

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: P412650

Luminaire Tested: **14PD-40-PP3-L830**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412650
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-40-PP3-L830
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 80 CRI, 3000 CCT LEDS
Light Source: -
Ballast/Driver: -

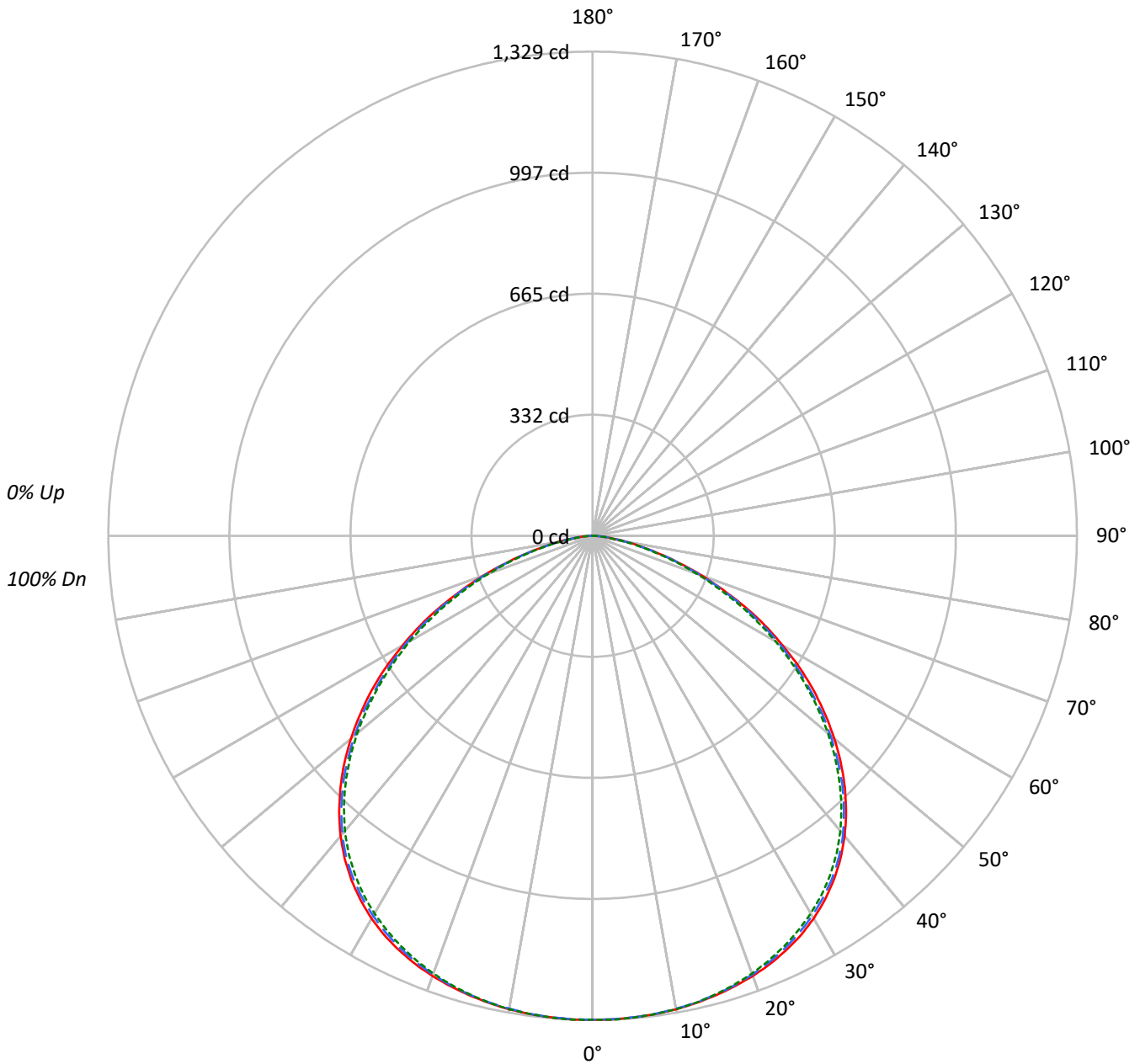
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3865.0 lumens
Efficiency: N/A
Efficacy: 102.2 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): 37.8
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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CATALOG NUMBER: 14PD-40-PP3-L830

Luminous Intensity Polar Plot





TEST NUMBER: P412650

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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 | 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° | 3574 | 3574 | 3574 |
| 5° | 3584 | 3583 | 3585 |
| 10° | 3606 | 3602 | 3605 |
| 15° | 3638 | 3633 | 3631 |
| 20° | 3682 | 3670 | 3661 |
| 25° | 3728 | 3709 | 3692 |
| 30° | 3770 | 3743 | 3719 |
| 35° | 3790 | 3767 | 3733 |
| 40° | 3780 | 3757 | 3715 |
| 45° | 3726 | 3690 | 3648 |
| 50° | 3624 | 3566 | 3528 |
| 55° | 3474 | 3391 | 3347 |
| 60° | 3237 | 3181 | 3116 |
| 65° | 2934 | 2875 | 2791 |
| 70° | 2504 | 2459 | 2379 |
| 75° | 1956 | 1936 | 1843 |
| 80° | 1443 | 1382 | 1305 |
| 85° | 871 | 871 | 812 |



TEST NUMBER: P412650

CATALOG NUMBER: 14PD-40-PP3-L830

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.4 | 3.3 |
| 10°-20° | 368.8 | 9.5 |
| 20°-30° | 576.4 | 14.9 |
| 30°-40° | 716.3 | 18.5 |
| 40°-50° | 746.4 | 19.3 |
| 50°-60° | 647.7 | 16.8 |
| 60°-70° | 445.3 | 11.5 |
| 70°-80° | 201.0 | 5.2 |
| 80°-90° | 36.8 | 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° | 1071.5 | 27.7 |
| 0°-40° | 1787.9 | 46.3 |
| 0°-60° | 3181.9 | 82.3 |
| 0°-90° | 3865.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3865.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1328 | 1328 | 1328 | 1328 | 1328 | |
| 5° | 1327 | 1327 | 1326 | 1325 | 1327 | 126 |
| 15° | 1306 | 1306 | 1304 | 1303 | 1303 | 369 |
| 25° | 1256 | 1255 | 1249 | 1244 | 1243 | 579 |
| 35° | 1154 | 1154 | 1147 | 1140 | 1136 | 721 |
| 45° | 979 | 980 | 970 | 962 | 959 | 754 |
| 55° | 740 | 736 | 723 | 714 | 713 | 660 |
| 65° | 461 | 459 | 452 | 441 | 438 | 455 |
| 75° | 188 | 189 | 186 | 181 | 177 | 205 |
| 85° | 28 | 28 | 28 | 28 | 26 | 38 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412650

CATALOG NUMBER: 14PD-40-PP3-L830

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1328.3 | 1328.3 | 1328.3 | 1328.3 | 1328.3 |
| 2.5° | 1328.7 | 1328.7 | 1327.9 | 1326.7 | 1329.4 |
| 5° | 1326.7 | 1327.1 | 1326.4 | 1325.2 | 1327.1 |
| 7.5° | 1324.0 | 1324.4 | 1323.3 | 1322.1 | 1323.7 |
| 10° | 1319.8 | 1319.4 | 1318.2 | 1317.5 | 1319.4 |
| 12.5° | 1313.6 | 1313.2 | 1312.1 | 1311.3 | 1312.8 |
| 15° | 1305.9 | 1305.9 | 1304.0 | 1302.8 | 1303.2 |
| 17.5° | 1296.6 | 1296.6 | 1293.9 | 1291.2 | 1292.0 |
| 20° | 1285.8 | 1285.4 | 1281.6 | 1278.8 | 1278.5 |
| 22.5° | 1272.3 | 1272.3 | 1266.9 | 1263.4 | 1262.2 |
| 25° | 1255.7 | 1255.3 | 1249.1 | 1244.1 | 1243.3 |
| 27.5° | 1236.7 | 1236.0 | 1228.6 | 1223.6 | 1221.7 |
| 30° | 1213.2 | 1212.4 | 1204.7 | 1199.3 | 1197.0 |
| 32.5° | 1185.4 | 1186.5 | 1177.7 | 1171.5 | 1169.2 |
| 35° | 1153.7 | 1153.7 | 1146.8 | 1140.2 | 1136.3 |
| 37.5° | 1117.4 | 1117.4 | 1110.8 | 1104.3 | 1099.6 |
| 40° | 1076.1 | 1076.5 | 1069.5 | 1061.4 | 1057.5 |
| 42.5° | 1029.7 | 1030.5 | 1021.2 | 1014.7 | 1010.4 |
| 45° | 979.1 | 979.5 | 969.5 | 962.1 | 958.7 |
| 47.5° | 924.3 | 923.5 | 912.3 | 906.1 | 902.6 |
| 50° | 865.6 | 864.0 | 851.7 | 845.9 | 842.8 |
| 52.5° | 804.2 | 801.1 | 790.3 | 781.8 | 779.1 |
| 55° | 740.4 | 736.2 | 722.7 | 714.2 | 713.4 |
| 57.5° | 674.0 | 669.0 | 657.8 | 649.7 | 646.6 |
| 60° | 601.4 | 600.2 | 591.0 | 581.3 | 579.0 |
| 62.5° | 533.4 | 529.9 | 521.8 | 510.2 | 509.1 |
| 65° | 460.8 | 458.9 | 451.5 | 440.7 | 438.4 |
| 67.5° | 385.9 | 387.8 | 381.6 | 372.0 | 368.9 |
| 70° | 318.3 | 319.4 | 312.5 | 303.6 | 302.4 |
| 72.5° | 250.3 | 252.2 | 246.4 | 240.6 | 239.5 |
| 75° | 188.1 | 188.9 | 186.2 | 181.1 | 177.3 |
| 77.5° | 133.6 | 136.3 | 133.3 | 129.8 | 126.7 |
| 80° | 93.1 | 88.8 | 89.2 | 87.7 | 84.2 |
| 82.5° | 56.0 | 54.1 | 53.7 | 52.1 | 50.6 |
| 85° | 28.2 | 27.8 | 28.2 | 27.8 | 26.3 |
| 87.5° | 9.3 | 10.0 | 10.4 | 10.4 | 9.7 |
| 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)