

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: P413081

Luminaire Tested: **22PD-40-PC3-L950**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2008-911-15)
Test Lab: INNOVATION CENTER
Issue Date: 9/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: 22PD-40-PC3-L950
Description: 4000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND 90 CRI, 5000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

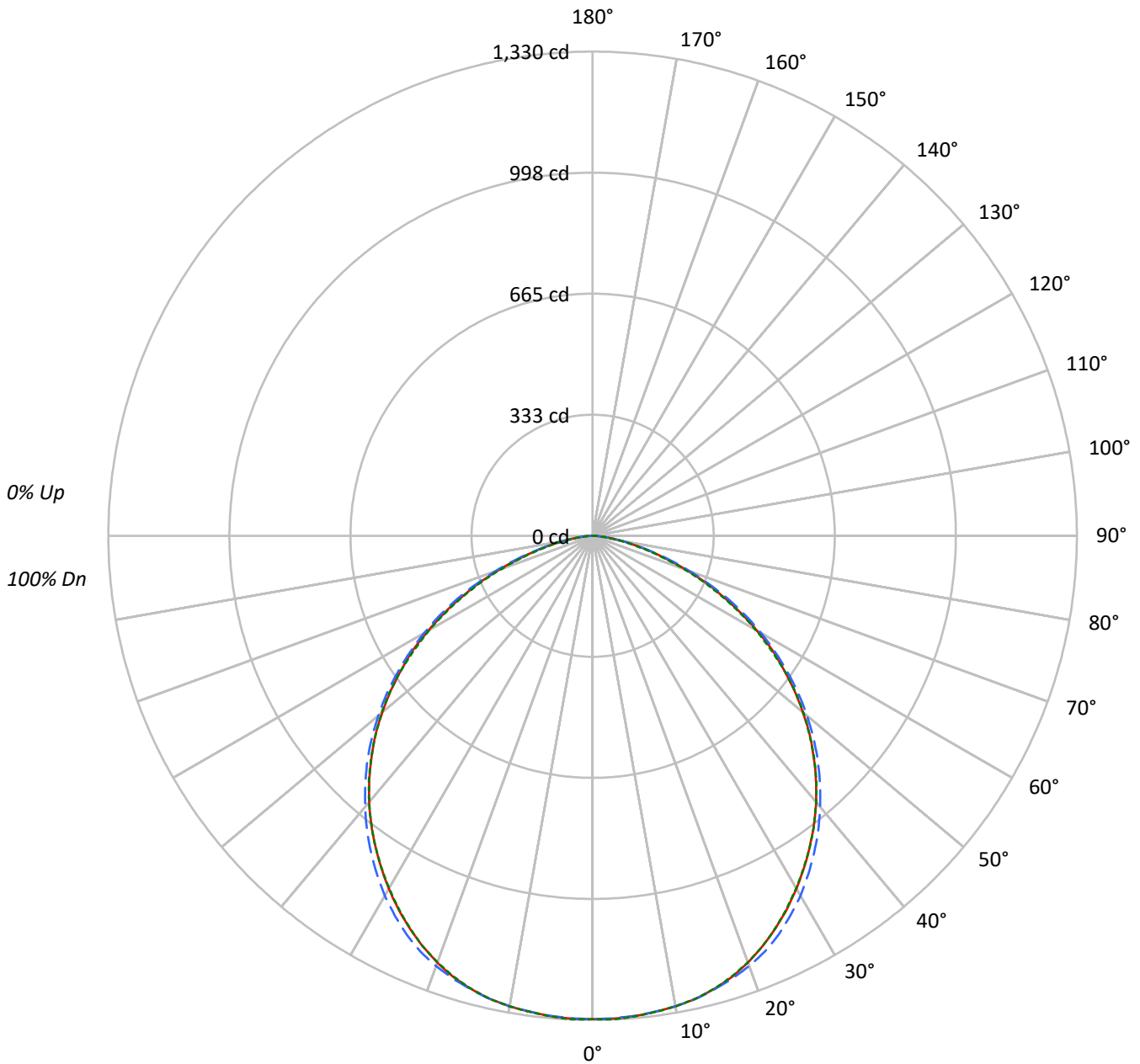
Lumens per Lamp: N/A
Luminaire Lumens: 3567.0 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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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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 | 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 | 76 | 80 | 77 | 74 | 72 | | | | | | | | |
| 3 | 91 | 81 | 73 | 67 | 89 | 80 | 72 | 67 | 77 | 70 | 65 | 74 | 69 | 64 | 71 | 67 | 63 | 61 | | | | | | | | |
| 4 | 84 | 72 | 64 | 57 | 82 | 71 | 63 | 57 | 68 | 61 | 56 | 66 | 60 | 55 | 64 | 59 | 54 | 52 | | | | | | | | |
| 5 | 77 | 65 | 56 | 49 | 75 | 63 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 52 | 47 | 45 | | | | | | | | |
| 6 | 71 | 58 | 49 | 43 | 69 | 57 | 49 | 43 | 55 | 48 | 43 | 54 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | | | | |
| 7 | 66 | 53 | 44 | 38 | 64 | 52 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 37 | 48 | 42 | 37 | 35 | | | | | | | | |
| 8 | 62 | 48 | 40 | 34 | 60 | 48 | 40 | 34 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 31 | | | | | | | | |
| 9 | 58 | 44 | 36 | 31 | 56 | 44 | 36 | 31 | 43 | 35 | 30 | 41 | 35 | 30 | 40 | 34 | 30 | 28 | | | | | | | | |
| 10 | 54 | 41 | 33 | 28 | 53 | 40 | 33 | 28 | 39 | 32 | 28 | 38 | 32 | 28 | 38 | 32 | 27 | 26 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|------|------|------|
| 0° | 3573 | 3573 | 3573 |
| 5° | 3578 | 3575 | 3580 |
| 10° | 3587 | 3585 | 3587 |
| 15° | 3591 | 3595 | 3590 |
| 20° | 3572 | 3602 | 3570 |
| 25° | 3531 | 3589 | 3529 |
| 30° | 3479 | 3547 | 3474 |
| 35° | 3418 | 3486 | 3418 |
| 40° | 3354 | 3414 | 3354 |
| 45° | 3266 | 3330 | 3271 |
| 50° | 3154 | 3216 | 3167 |
| 55° | 3008 | 3067 | 3008 |
| 60° | 2805 | 2875 | 2787 |
| 65° | 2517 | 2606 | 2485 |
| 70° | 2153 | 2230 | 2090 |
| 75° | 1708 | 1756 | 1620 |
| 80° | 1224 | 1269 | 1165 |
| 85° | 809 | 834 | 756 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.0 | 3.5 |
| 10°-20° | 363.9 | 10.2 |
| 20°-30° | 552.1 | 15.5 |
| 30°-40° | 659.3 | 18.5 |
| 40°-50° | 670.5 | 18.8 |
| 50°-60° | 580.0 | 16.3 |
| 60°-70° | 399.1 | 11.2 |
| 70°-80° | 181.1 | 5.1 |
| 80°-90° | 35.1 | 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° | 1041.9 | 29.2 |
| 0°-40° | 1701.2 | 47.7 |
| 0°-60° | 2951.7 | 82.8 |
| 0°-90° | 3567.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3567.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1328 | 1328 | 1328 | 1328 | 1328 | |
| 5° | 1324 | 1323 | 1324 | 1324 | 1325 | 126 |
| 15° | 1289 | 1290 | 1291 | 1288 | 1288 | 364 |
| 25° | 1189 | 1200 | 1209 | 1198 | 1188 | 548 |
| 35° | 1041 | 1059 | 1061 | 1058 | 1041 | 651 |
| 45° | 858 | 874 | 875 | 874 | 859 | 662 |
| 55° | 641 | 652 | 654 | 652 | 641 | 573 |
| 65° | 395 | 406 | 409 | 406 | 390 | 392 |
| 75° | 164 | 171 | 169 | 167 | 156 | 177 |
| 85° | 26 | 28 | 27 | 26 | 24 | 34 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 1327.8 | 1327.8 | 1327.8 | 1327.8 | 1327.8 |
| 2.5° | 1327.8 | 1326.1 | 1326.5 | 1326.9 | 1329.5 |
| 5° | 1324.4 | 1323.1 | 1323.6 | 1323.6 | 1325.2 |
| 7.5° | 1318.9 | 1318.5 | 1318.5 | 1318.1 | 1319.3 |
| 10° | 1312.6 | 1311.7 | 1312.1 | 1311.7 | 1312.6 |
| 12.5° | 1302.9 | 1302.9 | 1303.3 | 1302.0 | 1302.9 |
| 15° | 1288.9 | 1289.8 | 1290.6 | 1288.5 | 1288.5 |
| 17.5° | 1271.2 | 1273.3 | 1275.4 | 1271.6 | 1269.5 |
| 20° | 1247.5 | 1252.6 | 1257.7 | 1251.8 | 1246.7 |
| 22.5° | 1220.1 | 1228.5 | 1236.1 | 1226.8 | 1220.1 |
| 25° | 1189.3 | 1199.8 | 1208.7 | 1197.7 | 1188.4 |
| 27.5° | 1155.9 | 1167.7 | 1176.2 | 1166.9 | 1154.2 |
| 30° | 1119.6 | 1133.9 | 1141.5 | 1132.7 | 1117.9 |
| 32.5° | 1080.7 | 1097.6 | 1102.3 | 1096.8 | 1079.9 |
| 35° | 1040.6 | 1059.2 | 1061.3 | 1057.5 | 1040.6 |
| 37.5° | 998.8 | 1016.5 | 1018.2 | 1016.1 | 998.8 |
| 40° | 954.9 | 971.3 | 971.8 | 971.8 | 954.9 |
| 42.5° | 908.0 | 924.0 | 924.0 | 923.6 | 909.3 |
| 45° | 858.2 | 873.8 | 875.0 | 874.2 | 859.4 |
| 47.5° | 808.7 | 820.6 | 822.7 | 821.0 | 807.9 |
| 50° | 753.4 | 765.7 | 768.2 | 766.5 | 756.4 |
| 52.5° | 698.5 | 709.9 | 712.5 | 711.2 | 699.8 |
| 55° | 641.1 | 652.1 | 653.8 | 652.5 | 641.1 |
| 57.5° | 585.8 | 592.9 | 594.6 | 592.1 | 577.7 |
| 60° | 521.1 | 531.3 | 534.2 | 531.3 | 517.8 |
| 62.5° | 458.6 | 469.6 | 472.2 | 467.9 | 453.6 |
| 65° | 395.3 | 406.3 | 409.2 | 405.8 | 390.2 |
| 67.5° | 335.3 | 343.3 | 345.9 | 342.1 | 327.7 |
| 70° | 273.7 | 283.8 | 283.4 | 278.3 | 265.6 |
| 72.5° | 212.8 | 226.8 | 224.3 | 221.3 | 207.4 |
| 75° | 164.3 | 170.6 | 168.9 | 167.2 | 155.8 |
| 77.5° | 117.4 | 125.0 | 120.8 | 121.2 | 111.5 |
| 80° | 79.0 | 86.2 | 81.9 | 80.2 | 75.2 |
| 82.5° | 50.3 | 53.2 | 52.4 | 51.5 | 46.9 |
| 85° | 26.2 | 27.9 | 27.0 | 26.2 | 24.5 |
| 87.5° | 10.1 | 11.0 | 10.1 | 10.1 | 9.3 |
| 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)