

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: P413111

Luminaire Tested: **22PD-60-PC3-L840**

Issue Date: 9/15/2020



Test Information

Test Method: LM-79-08
Report Number: P413111
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-60-PC3-L840
Description: 6000 LUMEN 2X2 PERCEIVE LED TROFFER WITH PYRAMID PATTERN OPTICS AND
80 CRI, 4000 CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

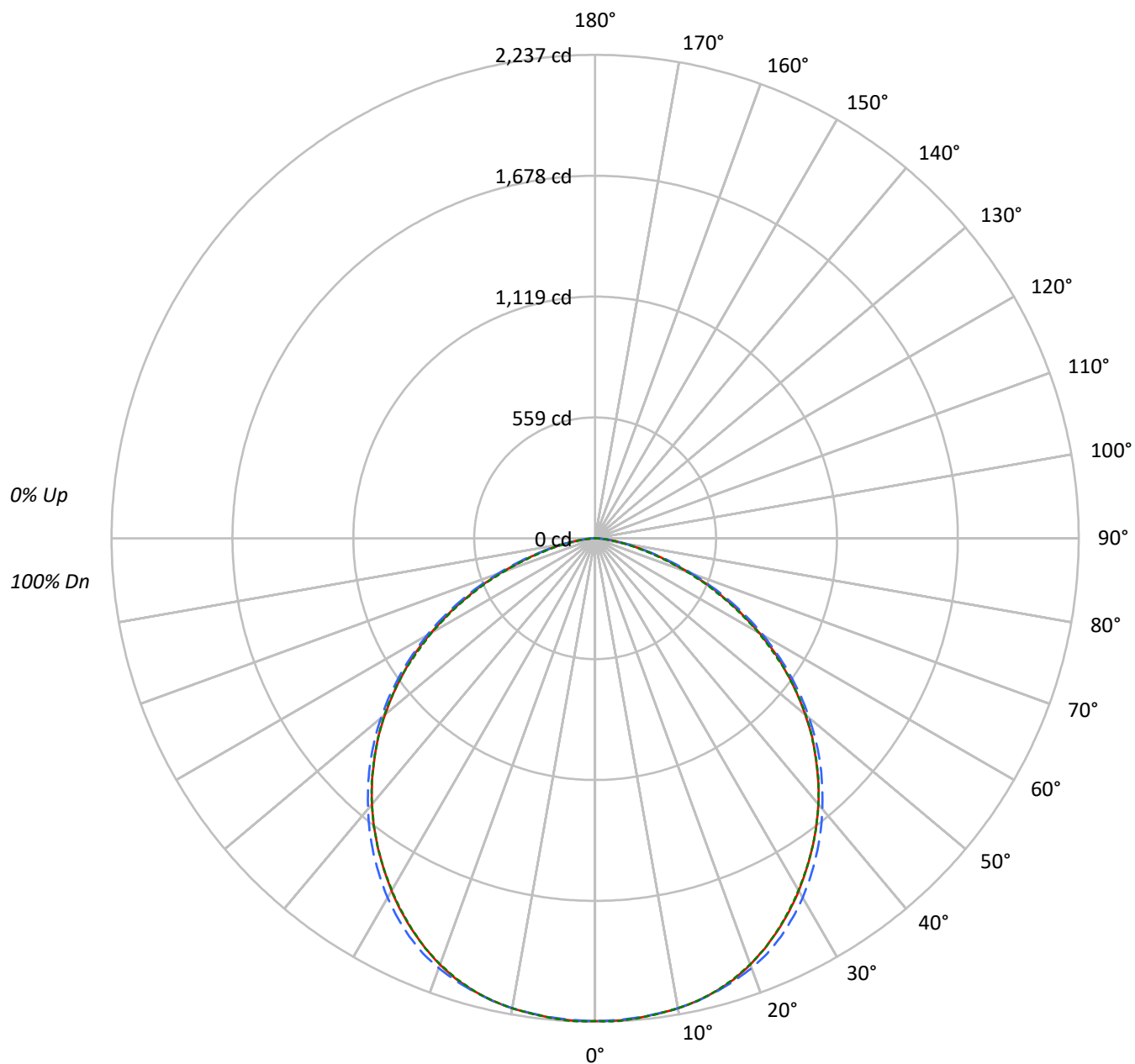
Lumens per Lamp: N/A
Luminaire Lumens: 6002.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 52.5
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 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |
| 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° | 6012 | 6012 | 6012 |
| 5° | 6020 | 6016 | 6024 |
| 10° | 6035 | 6033 | 6035 |
| 15° | 6042 | 6050 | 6040 |
| 20° | 6011 | 6060 | 6007 |
| 25° | 5942 | 6039 | 5937 |
| 30° | 5853 | 5968 | 5845 |
| 35° | 5752 | 5866 | 5752 |
| 40° | 5644 | 5744 | 5644 |
| 45° | 5495 | 5603 | 5503 |
| 50° | 5307 | 5411 | 5328 |
| 55° | 5061 | 5161 | 5061 |
| 60° | 4719 | 4838 | 4689 |
| 65° | 4235 | 4385 | 4181 |
| 70° | 3623 | 3751 | 3517 |
| 75° | 2874 | 2955 | 2726 |
| 80° | 2060 | 2137 | 1960 |
| 85° | 1362 | 1405 | 1272 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 212.0 | 3.5 |
| 10°-20° | 612.3 | 10.2 |
| 20°-30° | 928.9 | 15.5 |
| 30°-40° | 1109.4 | 18.5 |
| 40°-50° | 1128.2 | 18.8 |
| 50°-60° | 975.9 | 16.3 |
| 60°-70° | 671.5 | 11.2 |
| 70°-80° | 304.8 | 5.1 |
| 80°-90° | 59.0 | 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° | 1753.2 | 29.2 |
| 0°-40° | 2862.6 | 47.7 |
| 0°-60° | 4966.7 | 82.8 |
| 0°-90° | 6002.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6002.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 2234 | 2234 | 2234 | 2234 | 2234 | |
| 5° | 2228 | 2226 | 2227 | 2227 | 2230 | 212 |
| 15° | 2169 | 2170 | 2172 | 2168 | 2168 | 612 |
| 25° | 2001 | 2019 | 2034 | 2015 | 2000 | 922 |
| 35° | 1751 | 1782 | 1786 | 1779 | 1751 | 1095 |
| 45° | 1444 | 1470 | 1472 | 1471 | 1446 | 1114 |
| 55° | 1079 | 1097 | 1100 | 1098 | 1079 | 964 |
| 65° | 665 | 684 | 689 | 683 | 657 | 660 |
| 75° | 276 | 287 | 284 | 281 | 262 | 297 |
| 85° | 44 | 47 | 46 | 44 | 41 | 58 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: 22PD-60-PC3-L840

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|--------|--------|--------|--------|--------|
| 0° | 2234.2 | 2234.2 | 2234.2 | 2234.2 | 2234.2 |
| 2.5° | 2234.2 | 2231.3 | 2232.0 | 2232.8 | 2237.0 |
| 5° | 2228.5 | 2226.4 | 2227.1 | 2227.1 | 2229.9 |
| 7.5° | 2219.3 | 2218.5 | 2218.5 | 2217.8 | 2220.0 |
| 10° | 2208.6 | 2207.2 | 2207.9 | 2207.2 | 2208.6 |
| 12.5° | 2192.2 | 2192.2 | 2193.0 | 2190.8 | 2192.2 |
| 15° | 2168.8 | 2170.2 | 2171.6 | 2168.1 | 2168.1 |
| 17.5° | 2139.0 | 2142.5 | 2146.1 | 2139.7 | 2136.1 |
| 20° | 2099.2 | 2107.7 | 2116.2 | 2106.3 | 2097.7 |
| 22.5° | 2053.0 | 2067.2 | 2080.0 | 2064.3 | 2053.0 |
| 25° | 2001.1 | 2018.9 | 2033.8 | 2015.3 | 1999.7 |
| 27.5° | 1945.0 | 1964.9 | 1979.1 | 1963.4 | 1942.1 |
| 30° | 1883.8 | 1908.0 | 1920.8 | 1905.9 | 1881.0 |
| 32.5° | 1818.5 | 1846.9 | 1854.7 | 1845.5 | 1817.0 |
| 35° | 1751.0 | 1782.2 | 1785.8 | 1779.4 | 1751.0 |
| 37.5° | 1680.6 | 1710.5 | 1713.3 | 1709.7 | 1680.6 |
| 40° | 1606.7 | 1634.4 | 1635.1 | 1635.1 | 1606.7 |
| 42.5° | 1527.8 | 1554.8 | 1554.8 | 1554.1 | 1530.0 |
| 45° | 1444.0 | 1470.3 | 1472.4 | 1471.0 | 1446.1 |
| 47.5° | 1360.8 | 1380.7 | 1384.3 | 1381.4 | 1359.4 |
| 50° | 1267.7 | 1288.3 | 1292.6 | 1289.8 | 1272.7 |
| 52.5° | 1175.4 | 1194.5 | 1198.8 | 1196.7 | 1177.5 |
| 55° | 1078.7 | 1097.2 | 1100.0 | 1097.9 | 1078.7 |
| 57.5° | 985.6 | 997.7 | 1000.5 | 996.3 | 972.1 |
| 60° | 876.9 | 894.0 | 898.9 | 894.0 | 871.2 |
| 62.5° | 771.7 | 790.2 | 794.5 | 787.4 | 763.2 |
| 65° | 665.1 | 683.6 | 688.6 | 682.9 | 656.6 |
| 67.5° | 564.2 | 577.7 | 582.0 | 575.6 | 551.4 |
| 70° | 460.5 | 477.5 | 476.8 | 468.3 | 447.0 |
| 72.5° | 358.2 | 381.6 | 377.3 | 372.4 | 348.9 |
| 75° | 276.4 | 287.1 | 284.2 | 281.4 | 262.2 |
| 77.5° | 197.6 | 210.3 | 203.2 | 203.9 | 187.6 |
| 80° | 132.9 | 145.0 | 137.9 | 135.0 | 126.5 |
| 82.5° | 84.6 | 89.5 | 88.1 | 86.7 | 78.9 |
| 85° | 44.1 | 46.9 | 45.5 | 44.1 | 41.2 |
| 87.5° | 17.1 | 18.5 | 17.1 | 17.1 | 15.6 |
| 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)