

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: P412658

Luminaire Tested: **14PD-40-PP3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P412658
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-L950
Description: 4000 LUMEN 1X4 PERCEIVE LED TROFFER WITH PRISM PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

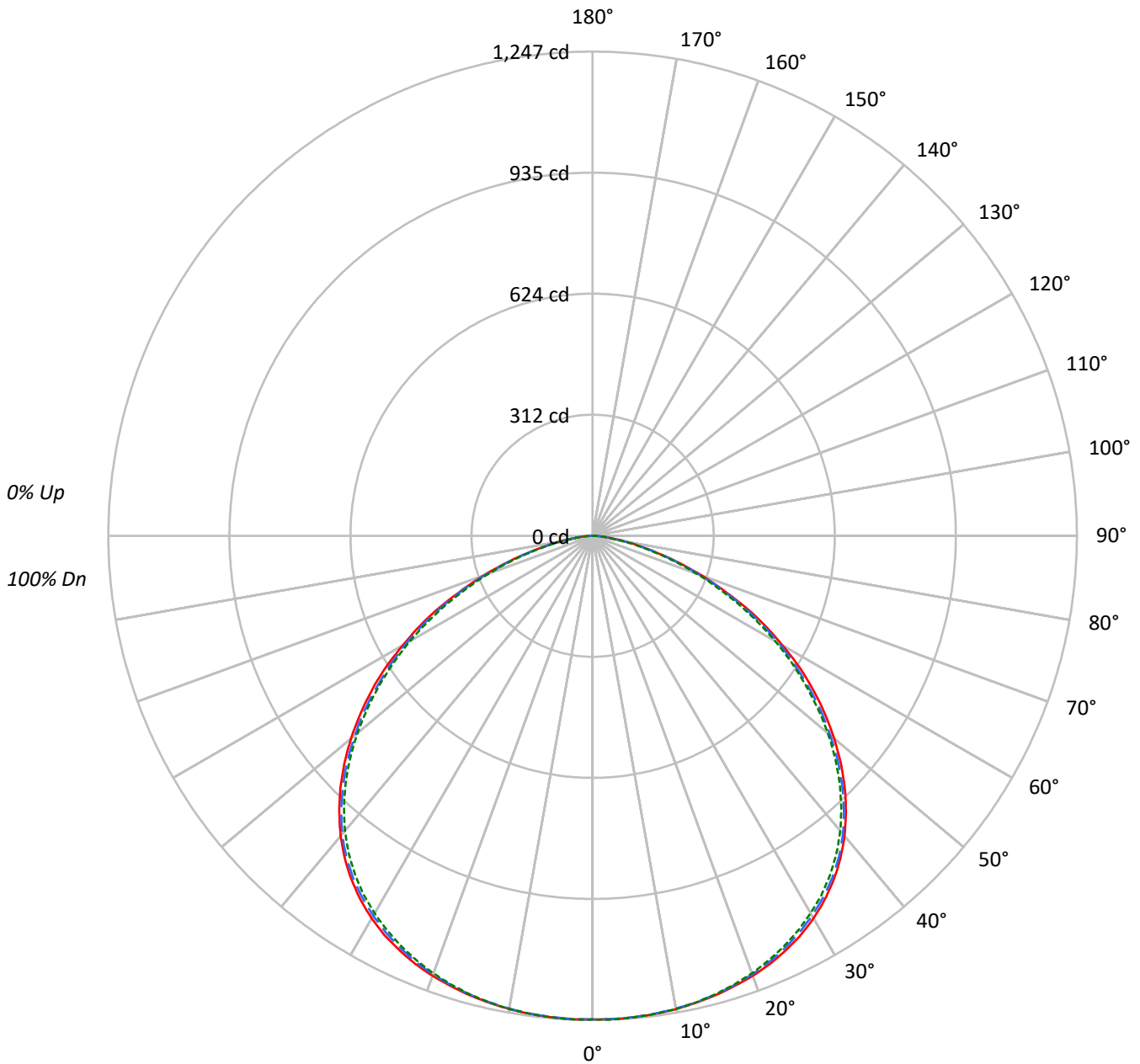
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3625.0 lumens
Efficiency: N/A
Efficacy: 95.9 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-L950

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 | 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° | 3352 | 3352 | 3352 |
| 5° | 3361 | 3360 | 3362 |
| 10° | 3382 | 3378 | 3381 |
| 15° | 3412 | 3407 | 3405 |
| 20° | 3454 | 3442 | 3434 |
| 25° | 3497 | 3478 | 3462 |
| 30° | 3536 | 3511 | 3488 |
| 35° | 3555 | 3533 | 3501 |
| 40° | 3545 | 3524 | 3484 |
| 45° | 3495 | 3460 | 3422 |
| 50° | 3399 | 3344 | 3309 |
| 55° | 3258 | 3180 | 3139 |
| 60° | 3035 | 2983 | 2922 |
| 65° | 2752 | 2697 | 2618 |
| 70° | 2349 | 2306 | 2231 |
| 75° | 1834 | 1815 | 1729 |
| 80° | 1353 | 1297 | 1224 |
| 85° | 815 | 815 | 760 |



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CATALOG NUMBER: 14PD-40-PP3-L950

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 118.5 | 3.3 |
| 10°-20° | 345.9 | 9.5 |
| 20°-30° | 540.6 | 14.9 |
| 30°-40° | 671.9 | 18.5 |
| 40°-50° | 700.0 | 19.3 |
| 50°-60° | 607.4 | 16.8 |
| 60°-70° | 417.7 | 11.5 |
| 70°-80° | 188.5 | 5.2 |
| 80°-90° | 34.5 | 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° | 1005.0 | 27.7 |
| 0°-40° | 1676.8 | 46.3 |
| 0°-60° | 2984.3 | 82.3 |
| 0°-90° | 3625.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3625.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1246 | 1246 | 1246 | 1246 | 1246 | |
| 5° | 1244 | 1245 | 1244 | 1243 | 1245 | 119 |
| 15° | 1225 | 1225 | 1223 | 1222 | 1222 | 346 |
| 25° | 1178 | 1177 | 1172 | 1167 | 1166 | 543 |
| 35° | 1082 | 1082 | 1076 | 1069 | 1066 | 676 |
| 45° | 918 | 919 | 909 | 902 | 899 | 707 |
| 55° | 694 | 690 | 678 | 670 | 669 | 619 |
| 65° | 432 | 430 | 424 | 413 | 411 | 427 |
| 75° | 176 | 177 | 175 | 170 | 166 | 192 |
| 85° | 26 | 26 | 26 | 26 | 25 | 36 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P412658

CATALOG NUMBER: 14PD-40-PP3-L950

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1245.8 | 1245.8 | 1245.8 | 1245.8 | 1245.8 |
| 2.5° | 1246.2 | 1246.2 | 1245.4 | 1244.4 | 1246.9 |
| 5° | 1244.4 | 1244.7 | 1244.0 | 1242.9 | 1244.7 |
| 7.5° | 1241.8 | 1242.2 | 1241.1 | 1240.0 | 1241.5 |
| 10° | 1237.8 | 1237.5 | 1236.4 | 1235.7 | 1237.5 |
| 12.5° | 1232.0 | 1231.7 | 1230.6 | 1229.9 | 1231.3 |
| 15° | 1224.8 | 1224.8 | 1223.0 | 1221.9 | 1222.3 |
| 17.5° | 1216.1 | 1216.1 | 1213.6 | 1211.0 | 1211.8 |
| 20° | 1206.0 | 1205.6 | 1202.0 | 1199.4 | 1199.1 |
| 22.5° | 1193.3 | 1193.3 | 1188.2 | 1184.9 | 1183.9 |
| 25° | 1177.7 | 1177.3 | 1171.5 | 1166.8 | 1166.1 |
| 27.5° | 1160.0 | 1159.2 | 1152.3 | 1147.6 | 1145.8 |
| 30° | 1137.9 | 1137.1 | 1129.9 | 1124.8 | 1122.6 |
| 32.5° | 1111.8 | 1112.9 | 1104.5 | 1098.7 | 1096.6 |
| 35° | 1082.1 | 1082.1 | 1075.5 | 1069.4 | 1065.8 |
| 37.5° | 1048.0 | 1048.0 | 1041.9 | 1035.7 | 1031.3 |
| 40° | 1009.3 | 1009.6 | 1003.1 | 995.5 | 991.9 |
| 42.5° | 965.8 | 966.5 | 957.8 | 951.7 | 947.7 |
| 45° | 918.3 | 918.7 | 909.3 | 902.4 | 899.1 |
| 47.5° | 866.9 | 866.2 | 855.7 | 849.9 | 846.6 |
| 50° | 811.8 | 810.4 | 798.8 | 793.3 | 790.4 |
| 52.5° | 754.2 | 751.3 | 741.2 | 733.2 | 730.7 |
| 55° | 694.4 | 690.5 | 677.8 | 669.8 | 669.1 |
| 57.5° | 632.1 | 627.4 | 616.9 | 609.3 | 606.4 |
| 60° | 564.0 | 562.9 | 554.3 | 545.2 | 543.0 |
| 62.5° | 500.3 | 497.0 | 489.4 | 478.5 | 477.5 |
| 65° | 432.2 | 430.4 | 423.5 | 413.3 | 411.2 |
| 67.5° | 361.9 | 363.7 | 357.9 | 348.9 | 346.0 |
| 70° | 298.5 | 299.6 | 293.1 | 284.7 | 283.6 |
| 72.5° | 234.7 | 236.6 | 231.1 | 225.7 | 224.6 |
| 75° | 176.4 | 177.1 | 174.6 | 169.9 | 166.3 |
| 77.5° | 125.3 | 127.9 | 125.0 | 121.7 | 118.8 |
| 80° | 87.3 | 83.3 | 83.7 | 82.2 | 79.0 |
| 82.5° | 52.5 | 50.7 | 50.4 | 48.9 | 47.5 |
| 85° | 26.4 | 26.1 | 26.4 | 26.1 | 24.6 |
| 87.5° | 8.7 | 9.4 | 9.8 | 9.8 | 9.1 |
| 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)