

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: HALO COMMERCIAL

Report Number: P303555

Luminaire Tested: **PR6FS24D010 PR6M24WW9FSBZ 4000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P303555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-9)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR6FS24D010 PR6M24WW9FSBZ 4000lm3500K
Description: PR6 WALLWASH ASSEMBLY WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3130.9 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Spacing Criteria (0/90/45): 0.95 / 1.13 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

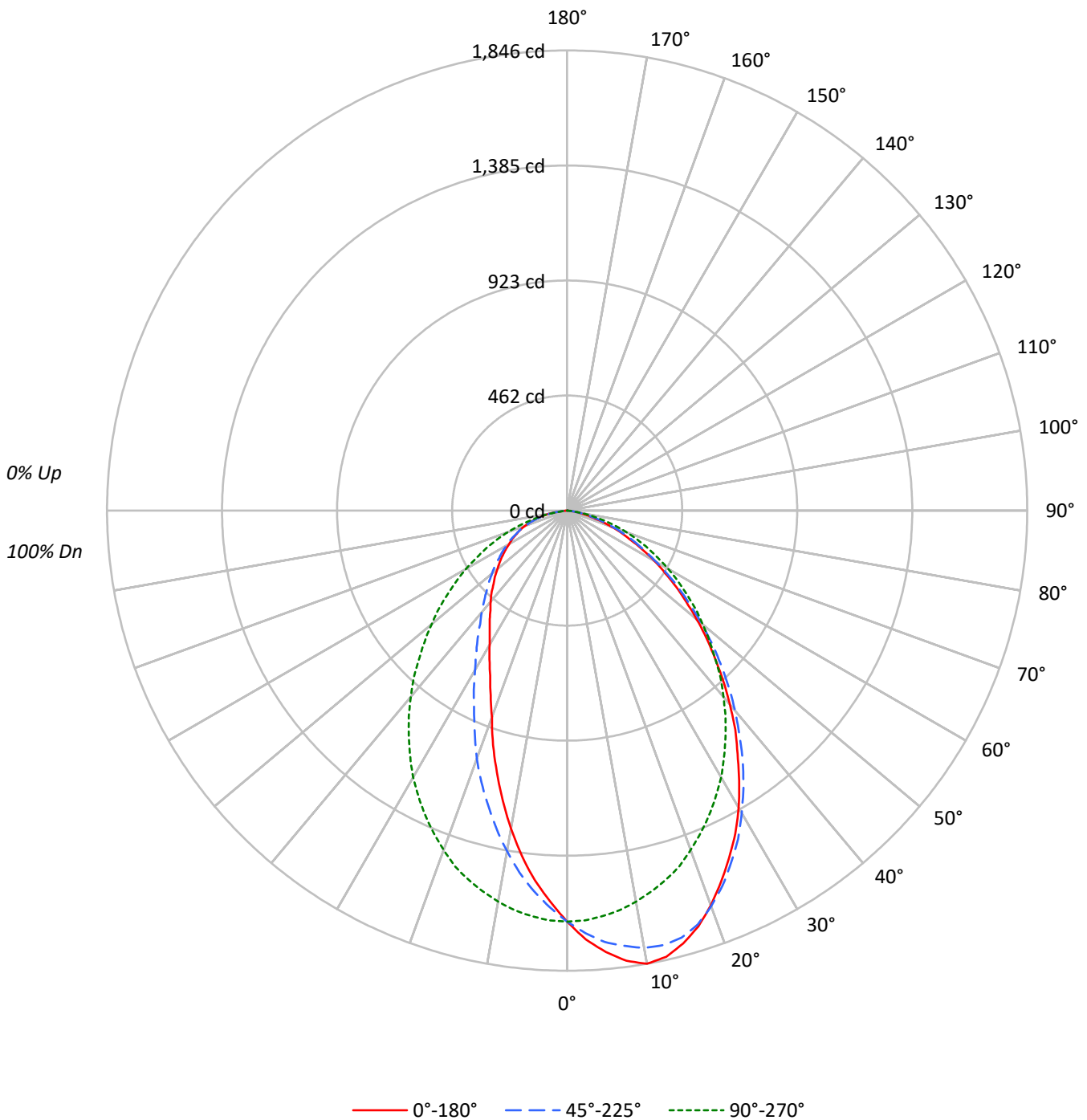
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 92 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 94 | 88 | 83 | 99 | 92 | 87 | 82 | 89 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 75 | | | | | 75 | | | |
| 3 | 94 | 84 | 77 | 71 | 91 | 83 | 76 | 70 | 80 | 74 | 69 | 77 | 72 | 68 | 74 | 70 | 67 | 65 | | | | | 65 | | | |
| 4 | 86 | 75 | 68 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 70 | 64 | 59 | 67 | 63 | 59 | 57 | | | | | 57 | | | |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 59 | 54 | 65 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 52 | 50 | | | | | 50 | | | |
| 6 | 74 | 62 | 54 | 48 | 73 | 61 | 53 | 48 | 59 | 52 | 47 | 58 | 52 | 47 | 56 | 51 | 47 | 45 | | | | | 45 | | | |
| 7 | 69 | 57 | 49 | 43 | 68 | 56 | 48 | 43 | 54 | 48 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | | | 40 | | | |
| 8 | 65 | 52 | 44 | 39 | 63 | 52 | 44 | 39 | 50 | 43 | 38 | 49 | 43 | 38 | 48 | 42 | 38 | 36 | | | | | 36 | | | |
| 9 | 61 | 48 | 41 | 35 | 59 | 48 | 40 | 35 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 35 | 33 | | | | | 33 | | | |
| 10 | 57 | 45 | 37 | 32 | 56 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 42 | 36 | 32 | 30 | | | | | 30 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 107595 | 107595 | 107595 |
| 5° | 116415 | 106951 | 97495 |
| 10° | 122279 | 105532 | 85863 |
| 15° | 121414 | 103528 | 73445 |
| 20° | 117006 | 100566 | 61291 |
| 25° | 110627 | 97050 | 52571 |
| 30° | 103681 | 93105 | 46850 |
| 35° | 94912 | 88206 | 43143 |
| 40° | 86460 | 83045 | 40667 |
| 45° | 77373 | 77373 | 38502 |
| 50° | 68825 | 72083 | 37056 |
| 55° | 60705 | 66631 | 36057 |
| 60° | 52884 | 61261 | 35073 |
| 65° | 43981 | 55126 | 34687 |
| 70° | 35976 | 48222 | 34450 |
| 75° | 25283 | 38441 | 32366 |
| 80° | 16569 | 24120 | 27126 |
| 85° | 2994 | 2994 | 5988 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 154.3 | 4.9 |
| 10°-20° | 418.6 | 13.4 |
| 20°-30° | 568.1 | 18.1 |
| 30°-40° | 600.2 | 19.2 |
| 40°-50° | 538.9 | 17.2 |
| 50°-60° | 420.8 | 13.4 |
| 60°-70° | 280.0 | 8.9 |
| 70°-80° | 133.3 | 4.3 |
| 80°-90° | 16.7 | 0.5 |
| 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° | 1141.1 | 36.4 |
| 0°-40° | 1741.2 | 55.6 |
| 0°-60° | 2700.9 | 86.3 |
| 0°-90° | 3130.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3130.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1649 | 1649 | 1649 | 1649 | 1649 | |
| 5° | 1778 | 1737 | 1633 | 1533 | 1489 | 172 |
| 15° | 1798 | 1774 | 1533 | 1224 | 1087 | 504 |
| 25° | 1537 | 1557 | 1348 | 883 | 730 | 706 |
| 35° | 1192 | 1228 | 1108 | 626 | 542 | 746 |
| 45° | 839 | 871 | 839 | 457 | 417 | 649 |
| 55° | 534 | 550 | 586 | 333 | 317 | 478 |
| 65° | 285 | 301 | 357 | 229 | 225 | 287 |
| 75° | 100 | 116 | 152 | 124 | 128 | 113 |
| 85° | 4 | 4 | 4 | 4 | 8 | 13 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P303555

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1649.2 | 1649.2 | 1649.2 | 1649.2 | 1649.2 | 1649.2 | 1649.2 | 1649.2 | 1649.2 |
| 2.5° | 1721.4 | 1713.4 | 1697.3 | 1673.2 | 1645.2 | 1617.1 | 1593.0 | 1581.0 | 1568.9 |
| 5° | 1777.6 | 1765.5 | 1737.4 | 1689.3 | 1633.1 | 1581.0 | 1532.8 | 1500.7 | 1488.7 |
| 7.5° | 1821.7 | 1805.7 | 1761.5 | 1697.3 | 1617.1 | 1532.8 | 1464.6 | 1412.4 | 1396.4 |
| 10° | 1845.8 | 1829.7 | 1781.6 | 1697.3 | 1593.0 | 1484.6 | 1388.3 | 1320.1 | 1296.1 |
| 12.5° | 1833.7 | 1825.7 | 1785.6 | 1693.3 | 1564.9 | 1428.5 | 1308.1 | 1227.8 | 1191.7 |
| 15° | 1797.6 | 1797.6 | 1773.6 | 1677.3 | 1532.8 | 1376.3 | 1223.8 | 1123.5 | 1087.4 |
| 17.5° | 1749.5 | 1753.5 | 1741.5 | 1657.2 | 1496.7 | 1308.1 | 1143.6 | 1027.2 | 987.1 |
| 20° | 1685.3 | 1689.3 | 1689.3 | 1625.1 | 1448.5 | 1243.9 | 1059.3 | 922.9 | 882.8 |
| 22.5° | 1613.1 | 1621.1 | 1629.1 | 1585.0 | 1400.4 | 1179.7 | 967.0 | 838.6 | 802.5 |
| 25° | 1536.8 | 1544.8 | 1556.9 | 1536.8 | 1348.2 | 1111.5 | 882.8 | 762.4 | 730.3 |
| 27.5° | 1460.6 | 1464.6 | 1484.6 | 1480.6 | 1292.0 | 1043.3 | 810.5 | 702.2 | 674.1 |
| 30° | 1376.3 | 1384.3 | 1400.4 | 1416.4 | 1235.9 | 971.0 | 738.3 | 650.0 | 621.9 |
| 32.5° | 1284.0 | 1292.0 | 1316.1 | 1336.2 | 1171.7 | 902.8 | 678.1 | 597.9 | 577.8 |
| 35° | 1191.7 | 1199.8 | 1227.8 | 1255.9 | 1107.5 | 834.6 | 626.0 | 557.7 | 541.7 |
| 37.5° | 1107.5 | 1115.5 | 1135.6 | 1175.7 | 1043.3 | 766.4 | 573.8 | 521.6 | 505.6 |
| 40° | 1015.2 | 1023.2 | 1047.3 | 1095.4 | 975.1 | 702.2 | 533.7 | 485.5 | 477.5 |
| 42.5° | 926.9 | 934.9 | 959.0 | 1011.2 | 910.9 | 642.0 | 493.5 | 457.4 | 449.4 |
| 45° | 838.6 | 842.6 | 870.7 | 922.9 | 838.6 | 581.8 | 457.4 | 425.3 | 417.3 |
| 47.5° | 758.4 | 762.4 | 786.5 | 846.7 | 774.4 | 529.7 | 425.3 | 397.2 | 393.2 |
| 50° | 678.1 | 674.1 | 702.2 | 762.4 | 710.2 | 481.5 | 393.2 | 373.2 | 365.1 |
| 52.5° | 601.9 | 601.9 | 621.9 | 686.1 | 650.0 | 437.4 | 365.1 | 345.1 | 341.1 |
| 55° | 533.7 | 533.7 | 549.7 | 613.9 | 585.8 | 393.2 | 333.0 | 321.0 | 317.0 |
| 57.5° | 465.5 | 465.5 | 481.5 | 537.7 | 525.6 | 353.1 | 309.0 | 292.9 | 292.9 |
| 60° | 405.3 | 401.3 | 413.3 | 473.5 | 469.5 | 317.0 | 280.9 | 272.9 | 268.8 |
| 62.5° | 345.1 | 341.1 | 353.1 | 405.3 | 409.3 | 280.9 | 256.8 | 248.8 | 248.8 |
| 65° | 284.9 | 288.9 | 300.9 | 345.1 | 357.1 | 248.8 | 228.7 | 228.7 | 224.7 |
| 67.5° | 236.7 | 240.8 | 248.8 | 288.9 | 305.0 | 216.7 | 204.6 | 204.6 | 204.6 |
| 70° | 188.6 | 192.6 | 200.6 | 232.7 | 252.8 | 184.6 | 176.6 | 180.6 | 180.6 |
| 72.5° | 144.5 | 148.5 | 156.5 | 180.6 | 200.6 | 152.5 | 152.5 | 156.5 | 156.5 |
| 75° | 100.3 | 104.3 | 116.4 | 136.4 | 152.5 | 120.4 | 124.4 | 128.4 | 128.4 |
| 77.5° | 68.2 | 68.2 | 76.2 | 92.3 | 108.3 | 88.3 | 96.3 | 100.3 | 104.3 |
| 80° | 44.1 | 44.1 | 48.2 | 56.2 | 64.2 | 60.2 | 64.2 | 72.2 | 72.2 |
| 82.5° | 20.1 | 20.1 | 24.1 | 24.1 | 28.1 | 28.1 | 32.1 | 32.1 | 36.1 |
| 85° | 4.0 | 8.0 | 4.0 | 4.0 | 4.0 | 4.0 | 4.0 | 8.0 | 8.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)