

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: P582423

Luminaire Tested: **HCC6S40D010SL-HM63040827-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582423
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S40D010SL-HM63040827-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

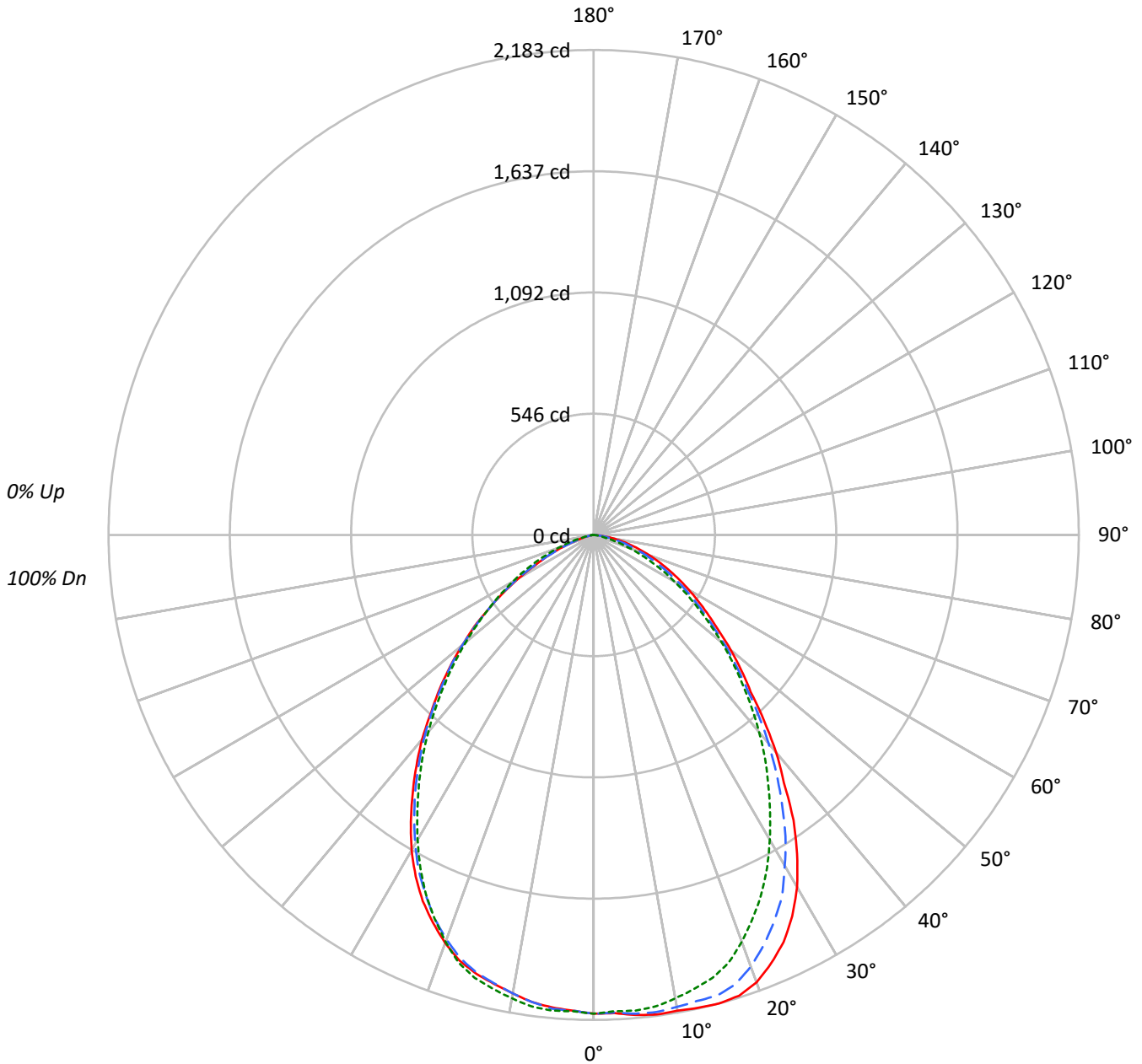
Lumens per Lamp: N/A
Luminaire Lumens: 4222.6 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 118137 | 118137 | 118137 |
| 5° | 119365 | 118275 | 117499 |
| 10° | 121062 | 117911 | 116653 |
| 15° | 123905 | 117174 | 116051 |
| 20° | 125054 | 113690 | 114017 |
| 25° | 122318 | 107970 | 110020 |
| 30° | 115847 | 100294 | 103693 |
| 35° | 104902 | 91671 | 95071 |
| 40° | 91350 | 82870 | 85897 |
| 45° | 77512 | 73349 | 75977 |
| 50° | 68654 | 64075 | 65763 |
| 55° | 60461 | 54803 | 54526 |
| 60° | 54184 | 46137 | 42431 |
| 65° | 48345 | 37008 | 30405 |
| 70° | 42555 | 26703 | 19010 |
| 75° | 35902 | 16140 | 10760 |
| 80° | 27655 | 7135 | 4451 |
| 85° | 16039 | 1761 | 1761 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 204.6 | 4.8 |
| 10°-20° | 587.9 | 13.9 |
| 20°-30° | 849.8 | 20.1 |
| 30°-40° | 894.2 | 21.2 |
| 40°-50° | 751.7 | 17.8 |
| 50°-60° | 527.6 | 12.5 |
| 60°-70° | 290.2 | 6.9 |
| 70°-80° | 103.0 | 2.4 |
| 80°-90° | 13.5 | 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° | 1642.3 | 38.9 |
| 0°-40° | 2536.5 | 60.1 |
| 0°-60° | 3815.8 | 90.4 |
| 0°-90° | 4222.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4222.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2155 | 2155 | 2155 | 2155 | 2155 | |
| 5° | 2169 | 2163 | 2149 | 2141 | 2135 | 207 |
| 15° | 2183 | 2146 | 2065 | 2039 | 2045 | 616 |
| 25° | 2022 | 1920 | 1785 | 1788 | 1819 | 925 |
| 35° | 1568 | 1477 | 1370 | 1398 | 1421 | 971 |
| 45° | 1000 | 972 | 946 | 969 | 980 | 784 |
| 55° | 633 | 599 | 573 | 573 | 570 | 569 |
| 65° | 373 | 333 | 285 | 234 | 234 | 371 |
| 75° | 170 | 136 | 76 | 51 | 51 | 182 |
| 85° | 26 | 14 | 3 | 3 | 3 | 35 |
| 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° | 2155.0 | 2155.0 | 2155.0 | 2155.0 | 2155.0 | 2155.0 | 2155.0 | 2155.0 | 2155.0 |
| 2.5° | 2155.0 | 2155.0 | 2152.1 | 2152.1 | 2146.4 | 2146.4 | 2143.6 | 2143.6 | 2143.6 |
| 5° | 2169.1 | 2169.1 | 2163.4 | 2155.0 | 2149.3 | 2140.9 | 2140.9 | 2138.0 | 2135.2 |
| 7.5° | 2177.5 | 2174.8 | 2166.2 | 2155.0 | 2140.9 | 2126.8 | 2121.1 | 2123.9 | 2121.1 |
| 10° | 2174.8 | 2169.1 | 2157.8 | 2135.2 | 2118.2 | 2098.4 | 2095.6 | 2092.9 | 2095.6 |
| 12.5° | 2180.3 | 2171.9 | 2149.3 | 2121.1 | 2092.9 | 2070.2 | 2067.4 | 2067.4 | 2070.2 |
| 15° | 2183.2 | 2174.8 | 2146.4 | 2104.1 | 2064.6 | 2041.9 | 2039.2 | 2041.9 | 2044.8 |
| 17.5° | 2174.8 | 2163.4 | 2121.1 | 2064.6 | 2019.4 | 1996.8 | 1996.8 | 2002.4 | 2008.0 |
| 20° | 2143.6 | 2126.8 | 2067.4 | 1999.6 | 1948.8 | 1931.8 | 1937.5 | 1948.8 | 1954.4 |
| 22.5° | 2087.2 | 2067.4 | 1999.6 | 1923.4 | 1869.7 | 1855.6 | 1869.7 | 1883.8 | 1889.5 |
| 25° | 2022.2 | 1999.6 | 1920.5 | 1841.5 | 1785.0 | 1768.0 | 1787.8 | 1810.3 | 1818.9 |
| 27.5° | 1934.7 | 1909.3 | 1835.8 | 1745.4 | 1689.0 | 1680.4 | 1703.1 | 1728.4 | 1734.1 |
| 30° | 1830.1 | 1801.9 | 1720.0 | 1635.3 | 1584.4 | 1581.6 | 1607.1 | 1629.6 | 1638.1 |
| 32.5° | 1703.1 | 1677.6 | 1607.1 | 1522.3 | 1477.1 | 1477.1 | 1502.5 | 1522.3 | 1530.8 |
| 35° | 1567.5 | 1539.3 | 1477.1 | 1406.4 | 1369.8 | 1372.6 | 1398.0 | 1412.1 | 1420.6 |
| 37.5° | 1406.4 | 1398.0 | 1350.0 | 1290.6 | 1265.3 | 1271.0 | 1290.6 | 1302.0 | 1310.4 |
| 40° | 1276.5 | 1254.0 | 1223.0 | 1175.0 | 1158.0 | 1163.6 | 1183.4 | 1194.6 | 1200.3 |
| 42.5° | 1135.4 | 1121.3 | 1095.8 | 1061.9 | 1050.6 | 1059.2 | 1076.0 | 1084.5 | 1081.7 |
| 45° | 999.8 | 997.0 | 971.6 | 951.8 | 946.1 | 957.5 | 968.7 | 977.2 | 980.0 |
| 47.5° | 901.0 | 889.7 | 867.1 | 853.0 | 847.3 | 858.5 | 869.9 | 875.6 | 875.6 |
| 50° | 805.0 | 793.6 | 771.1 | 757.0 | 751.3 | 762.5 | 771.1 | 776.6 | 771.1 |
| 52.5° | 709.0 | 697.6 | 677.8 | 661.0 | 658.0 | 663.7 | 666.5 | 669.4 | 675.1 |
| 55° | 632.6 | 621.4 | 598.7 | 579.0 | 573.4 | 576.1 | 573.4 | 573.4 | 570.5 |
| 57.5° | 559.3 | 547.9 | 525.4 | 502.7 | 494.2 | 491.5 | 483.0 | 480.1 | 477.3 |
| 60° | 494.2 | 480.1 | 457.6 | 432.1 | 420.8 | 409.5 | 395.4 | 387.0 | 387.0 |
| 62.5° | 432.1 | 418.0 | 392.5 | 370.0 | 353.1 | 333.3 | 310.6 | 299.4 | 299.4 |
| 65° | 372.7 | 361.5 | 333.3 | 307.9 | 285.3 | 259.8 | 234.4 | 228.7 | 234.4 |
| 67.5° | 316.3 | 305.1 | 276.7 | 251.4 | 223.2 | 192.0 | 169.5 | 169.5 | 175.2 |
| 70° | 265.5 | 254.2 | 228.7 | 197.7 | 166.6 | 135.6 | 118.6 | 118.6 | 118.6 |
| 72.5° | 217.5 | 206.2 | 177.9 | 149.7 | 118.6 | 87.6 | 79.1 | 81.9 | 79.1 |
| 75° | 169.5 | 161.0 | 135.6 | 104.5 | 76.2 | 53.7 | 50.8 | 48.0 | 50.8 |
| 77.5° | 127.2 | 118.6 | 96.0 | 67.8 | 42.3 | 31.1 | 28.2 | 28.2 | 28.2 |
| 80° | 87.6 | 79.1 | 62.1 | 39.6 | 22.6 | 14.1 | 14.1 | 14.1 | 14.1 |
| 82.5° | 53.7 | 45.2 | 33.9 | 19.8 | 8.4 | 8.4 | 8.4 | 8.4 | 8.4 |
| 85° | 25.5 | 19.8 | 14.1 | 5.7 | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 87.5° | 5.7 | 5.7 | 2.8 | 2.8 | 0.0 | 2.8 | 2.8 | 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



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

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