| 70° | 231.9 | 242.4 | 242.1 | 234.0 | <i>222.6</i> |
| 72.5° | 182.1 | 191.7 | 193.8 | 186.3 | <i>175.2</i> |
| 75° | 135.9 | 143.4 | 145.8 | 141.0 | <i>129.6</i> |
| 77.5° | 96.6 | 103.5 | 105.6 | 101.1 | <i>92.7</i> |
| 80° | 67.8 | 68.1 | 70.8 | 67.2 | <i>61.5</i> |
| 82.5° | 42.0 | 41.4 | 42.3 | 40.8 | <i>37.5</i> |
| 85° | 21.0 | 21.6 | 22.5 | 21.3 | <i>19.5</i> |
| 87.5° | 7.2 | 7.5 | 8.1 | 8.1 | <i>7.2</i> |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | <i>0.0</i> |



Report Generated By 670246072 / DESKTOP-MV3F9LC





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







(END OF REPORT)