

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: P582231

Luminaire Tested: **HCC6S30D010MW-HM63040930-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582231
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: HCC6S30D010MW-HM63040930-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

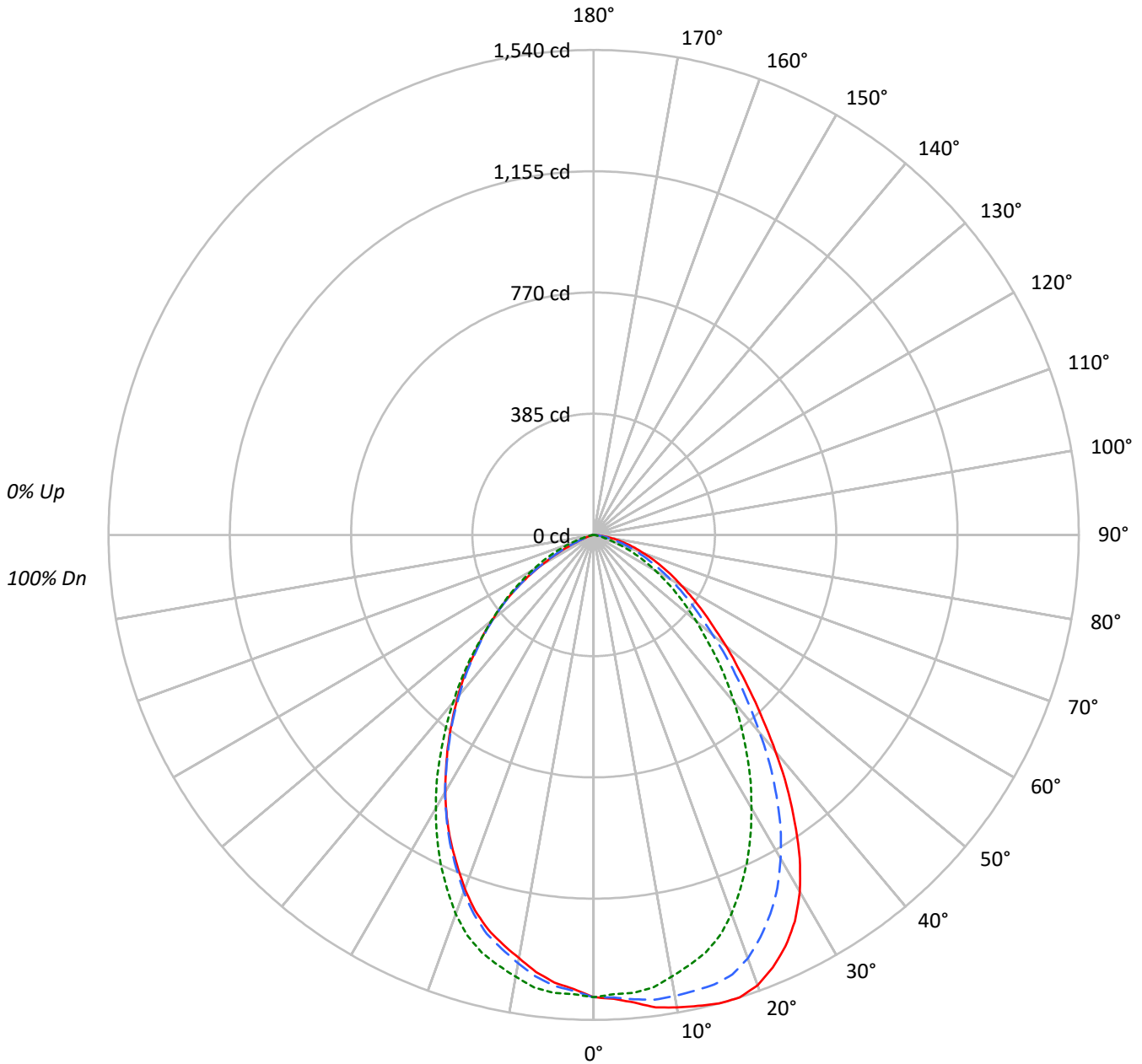
Lumens per Lamp: N/A
Luminaire Lumens: 2616.0 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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° | 80471 | 80471 | 80471 |
| 5° | 82027 | 80327 | 78511 |
| 10° | 84818 | 79307 | 75967 |
| 15° | 87413 | 77918 | 73587 |
| 20° | 88774 | 74679 | 69738 |
| 25° | 87168 | 69560 | 64945 |
| 30° | 82861 | 63390 | 59598 |
| 35° | 74472 | 56644 | 53753 |
| 40° | 64278 | 49643 | 48019 |
| 45° | 54424 | 42733 | 41617 |
| 50° | 46668 | 36101 | 35743 |
| 55° | 40457 | 30384 | 29208 |
| 60° | 35315 | 24680 | 20832 |
| 65° | 31067 | 19016 | 11519 |
| 70° | 26815 | 12582 | 5626 |
| 75° | 22748 | 6121 | 2182 |
| 80° | 17616 | 2589 | 1326 |
| 85° | 10378 | 1258 | 1258 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 138.5 | 5.3 |
| 10°-20° | 391.7 | 15.0 |
| 20°-30° | 551.7 | 21.1 |
| 30°-40° | 563.6 | 21.5 |
| 40°-50° | 454.4 | 17.4 |
| 50°-60° | 304.8 | 11.7 |
| 60°-70° | 154.3 | 5.9 |
| 70°-80° | 49.3 | 1.9 |
| 80°-90° | 7.6 | 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° | 1081.9 | 41.4 |
| 0°-40° | 1645.6 | 62.9 |
| 0°-60° | 2404.8 | 91.9 |
| 0°-90° | 2616.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2616.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1468 | 1468 | 1468 | 1468 | 1468 | |
| 5° | 1491 | 1480 | 1460 | 1437 | 1427 | 144 |
| 15° | 1540 | 1478 | 1373 | 1311 | 1297 | 435 |
| 25° | 1441 | 1328 | 1150 | 1080 | 1074 | 660 |
| 35° | 1113 | 1012 | 846 | 799 | 803 | 693 |
| 45° | 702 | 646 | 551 | 533 | 537 | 546 |
| 55° | 423 | 376 | 318 | 304 | 306 | 381 |
| 65° | 240 | 198 | 147 | 97 | 89 | 239 |
| 75° | 107 | 76 | 29 | 10 | 10 | 115 |
| 85° | 16 | 8 | 2 | 2 | 2 | 22 |
| 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° | 1467.9 | 1467.9 | 1467.9 | 1467.9 | 1467.9 | 1467.9 | 1467.9 | 1467.9 | 1467.9 |
| 2.5° | 1474.1 | 1472.1 | 1470.1 | 1465.9 | 1459.7 | 1453.6 | 1449.4 | 1445.2 | 1443.2 |
| 5° | 1490.6 | 1486.5 | 1480.3 | 1472.1 | 1459.7 | 1445.2 | 1437.0 | 1428.7 | 1426.7 |
| 7.5° | 1513.4 | 1505.2 | 1488.6 | 1470.1 | 1449.4 | 1428.7 | 1414.3 | 1406.0 | 1399.8 |
| 10° | 1523.7 | 1509.2 | 1486.5 | 1455.6 | 1424.7 | 1399.8 | 1381.3 | 1368.9 | 1364.7 |
| 12.5° | 1531.9 | 1515.5 | 1482.4 | 1441.1 | 1399.8 | 1366.8 | 1346.2 | 1335.8 | 1331.7 |
| 15° | 1540.2 | 1523.7 | 1478.3 | 1424.7 | 1372.9 | 1333.7 | 1311.0 | 1300.8 | 1296.6 |
| 17.5° | 1540.2 | 1517.5 | 1463.8 | 1395.6 | 1333.7 | 1286.3 | 1263.6 | 1253.2 | 1251.2 |
| 20° | 1521.7 | 1496.8 | 1430.8 | 1350.2 | 1280.1 | 1226.5 | 1205.8 | 1199.6 | 1195.4 |
| 22.5° | 1486.5 | 1457.6 | 1383.3 | 1292.4 | 1216.1 | 1164.5 | 1141.8 | 1137.6 | 1133.5 |
| 25° | 1441.1 | 1412.2 | 1327.5 | 1230.5 | 1150.0 | 1098.4 | 1079.8 | 1075.7 | 1073.7 |
| 27.5° | 1383.3 | 1352.4 | 1263.6 | 1164.5 | 1077.7 | 1028.2 | 1011.7 | 1011.7 | 1009.6 |
| 30° | 1309.0 | 1273.9 | 1187.2 | 1088.1 | 1001.4 | 956.0 | 943.6 | 943.6 | 941.5 |
| 32.5° | 1218.1 | 1183.1 | 1104.6 | 1009.6 | 927.1 | 879.5 | 869.2 | 873.3 | 871.3 |
| 35° | 1112.8 | 1083.9 | 1011.7 | 918.7 | 846.4 | 803.2 | 799.0 | 803.2 | 803.2 |
| 37.5° | 1007.6 | 980.7 | 918.7 | 838.2 | 770.1 | 730.9 | 730.9 | 737.1 | 735.0 |
| 40° | 898.2 | 877.5 | 819.7 | 749.4 | 693.7 | 666.9 | 662.7 | 668.9 | 671.0 |
| 42.5° | 794.8 | 778.3 | 728.9 | 671.0 | 621.5 | 594.6 | 600.8 | 605.0 | 607.0 |
| 45° | 702.0 | 685.5 | 646.2 | 586.4 | 551.2 | 532.7 | 532.7 | 538.9 | 536.8 |
| 47.5° | 619.4 | 607.0 | 567.7 | 510.0 | 479.0 | 470.7 | 474.9 | 479.0 | 479.0 |
| 50° | 547.2 | 528.5 | 491.4 | 446.0 | 423.3 | 412.9 | 417.1 | 419.1 | 419.1 |
| 52.5° | 479.0 | 466.6 | 429.5 | 388.2 | 367.5 | 361.3 | 361.3 | 363.4 | 363.4 |
| 55° | 423.3 | 408.8 | 375.7 | 334.5 | 317.9 | 309.7 | 303.6 | 301.4 | 305.6 |
| 57.5° | 369.5 | 357.2 | 326.3 | 287.0 | 268.4 | 260.2 | 247.8 | 243.6 | 247.8 |
| 60° | 322.1 | 311.8 | 280.8 | 243.6 | 225.1 | 208.6 | 194.0 | 185.8 | 190.0 |
| 62.5° | 280.8 | 268.4 | 237.4 | 206.4 | 185.8 | 167.3 | 144.6 | 132.1 | 138.3 |
| 65° | 239.5 | 229.1 | 198.2 | 167.3 | 146.6 | 123.9 | 97.0 | 88.8 | 88.8 |
| 67.5° | 202.4 | 192.0 | 163.1 | 136.3 | 111.5 | 84.7 | 59.9 | 57.8 | 59.9 |
| 70° | 167.3 | 156.9 | 132.1 | 105.3 | 78.5 | 51.6 | 35.1 | 35.1 | 35.1 |
| 72.5° | 138.3 | 125.9 | 103.2 | 76.3 | 49.6 | 26.9 | 18.5 | 20.7 | 20.7 |
| 75° | 107.4 | 97.0 | 76.3 | 51.6 | 28.9 | 12.4 | 10.3 | 10.3 | 10.3 |
| 77.5° | 80.5 | 72.3 | 53.6 | 33.1 | 14.5 | 4.2 | 4.2 | 4.2 | 4.2 |
| 80° | 55.8 | 47.4 | 35.1 | 20.7 | 8.2 | 4.2 | 4.2 | 4.2 | 4.2 |
| 82.5° | 33.1 | 28.9 | 20.7 | 10.3 | 4.2 | 2.0 | 2.0 | 2.0 | 2.0 |
| 85° | 16.5 | 14.5 | 8.2 | 4.2 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 87.5° | 4.2 | 4.2 | 2.0 | 2.0 | 0.0 | 2.0 | 2.0 | 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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