

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: P582178

Luminaire Tested: **HCC6S30D010SL-HM63040835-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S30D010SL-HM63040835-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

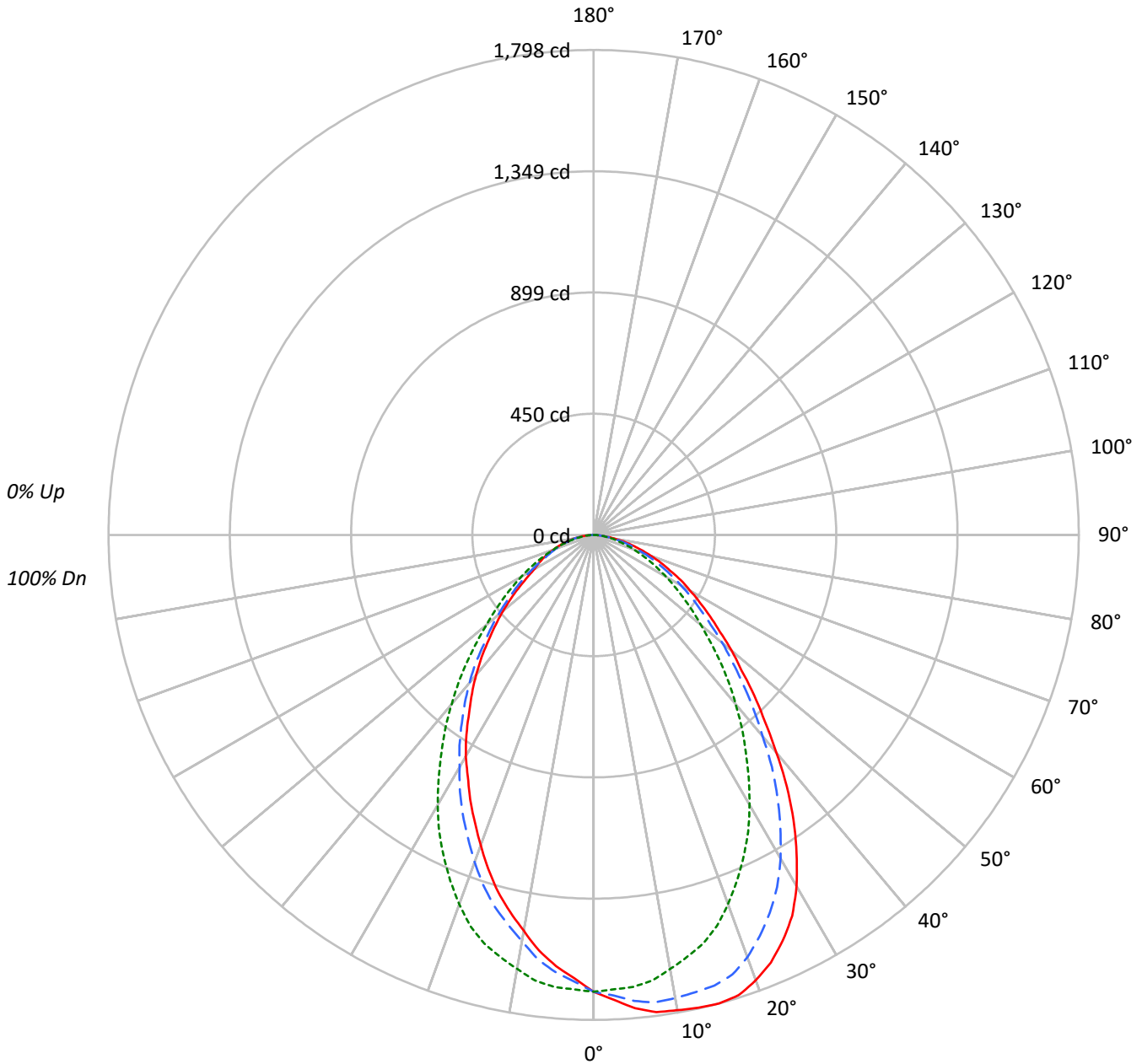
Lumens per Lamp: N/A
Luminaire Lumens: 3154.3 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 28
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 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 92832 | 92832 | 92832 |
| 5° | 96946 | 92560 | 88289 |
| 10° | 99592 | 90958 | 82970 |
| 15° | 102055 | 88996 | 77736 |
| 20° | 102506 | 84958 | 71395 |
| 25° | 100355 | 79541 | 65484 |
| 30° | 95217 | 73144 | 60016 |
| 35° | 86478 | 65732 | 53840 |
| 40° | 75355 | 58553 | 48441 |
| 45° | 65201 | 51246 | 42578 |
| 50° | 56945 | 44118 | 37321 |
| 55° | 50321 | 38775 | 32028 |
| 60° | 45227 | 33989 | 27739 |
| 65° | 40497 | 29562 | 26903 |
| 70° | 36176 | 25213 | 25213 |
| 75° | 31369 | 21223 | 23638 |
| 80° | 25193 | 17995 | 21594 |
| 85° | 17171 | 15788 | 18618 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 159.1 | 5.0 |
| 10°-20° | 442.4 | 14.0 |
| 20°-30° | 616.5 | 19.5 |
| 30°-40° | 635.2 | 20.1 |
| 40°-50° | 526.5 | 16.7 |
| 50°-60° | 378.3 | 12.0 |
| 60°-70° | 240.9 | 7.6 |
| 70°-80° | 123.7 | 3.9 |
| 80°-90° | 31.5 | 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° | 1218.1 | 38.6 |
| 0°-40° | 1853.3 | 58.8 |
| 0°-60° | 2758.1 | 87.4 |
| 0°-90° | 3154.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3154.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1693 | 1693 | 1693 | 1693 | 1693 | |
| 5° | 1762 | 1734 | 1682 | 1627 | 1604 | 169 |
| 15° | 1798 | 1730 | 1568 | 1424 | 1370 | 507 |
| 25° | 1659 | 1545 | 1315 | 1146 | 1083 | 760 |
| 35° | 1292 | 1187 | 982 | 852 | 804 | 803 |
| 45° | 841 | 782 | 661 | 576 | 549 | 651 |
| 55° | 526 | 483 | 406 | 360 | 335 | 474 |
| 65° | 312 | 278 | 228 | 198 | 207 | 313 |
| 75° | 148 | 128 | 100 | 105 | 112 | 158 |
| 85° | 27 | 25 | 25 | 27 | 30 | 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° | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 | 1693.4 |
| 2.5° | 1725.2 | 1718.5 | 1709.3 | 1700.2 | 1686.5 | 1670.5 | 1656.9 | 1652.4 | 1645.5 |
| 5° | 1761.7 | 1752.6 | 1734.4 | 1711.6 | 1682.0 | 1652.4 | 1627.3 | 1611.3 | 1604.4 |
| 7.5° | 1784.6 | 1773.2 | 1748.1 | 1709.3 | 1666.0 | 1622.7 | 1586.2 | 1563.4 | 1554.4 |
| 10° | 1789.1 | 1777.7 | 1743.4 | 1691.1 | 1634.0 | 1574.8 | 1529.3 | 1501.9 | 1490.5 |
| 12.5° | 1795.9 | 1779.9 | 1736.7 | 1675.1 | 1602.2 | 1533.8 | 1476.9 | 1442.6 | 1431.2 |
| 15° | 1798.2 | 1779.9 | 1729.8 | 1654.6 | 1568.1 | 1485.9 | 1424.4 | 1383.4 | 1369.7 |
| 17.5° | 1789.1 | 1768.5 | 1709.3 | 1618.1 | 1520.1 | 1433.6 | 1360.6 | 1317.3 | 1299.1 |
| 20° | 1757.1 | 1734.4 | 1666.0 | 1563.4 | 1456.3 | 1365.2 | 1289.9 | 1244.4 | 1223.8 |
| 22.5° | 1716.1 | 1686.5 | 1609.1 | 1499.7 | 1387.9 | 1292.2 | 1217.1 | 1171.4 | 1151.0 |
| 25° | 1659.1 | 1631.8 | 1545.2 | 1428.9 | 1315.0 | 1214.8 | 1146.3 | 1098.5 | 1082.6 |
| 27.5° | 1593.0 | 1561.2 | 1472.2 | 1356.1 | 1239.8 | 1139.5 | 1073.4 | 1030.1 | 1009.6 |
| 30° | 1504.2 | 1474.6 | 1385.7 | 1269.5 | 1155.5 | 1062.0 | 993.6 | 957.3 | 948.1 |
| 32.5° | 1399.3 | 1374.2 | 1287.7 | 1178.3 | 1068.9 | 982.2 | 925.3 | 886.5 | 877.5 |
| 35° | 1292.2 | 1262.6 | 1187.3 | 1084.8 | 982.2 | 904.8 | 852.4 | 818.2 | 804.5 |
| 37.5° | 1176.0 | 1148.7 | 1084.8 | 993.6 | 902.6 | 829.6 | 784.0 | 754.4 | 740.7 |
| 40° | 1053.0 | 1032.4 | 973.2 | 900.2 | 818.2 | 754.4 | 715.7 | 690.6 | 676.9 |
| 42.5° | 939.0 | 918.5 | 877.5 | 809.1 | 740.7 | 683.7 | 649.6 | 626.7 | 615.3 |
| 45° | 841.0 | 822.8 | 781.8 | 722.4 | 661.0 | 613.0 | 576.5 | 560.6 | 549.2 |
| 47.5° | 743.0 | 733.9 | 697.3 | 642.7 | 585.7 | 544.7 | 519.6 | 501.4 | 492.2 |
| 50° | 667.7 | 656.3 | 622.2 | 565.3 | 517.3 | 485.5 | 462.6 | 446.7 | 437.6 |
| 52.5° | 590.2 | 578.9 | 546.9 | 499.1 | 460.4 | 430.8 | 407.9 | 394.3 | 385.1 |
| 55° | 526.5 | 517.3 | 483.2 | 439.8 | 405.7 | 380.6 | 360.1 | 344.1 | 335.1 |
| 57.5° | 467.2 | 458.1 | 426.1 | 385.1 | 355.5 | 332.8 | 314.5 | 300.8 | 289.4 |
| 60° | 412.5 | 405.7 | 373.8 | 335.1 | 310.0 | 287.1 | 271.2 | 259.8 | 253.0 |
| 62.5° | 364.7 | 351.0 | 323.6 | 289.4 | 266.7 | 248.4 | 232.4 | 225.7 | 230.2 |
| 65° | 312.2 | 305.5 | 278.0 | 248.4 | 227.9 | 209.6 | 198.3 | 202.8 | 207.4 |
| 67.5° | 269.0 | 259.8 | 237.0 | 209.6 | 191.4 | 177.8 | 171.0 | 180.0 | 182.3 |
| 70° | 225.7 | 216.5 | 195.9 | 173.2 | 157.3 | 148.1 | 148.1 | 154.9 | 157.3 |
| 72.5° | 184.7 | 177.8 | 159.6 | 141.3 | 130.0 | 123.1 | 127.6 | 132.2 | 134.5 |
| 75° | 148.1 | 141.3 | 127.6 | 111.6 | 100.2 | 100.2 | 104.9 | 109.4 | 111.6 |
| 77.5° | 113.9 | 109.4 | 95.7 | 84.3 | 79.8 | 79.8 | 84.3 | 86.6 | 88.9 |
| 80° | 79.8 | 75.3 | 68.4 | 61.6 | 57.0 | 61.6 | 66.1 | 66.1 | 68.4 |
| 82.5° | 52.4 | 50.2 | 45.5 | 41.0 | 41.0 | 43.3 | 45.5 | 47.9 | 47.9 |
| 85° | 27.3 | 27.3 | 25.1 | 22.8 | 25.1 | 27.3 | 27.3 | 29.6 | 29.6 |
| 87.5° | 9.2 | 9.2 | 9.2 | 9.2 | 11.4 | 11.4 | 11.4 | 11.4 | 11.4 |
| 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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