

Classified
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO COMMERCIAL

Report Number: P582411

Luminaire Tested: **HCC6S35D010MW-HM63040940-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S35D010MW-HM63040940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

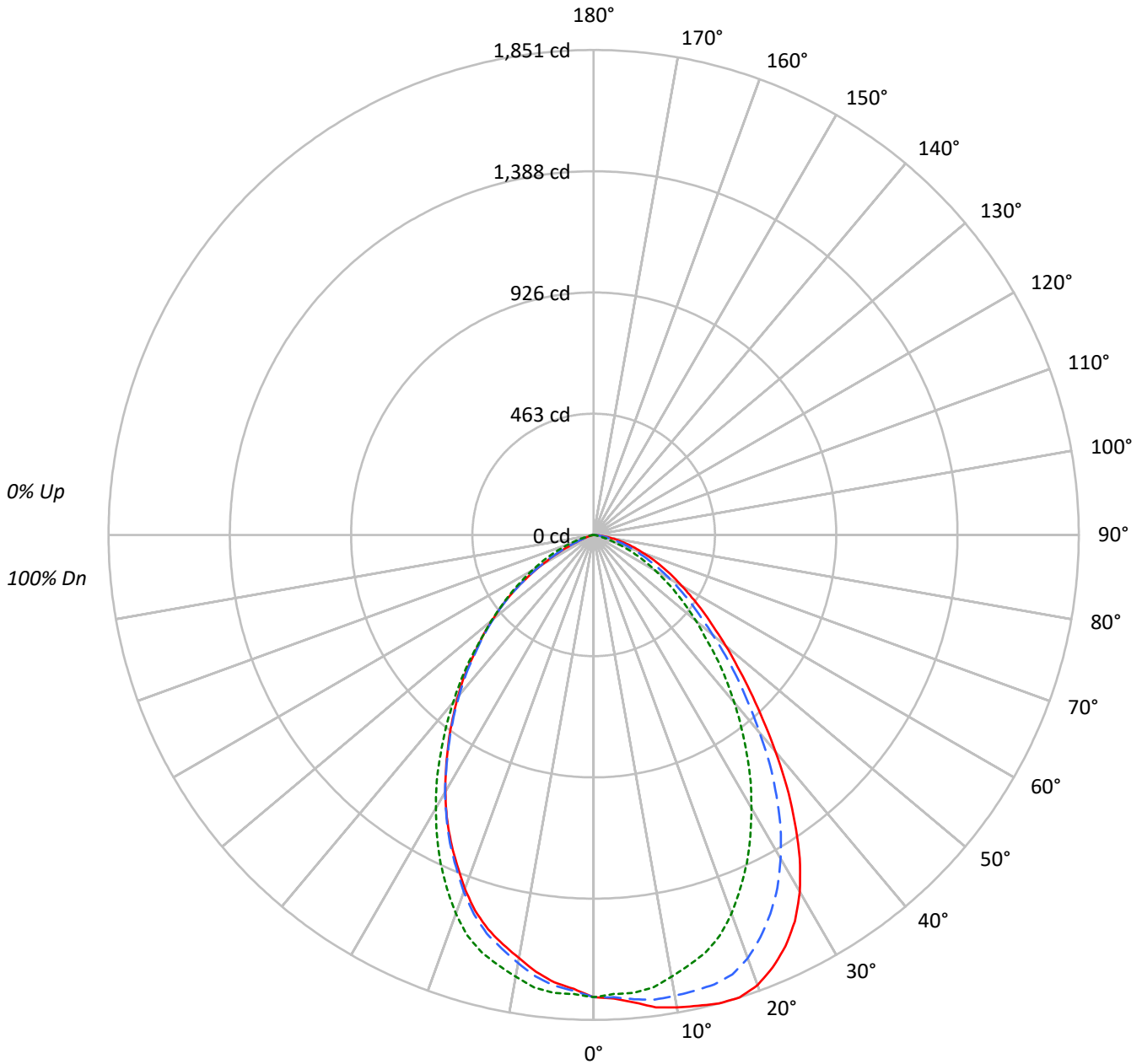
Lumens per Lamp: N/A
Luminaire Lumens: 3143.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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 | | | | | | | | | | |
| 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 | | | | | | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 96703 | 96703 | 96703 |
| 5° | 98574 | 96527 | 94343 |
| 10° | 101924 | 95300 | 91292 |
| 15° | 105046 | 93638 | 88428 |
| 20° | 106678 | 89736 | 83809 |
| 25° | 104752 | 83594 | 78035 |
| 30° | 99572 | 76170 | 71619 |
| 35° | 89496 | 68081 | 64587 |
| 40° | 77230 | 59655 | 57708 |
| 45° | 65394 | 51354 | 50013 |
| 50° | 56075 | 43376 | 42958 |
| 55° | 48610 | 36520 | 35105 |
| 60° | 42442 | 29647 | 25031 |
| 65° | 37332 | 22843 | 13841 |
| 70° | 32217 | 15115 | 6748 |
| 75° | 27345 | 7371 | 2626 |
| 80° | 21152 | 3125 | 1578 |
| 85° | 12454 | 1572 | 1572 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 166.5 | 5.3 |
| 10°-20° | 470.7 | 15.0 |
| 20°-30° | 662.9 | 21.1 |
| 30°-40° | 677.3 | 21.5 |
| 40°-50° | 546.1 | 17.4 |
| 50°-60° | 366.3 | 11.7 |
| 60°-70° | 185.4 | 5.9 |
| 70°-80° | 59.3 | 1.9 |
| 80°-90° | 9.1 | 0.3 |
| 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° | 1300.1 | 41.4 |
| 0°-40° | 1977.5 | 62.9 |
| 0°-60° | 2889.8 | 91.9 |
| 0°-90° | 3143.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3143.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1764 | 1764 | 1764 | 1764 | 1764 | |
| 5° | 1791 | 1779 | 1754 | 1727 | 1714 | 172 |
| 15° | 1851 | 1776 | 1650 | 1575 | 1558 | 523 |
| 25° | 1732 | 1595 | 1382 | 1298 | 1290 | 793 |
| 35° | 1337 | 1216 | 1017 | 960 | 965 | 832 |
| 45° | 844 | 776 | 662 | 640 | 645 | 656 |
| 55° | 509 | 452 | 382 | 365 | 367 | 458 |
| 65° | 288 | 238 | 176 | 117 | 107 | 287 |
| 75° | 129 | 92 | 35 | 12 | 12 | 139 |
| 85° | 20 | 10 | 2 | 2 | 2 | 27 |
| 90° | 0 | 0 | 0 | 0 | 0 | |

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1764.0 | 1764.0 | 1764.0 | 1764.0 | 1764.0 | 1764.0 | 1764.0 | 1764.0 | 1764.0 |
| 2.5° | 1771.5 | 1769.1 | 1766.5 | 1761.6 | 1754.1 | 1746.6 | 1741.7 | 1736.7 | 1734.3 |
| 5° | 1791.3 | 1786.3 | 1779.0 | 1769.1 | 1754.1 | 1736.7 | 1726.8 | 1716.9 | 1714.4 |
| 7.5° | 1818.7 | 1808.7 | 1788.9 | 1766.5 | 1741.7 | 1716.9 | 1699.5 | 1689.6 | 1682.1 |
| 10° | 1831.0 | 1813.6 | 1786.3 | 1749.1 | 1712.0 | 1682.1 | 1659.8 | 1645.0 | 1640.0 |
| 12.5° | 1840.9 | 1821.1 | 1781.4 | 1731.8 | 1682.1 | 1642.4 | 1617.7 | 1605.2 | 1600.3 |
| 15° | 1850.9 | 1831.0 | 1776.4 | 1712.0 | 1649.9 | 1602.8 | 1575.4 | 1563.1 | 1558.1 |
| 17.5° | 1850.9 | 1823.6 | 1759.1 | 1677.2 | 1602.8 | 1545.7 | 1518.4 | 1506.0 | 1503.6 |
| 20° | 1828.6 | 1798.8 | 1719.3 | 1622.6 | 1538.2 | 1473.8 | 1448.9 | 1441.5 | 1436.6 |
| 22.5° | 1786.3 | 1751.7 | 1662.3 | 1553.2 | 1461.3 | 1399.3 | 1372.0 | 1367.0 | 1362.1 |
| 25° | 1731.8 | 1697.1 | 1595.3 | 1478.7 | 1382.0 | 1319.9 | 1297.6 | 1292.7 | 1290.1 |
| 27.5° | 1662.3 | 1625.0 | 1518.4 | 1399.3 | 1295.1 | 1235.6 | 1215.8 | 1215.8 | 1213.2 |
| 30° | 1573.0 | 1530.9 | 1426.7 | 1307.5 | 1203.3 | 1148.7 | 1133.9 | 1133.9 | 1131.4 |
| 32.5° | 1463.9 | 1421.6 | 1327.3 | 1213.2 | 1114.0 | 1057.0 | 1044.6 | 1049.5 | 1047.0 |
| 35° | 1337.3 | 1302.6 | 1215.8 | 1104.1 | 1017.3 | 965.1 | 960.2 | 965.1 | 965.1 |
| 37.5° | 1210.8 | 1178.6 | 1104.1 | 1007.4 | 925.4 | 878.3 | 878.3 | 885.8 | 883.3 |
| 40° | 1079.2 | 1054.5 | 984.9 | 900.6 | 833.6 | 801.4 | 796.5 | 803.8 | 806.4 |
| 42.5° | 955.2 | 935.4 | 875.8 | 806.4 | 746.8 | 714.6 | 722.0 | 726.9 | 729.5 |
| 45° | 843.5 | 823.7 | 776.5 | 704.6 | 662.4 | 640.1 | 640.1 | 647.6 | 645.1 |
| 47.5° | 744.3 | 729.5 | 682.3 | 612.8 | 575.6 | 565.6 | 570.7 | 575.6 | 575.6 |
| 50° | 657.5 | 635.2 | 590.5 | 535.9 | 508.6 | 496.2 | 501.2 | 503.7 | 503.7 |
| 52.5° | 575.6 | 560.7 | 516.0 | 466.4 | 441.6 | 434.2 | 434.2 | 436.7 | 436.7 |
| 55° | 508.6 | 491.3 | 451.5 | 401.9 | 382.1 | 372.2 | 364.7 | 362.2 | 367.3 |
| 57.5° | 444.2 | 429.2 | 392.0 | 344.8 | 322.6 | 312.6 | 297.7 | 292.8 | 297.7 |
| 60° | 387.1 | 374.6 | 337.4 | 292.8 | 270.4 | 250.6 | 233.2 | 223.2 | 228.3 |
| 62.5° | 337.4 | 322.6 | 285.3 | 248.1 | 223.2 | 201.0 | 173.6 | 158.8 | 166.2 |
| 65° | 287.8 | 275.4 | 238.2 | 201.0 | 176.1 | 148.9 | 116.6 | 106.7 | 106.7 |
| 67.5° | 243.2 | 230.7 | 196.1 | 163.7 | 134.0 | 101.8 | 72.0 | 69.4 | 72.0 |
| 70° | 201.0 | 188.6 | 158.8 | 126.5 | 94.3 | 62.1 | 42.1 | 42.1 | 42.1 |
| 72.5° | 166.2 | 151.4 | 124.1 | 91.8 | 59.5 | 32.2 | 22.3 | 24.9 | 24.9 |
| 75° | 129.1 | 116.6 | 91.8 | 62.1 | 34.8 | 14.9 | 12.4 | 12.4 | 12.4 |
| 77.5° | 96.7 | 86.8 | 64.5 | 39.7 | 17.4 | 5.0 | 5.0 | 5.0 | 5.0 |
| 80° | 67.0 | 57.1 | 42.1 | 24.9 | 9.9 | 5.0 | 5.0 | 5.0 | 5.0 |
| 82.5° | 39.7 | 34.8 | 24.9 | 12.4 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 |
| 85° | 19.8 | 17.4 | 9.9 | 5.0 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 5.0 | 5.0 | 2.5 | 2.5 | 0.0 | 2.5 | 2.5 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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Scaled Data Report



Report Generated By 670245859 / DESKTOP-T8S5UU9

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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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