

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: P582142

Luminaire Tested: **HCC6S30D010MB-HM63040827-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582142
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: HCC6S30D010MB-HM63040827-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

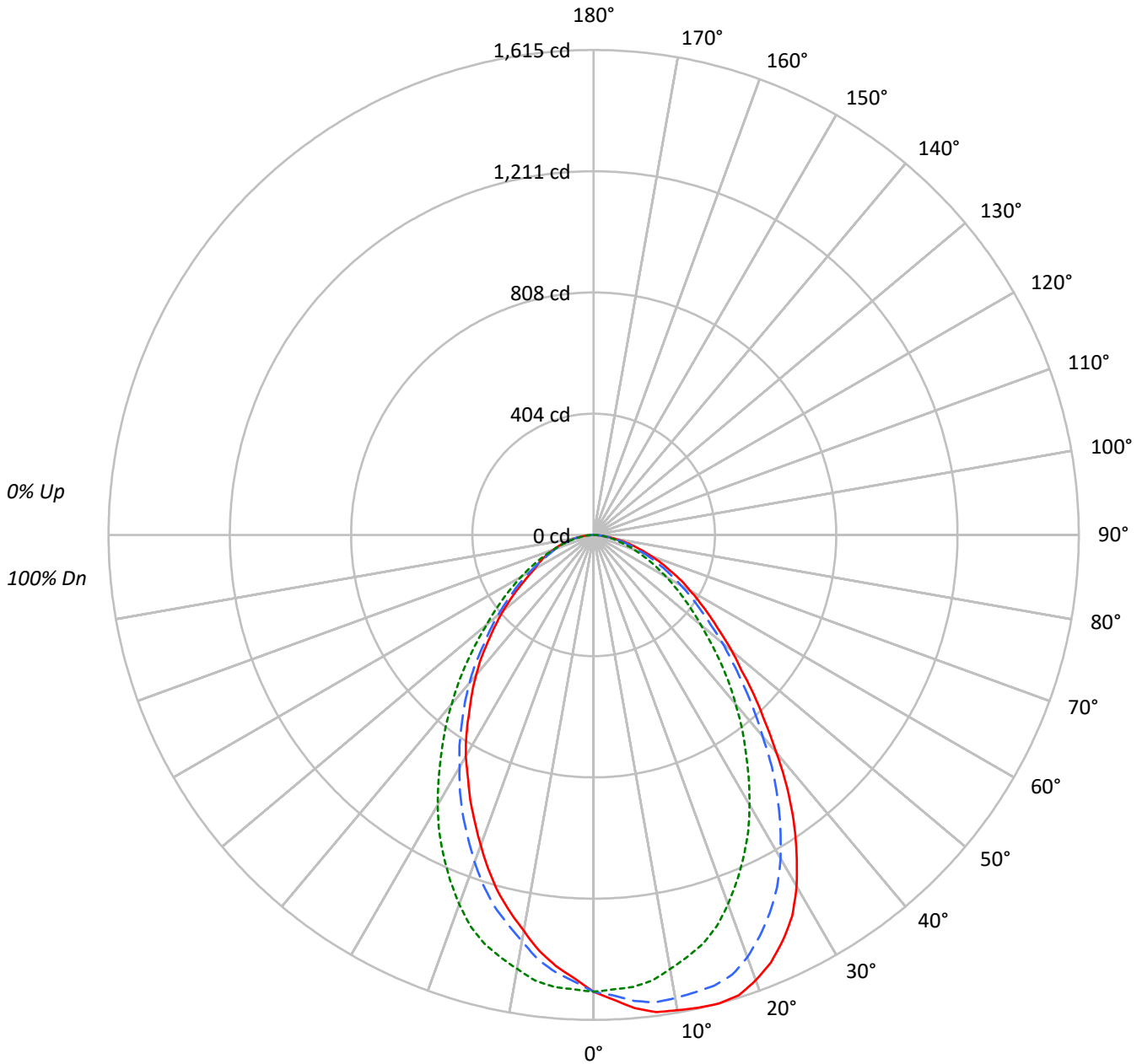
Lumens per Lamp: N/A
Luminaire Lumens: 2833.3 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | | | | | | |
| 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° | 83381 | 83381 | 83381 |
| 5° | 87079 | 83133 | 79309 |
| 10° | 89461 | 81706 | 74525 |
| 15° | 91663 | 79932 | 69830 |
| 20° | 92081 | 76312 | 64131 |
| 25° | 90144 | 71448 | 58818 |
| 30° | 85526 | 65700 | 53907 |
| 35° | 77678 | 59053 | 48365 |
| 40° | 67677 | 52591 | 43517 |
| 45° | 58564 | 46028 | 38244 |
| 50° | 51162 | 39632 | 33526 |
| 55° | 45198 | 34828 | 28759 |
| 60° | 40622 | 30535 | 24910 |
| 65° | 36385 | 26553 | 24166 |
| 70° | 32489 | 22648 | 22648 |
| 75° | 28171 | 19084 | 21266 |
| 80° | 22635 | 16132 | 19415 |
| 85° | 15473 | 14152 | 16731 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 143.0 | 5.0 |
| 10°-20° | 397.4 | 14.0 |
| 20°-30° | 553.8 | 19.5 |
| 30°-40° | 570.6 | 20.1 |
| 40°-50° | 472.9 | 16.7 |
| 50°-60° | 339.9 | 12.0 |
| 60°-70° | 216.4 | 7.6 |
| 70°-80° | 111.1 | 3.9 |
| 80°-90° | 28.3 | 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° | 1094.1 | 38.6 |
| 0°-40° | 1664.7 | 58.8 |
| 0°-60° | 2477.5 | 87.4 |
| 0°-90° | 2833.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2833.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1521 | 1521 | 1521 | 1521 | 1521 | |
| 5° | 1582 | 1558 | 1511 | 1462 | 1441 | 152 |
| 15° | 1615 | 1554 | 1408 | 1280 | 1230 | 455 |
| 25° | 1490 | 1388 | 1181 | 1030 | 972 | 683 |
| 35° | 1161 | 1066 | 882 | 766 | 723 | 721 |
| 45° | 755 | 702 | 594 | 518 | 493 | 585 |
| 55° | 473 | 434 | 364 | 323 | 301 | 426 |
| 65° | 280 | 250 | 205 | 178 | 186 | 281 |
| 75° | 133 | 115 | 90 | 94 | 100 | 142 |
| 85° | 25 | 22 | 22 | 25 | 27 | 31 |
| 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° | 1521.0 | 1521.0 | 1521.0 | 1521.0 | 1521.0 | 1521.0 | 1521.0 | 1521.0 | 1521.0 |
| 2.5° | 1549.6 | 1543.6 | 1535.4 | 1527.2 | 1514.9 | 1500.5 | 1488.3 | 1484.2 | 1478.0 |
| 5° | 1582.4 | 1574.2 | 1557.8 | 1537.4 | 1510.7 | 1484.2 | 1461.6 | 1447.4 | 1441.2 |
| 7.5° | 1602.9 | 1592.7 | 1570.2 | 1535.4 | 1496.5 | 1457.6 | 1424.8 | 1404.3 | 1396.1 |
| 10° | 1607.1 | 1596.7 | 1566.0 | 1518.9 | 1467.8 | 1414.6 | 1373.7 | 1349.0 | 1338.8 |
| 12.5° | 1613.1 | 1598.8 | 1560.0 | 1504.7 | 1439.2 | 1377.7 | 1326.6 | 1295.9 | 1285.5 |
| 15° | 1615.1 | 1598.8 | 1553.8 | 1486.2 | 1408.4 | 1334.8 | 1279.5 | 1242.6 | 1230.4 |
| 17.5° | 1607.1 | 1588.6 | 1535.4 | 1453.4 | 1365.4 | 1287.7 | 1222.2 | 1183.3 | 1166.9 |
| 20° | 1578.4 | 1557.8 | 1496.5 | 1404.3 | 1308.1 | 1226.2 | 1158.7 | 1117.8 | 1099.3 |
| 22.5° | 1541.5 | 1514.9 | 1445.2 | 1347.0 | 1246.7 | 1160.7 | 1093.2 | 1052.3 | 1033.8 |
| 25° | 1490.3 | 1465.8 | 1387.9 | 1283.5 | 1181.2 | 1091.1 | 1029.7 | 986.8 | 972.4 |
| 27.5° | 1431.0 | 1402.3 | 1322.4 | 1218.0 | 1113.6 | 1023.6 | 964.2 | 925.3 | 906.9 |
| 30° | 1351.1 | 1324.5 | 1244.6 | 1140.3 | 1037.9 | 953.9 | 892.6 | 859.8 | 851.6 |
| 32.5° | 1256.9 | 1234.4 | 1156.7 | 1058.3 | 960.1 | 882.4 | 831.1 | 796.4 | 788.2 |
| 35° | 1160.7 | 1134.1 | 1066.5 | 974.4 | 882.4 | 812.7 | 765.6 | 734.9 | 722.7 |
| 37.5° | 1056.3 | 1031.7 | 974.4 | 892.6 | 810.7 | 745.1 | 704.2 | 677.6 | 665.4 |
| 40° | 945.7 | 927.3 | 874.2 | 808.6 | 734.9 | 677.6 | 642.8 | 620.3 | 608.1 |
| 42.5° | 843.5 | 825.0 | 788.2 | 726.7 | 665.4 | 614.1 | 583.4 | 563.0 | 552.8 |
| 45° | 755.4 | 739.0 | 702.2 | 649.0 | 593.7 | 550.6 | 517.9 | 503.5 | 493.3 |
| 47.5° | 667.4 | 659.2 | 626.4 | 577.3 | 526.1 | 489.3 | 466.8 | 450.4 | 442.2 |
| 50° | 599.9 | 589.6 | 558.8 | 507.7 | 464.7 | 436.0 | 415.6 | 401.3 | 393.1 |
| 52.5° | 530.2 | 519.9 | 491.3 | 448.4 | 413.5 | 386.9 | 366.4 | 354.2 | 346.0 |
| 55° | 472.9 | 464.7 | 434.0 | 395.1 | 364.4 | 341.8 | 323.4 | 309.1 | 300.9 |
| 57.5° | 419.7 | 411.5 | 382.9 | 346.0 | 319.4 | 298.9 | 282.5 | 270.3 | 260.0 |
| 60° | 370.5 | 364.4 | 335.8 | 300.9 | 278.5 | 257.9 | 243.6 | 233.4 | 227.2 |
| 62.5° | 327.6 | 315.2 | 290.7 | 260.0 | 239.5 | 223.2 | 208.8 | 202.7 | 206.8 |
| 65° | 280.5 | 274.3 | 249.8 | 223.2 | 204.7 | 188.3 | 178.1 | 182.2 | 186.3 |
| 67.5° | 241.6 | 233.4 | 212.9 | 188.3 | 171.9 | 159.7 | 153.5 | 161.7 | 163.7 |
| 70° | 202.7 | 194.5 | 176.1 | 155.6 | 141.3 | 133.0 | 133.0 | 139.2 | 141.3 |
| 72.5° | 165.9 | 159.7 | 143.3 | 126.9 | 116.6 | 110.6 | 114.6 | 118.8 | 120.8 |
| 75° | 133.0 | 126.9 | 114.6 | 100.4 | 90.1 | 90.1 | 94.2 | 98.2 | 100.4 |
| 77.5° | 102.4 | 98.2 | 86.0 | 75.7 | 71.7 | 71.7 | 75.7 | 77.8 | 79.8 |
| 80° | 71.7 | 67.5 | 61.5 | 55.3 | 51.1 | 55.3 | 59.3 | 59.3 | 61.5 |
| 82.5° | 47.1 | 45.1 | 40.9 | 36.9 | 36.9 | 38.9 | 40.9 | 43.0 | 43.0 |
| 85° | 24.6 | 24.6 | 22.5 | 20.5 | 22.5 | 24.6 | 24.6 | 26.6 | 26.6 |
| 87.5° | 8.2 | 8.2 | 8.2 | 8.2 | 10.2 | 10.2 | 10.2 | 10.2 | 10.2 |
| 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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