

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: P412397

Luminaire Tested: **22PD-40-PB1-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-14)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-40-PB1-L950
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH BEVEL PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

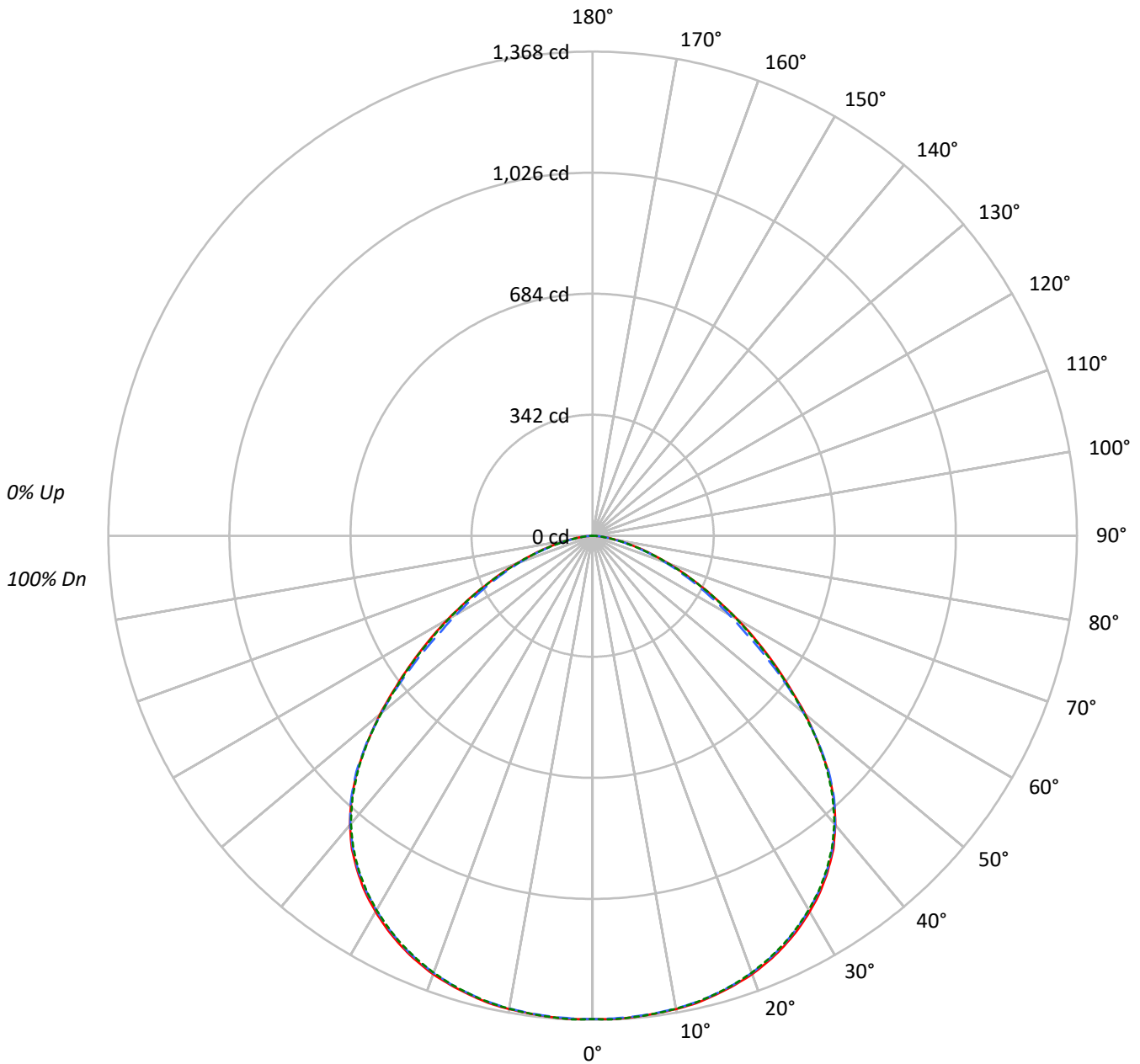
Lumens per Lamp: N/A
Luminaire Lumens: 3585.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.33 / 1.32 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.6
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: 22PD-40-PB1-L950

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 | | | |
| 1 | 110 | 106 | 102 | 98 | 107 | 103 | 100 | 97 | 99 | 96 | 94 | 95 | 93 | 91 | 92 | 90 | 88 | 86 | | | |
| 2 | 101 | 93 | 87 | 82 | 98 | 91 | 86 | 81 | 88 | 83 | 79 | 85 | 81 | 77 | 82 | 78 | 76 | 73 | | | |
| 3 | 92 | 83 | 75 | 69 | 90 | 81 | 74 | 68 | 78 | 72 | 67 | 76 | 70 | 66 | 73 | 69 | 65 | 63 | | | |
| 4 | 85 | 74 | 65 | 59 | 83 | 72 | 65 | 59 | 70 | 63 | 58 | 68 | 62 | 57 | 66 | 61 | 56 | 54 | | | |
| 5 | 78 | 66 | 58 | 51 | 76 | 65 | 57 | 51 | 63 | 56 | 50 | 61 | 55 | 50 | 59 | 54 | 49 | 47 | | | |
| 6 | 72 | 60 | 51 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 44 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | |
| 7 | 67 | 54 | 46 | 40 | 66 | 53 | 45 | 40 | 52 | 45 | 39 | 51 | 44 | 39 | 49 | 43 | 39 | 37 | | | |
| 8 | 63 | 50 | 41 | 36 | 61 | 49 | 41 | 36 | 48 | 40 | 35 | 46 | 40 | 35 | 45 | 39 | 35 | 33 | | | |
| 9 | 59 | 46 | 38 | 32 | 57 | 45 | 37 | 32 | 44 | 37 | 32 | 43 | 36 | 32 | 42 | 36 | 32 | 30 | | | |
| 10 | 55 | 42 | 34 | 29 | 54 | 41 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 29 | 39 | 33 | 29 | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3675 | 3675 | 3675 |
| 5° | 3686 | 3683 | 3687 |
| 10° | 3710 | 3706 | 3708 |
| 15° | 3741 | 3735 | 3735 |
| 20° | 3775 | 3764 | 3762 |
| 25° | 3799 | 3787 | 3784 |
| 30° | 3811 | 3796 | 3793 |
| 35° | 3803 | 3792 | 3785 |
| 40° | 3747 | 3742 | 3730 |
| 45° | 3582 | 3593 | 3565 |
| 50° | 3279 | 3261 | 3258 |
| 55° | 2914 | 2811 | 2894 |
| 60° | 2541 | 2386 | 2525 |
| 65° | 2153 | 2038 | 2143 |
| 70° | 1781 | 1707 | 1764 |
| 75° | 1440 | 1347 | 1383 |
| 80° | 1040 | 1007 | 1001 |
| 85° | 679 | 679 | 651 |



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CATALOG NUMBER: 22PD-40-PB1-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 129.9 | 3.6 |
| 10°-20° | 378.9 | 10.6 |
| 20°-30° | 588.0 | 16.4 |
| 30°-40° | 721.1 | 20.1 |
| 40°-50° | 720.8 | 20.1 |
| 50°-60° | 546.0 | 15.2 |
| 60°-70° | 327.5 | 9.1 |
| 70°-80° | 144.2 | 4.0 |
| 80°-90° | 28.6 | 0.8 |
| 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° | 1096.9 | 30.6 |
| 0°-40° | 1818.0 | 50.7 |
| 0°-60° | 3084.8 | 86.0 |
| 0°-90° | 3585.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3585.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1366 | 1366 | 1366 | 1366 | 1366 | |
| 5° | 1365 | 1363 | 1363 | 1363 | 1365 | 130 |
| 15° | 1343 | 1342 | 1341 | 1340 | 1341 | 380 |
| 25° | 1279 | 1277 | 1276 | 1274 | 1274 | 590 |
| 35° | 1158 | 1157 | 1154 | 1154 | 1152 | 723 |
| 45° | 941 | 942 | 944 | 942 | 937 | 721 |
| 55° | 621 | 608 | 599 | 607 | 617 | 557 |
| 65° | 338 | 326 | 320 | 326 | 336 | 338 |
| 75° | 138 | 136 | 130 | 132 | 133 | 148 |
| 85° | 22 | 23 | 22 | 21 | 21 | 29 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 22PD-40-PB1-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1365.5 | 1365.5 | 1365.5 | 1365.5 | 1365.5 |
| 2.5° | 1366.8 | 1364.7 | 1365.1 | 1365.1 | 1367.6 |
| 5° | 1364.7 | 1363.0 | 1363.4 | 1363.0 | 1365.1 |
| 7.5° | 1361.7 | 1360.0 | 1360.5 | 1360.0 | 1361.3 |
| 10° | 1357.9 | 1356.2 | 1356.2 | 1355.4 | 1357.1 |
| 12.5° | 1352.9 | 1350.7 | 1349.9 | 1349.5 | 1350.7 |
| 15° | 1342.7 | 1341.5 | 1340.6 | 1339.8 | 1340.6 |
| 17.5° | 1331.7 | 1329.6 | 1328.8 | 1327.1 | 1328.8 |
| 20° | 1318.2 | 1315.3 | 1314.4 | 1313.2 | 1313.6 |
| 22.5° | 1300.5 | 1298.0 | 1296.7 | 1294.6 | 1295.4 |
| 25° | 1279.4 | 1276.9 | 1275.6 | 1273.5 | 1274.3 |
| 27.5° | 1254.9 | 1253.2 | 1250.3 | 1248.6 | 1249.0 |
| 30° | 1226.6 | 1224.9 | 1221.5 | 1220.7 | 1220.7 |
| 32.5° | 1195.4 | 1193.2 | 1190.3 | 1189.4 | 1189.0 |
| 35° | 1157.8 | 1157.4 | 1154.4 | 1153.6 | 1152.3 |
| 37.5° | 1116.8 | 1116.0 | 1112.6 | 1111.8 | 1110.5 |
| 40° | 1066.6 | 1065.7 | 1065.3 | 1063.6 | 1061.9 |
| 42.5° | 1008.3 | 1009.6 | 1010.4 | 1007.0 | 1003.7 |
| 45° | 941.2 | 942.4 | 944.1 | 941.6 | 936.9 |
| 47.5° | 862.6 | 867.7 | 865.2 | 866.9 | 862.2 |
| 50° | 783.3 | 783.3 | 779.0 | 780.7 | 778.2 |
| 52.5° | 700.1 | 693.3 | 688.3 | 691.6 | 695.0 |
| 55° | 621.1 | 607.6 | 599.2 | 607.2 | 616.9 |
| 57.5° | 545.5 | 529.5 | 513.9 | 526.5 | 538.4 |
| 60° | 472.1 | 453.5 | 443.4 | 452.6 | 469.1 |
| 62.5° | 402.4 | 388.9 | 378.7 | 385.9 | 399.9 |
| 65° | 338.2 | 326.4 | 320.1 | 325.5 | 336.5 |
| 67.5° | 279.5 | 271.5 | 265.2 | 269.8 | 278.3 |
| 70° | 226.3 | 224.2 | 217.0 | 219.1 | 224.2 |
| 72.5° | 177.8 | 177.3 | 171.0 | 172.7 | 175.7 |
| 75° | 138.5 | 135.5 | 129.6 | 131.7 | 133.0 |
| 77.5° | 98.0 | 99.2 | 93.7 | 95.0 | 95.0 |
| 80° | 67.1 | 69.2 | 65.0 | 64.2 | 64.6 |
| 82.5° | 42.6 | 42.6 | 42.2 | 41.8 | 40.5 |
| 85° | 22.0 | 22.8 | 22.0 | 21.1 | 21.1 |
| 87.5° | 8.4 | 8.4 | 8.4 | 8.0 | 7.6 |
| 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)