

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: P582196

Luminaire Tested: **HCC6S30D010MB-HM63040840-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582196
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-HM63040840-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

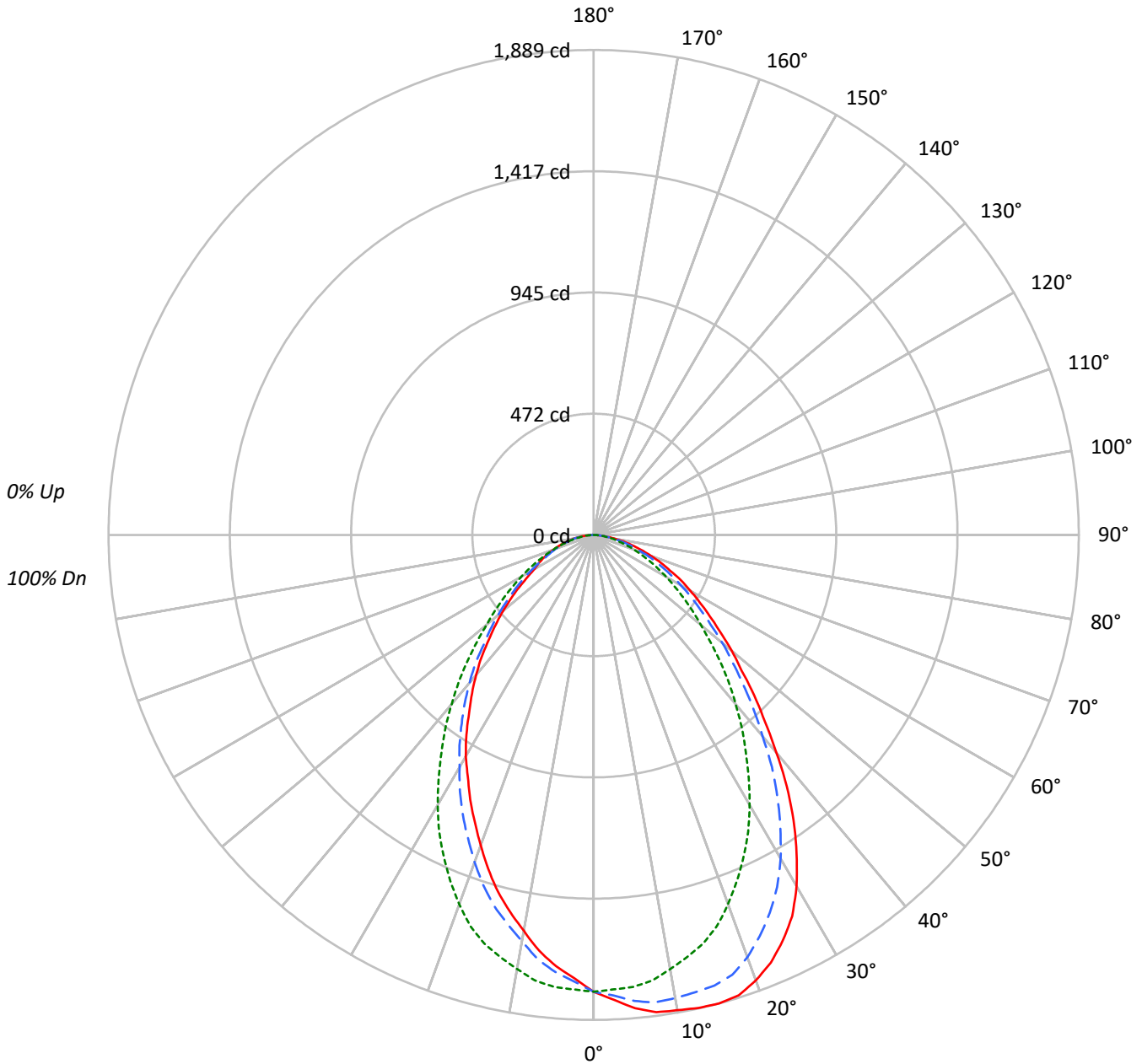
Lumens per Lamp: N/A
Luminaire Lumens: 3314.3 lumens
Efficiency: N/A
Efficacy: 118.4 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | 100 | | | |
| 1 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | 76 | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | 51 | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 52 | 48 | 46 | | | | | 46 | | | |
| 7 | 70 | 58 | 50 | 44 | 69 | 57 | 50 | 44 | 56 | 49 | 44 | 54 | 48 | 44 | 53 | 48 | 43 | 42 | | | | | 42 | | | |
| 8 | 66 | 53 | 46 | 40 | 64 | 53 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 49 | 44 | 39 | 38 | | | | | 38 | | | |
| 9 | 62 | 49 | 42 | 37 | 60 | 49 | 42 | 37 | 48 | 41 | 36 | 47 | 41 | 36 | 46 | 40 | 36 | 34 | | | | | 34 | | | |
| 10 | 58 | 46 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 97536 | 97536 | 97536 |
| 5° | 101860 | 97248 | 92774 |
| 10° | 104641 | 95573 | 87184 |
| 15° | 107231 | 93502 | 81680 |
| 20° | 107710 | 89269 | 75017 |
| 25° | 105448 | 83575 | 68804 |
| 30° | 100041 | 76854 | 63054 |
| 35° | 90861 | 69071 | 56570 |
| 40° | 79177 | 61515 | 50903 |
| 45° | 68511 | 53843 | 44741 |
| 50° | 59836 | 46361 | 39214 |
| 55° | 52863 | 40744 | 33652 |
| 60° | 47518 | 35710 | 29153 |
| 65° | 42547 | 31067 | 28265 |
| 70° | 38003 | 26495 | 26495 |
| 75° | 32957 | 22303 | 24866 |
| 80° | 26455 | 18910 | 22667 |
| 85° | 18115 | 16605 | 19625 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 167.2 | 5.0 |
| 10°-20° | 464.8 | 14.0 |
| 20°-30° | 647.8 | 19.5 |
| 30°-40° | 667.5 | 20.1 |
| 40°-50° | 553.2 | 16.7 |
| 50°-60° | 397.5 | 12.0 |
| 60°-70° | 253.2 | 7.6 |
| 70°-80° | 130.0 | 3.9 |
| 80°-90° | 33.1 | 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° | 1279.9 | 38.6 |
| 0°-40° | 1947.3 | 58.8 |
| 0°-60° | 2898.0 | 87.4 |
| 0°-90° | 3314.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3314.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1779 | 1779 | 1779 | 1779 | 1779 | |
| 5° | 1851 | 1822 | 1767 | 1710 | 1686 | 177 |
| 15° | 1889 | 1818 | 1648 | 1497 | 1439 | 532 |
| 25° | 1743 | 1624 | 1382 | 1204 | 1138 | 799 |
| 35° | 1358 | 1248 | 1032 | 896 | 845 | 843 |
| 45° | 884 | 821 | 694 | 606 | 577 | 684 |
| 55° | 553 | 508 | 426 | 378 | 352 | 498 |
| 65° | 328 | 292 | 240 | 208 | 218 | 329 |
| 75° | 156 | 134 | 105 | 110 | 117 | 166 |
| 85° | 29 | 26 | 26 | 29 | 31 | 37 |
| 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° | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 | 1779.2 |
| 2.5° | 1812.7 | 1805.6 | 1796.0 | 1786.5 | 1772.1 | 1755.3 | 1740.9 | 1736.2 | 1728.9 |
| 5° | 1851.0 | 1841.5 | 1822.4 | 1798.4 | 1767.2 | 1736.2 | 1709.8 | 1693.0 | 1685.9 |
| 7.5° | 1875.1 | 1863.0 | 1836.6 | 1796.0 | 1750.4 | 1705.0 | 1666.7 | 1642.7 | 1633.2 |
| 10° | 1879.8 | 1867.8 | 1831.9 | 1776.8 | 1716.9 | 1654.7 | 1606.8 | 1578.0 | 1566.2 |
| 12.5° | 1886.9 | 1870.2 | 1824.8 | 1760.1 | 1683.4 | 1611.6 | 1551.8 | 1515.9 | 1503.8 |
| 15° | 1889.4 | 1870.2 | 1817.5 | 1738.6 | 1647.5 | 1561.3 | 1496.7 | 1453.6 | 1439.2 |
| 17.5° | 1879.8 | 1858.3 | 1796.0 | 1700.2 | 1597.2 | 1506.2 | 1429.7 | 1384.1 | 1365.0 |
| 20° | 1846.3 | 1822.4 | 1750.4 | 1642.7 | 1530.2 | 1434.4 | 1355.3 | 1307.4 | 1285.9 |
| 22.5° | 1803.1 | 1772.1 | 1690.6 | 1575.7 | 1458.3 | 1357.7 | 1278.8 | 1230.9 | 1209.3 |
| 25° | 1743.3 | 1714.5 | 1623.6 | 1501.5 | 1381.7 | 1276.4 | 1204.5 | 1154.3 | 1137.5 |
| 27.5° | 1673.9 | 1640.3 | 1546.9 | 1424.8 | 1302.7 | 1197.3 | 1127.9 | 1082.3 | 1060.8 |
| 30° | 1580.4 | 1549.4 | 1455.9 | 1333.8 | 1214.1 | 1115.9 | 1044.1 | 1005.8 | 996.1 |
| 32.5° | 1470.3 | 1443.9 | 1353.0 | 1238.0 | 1123.1 | 1032.1 | 972.2 | 931.5 | 922.0 |
| 35° | 1357.7 | 1326.7 | 1247.6 | 1139.9 | 1032.1 | 950.7 | 895.6 | 859.6 | 845.3 |
| 37.5° | 1235.6 | 1207.0 | 1139.9 | 1044.1 | 948.2 | 871.7 | 823.7 | 792.6 | 778.3 |
| 40° | 1106.4 | 1084.7 | 1022.5 | 945.8 | 859.6 | 792.6 | 751.9 | 725.5 | 711.3 |
| 42.5° | 986.6 | 965.0 | 922.0 | 850.1 | 778.3 | 718.4 | 682.5 | 658.6 | 646.6 |
| 45° | 883.7 | 864.5 | 821.4 | 759.1 | 694.5 | 644.2 | 605.8 | 589.0 | 577.1 |
| 47.5° | 780.7 | 771.1 | 732.8 | 675.4 | 615.4 | 572.3 | 546.0 | 526.8 | 517.2 |
| 50° | 701.6 | 689.6 | 653.7 | 593.9 | 543.6 | 510.1 | 486.1 | 469.3 | 459.8 |
| 52.5° | 620.2 | 608.3 | 574.8 | 524.5 | 483.7 | 452.5 | 428.6 | 414.2 | 404.7 |
| 55° | 553.1 | 543.6 | 507.7 | 462.2 | 426.3 | 399.9 | 378.3 | 361.6 | 352.1 |
| 57.5° | 490.9 | 481.3 | 447.8 | 404.7 | 373.6 | 349.6 | 330.4 | 316.0 | 304.1 |
| 60° | 433.4 | 426.3 | 392.7 | 352.1 | 325.7 | 301.8 | 285.0 | 273.0 | 265.9 |
| 62.5° | 383.1 | 368.8 | 340.1 | 304.1 | 280.1 | 261.0 | 244.2 | 237.1 | 241.8 |
| 65° | 328.0 | 320.9 | 292.1 | 261.0 | 239.5 | 220.3 | 208.3 | 213.1 | 217.9 |
| 67.5° | 282.6 | 273.0 | 249.1 | 220.3 | 201.2 | 186.8 | 179.7 | 189.2 | 191.5 |
| 70° | 237.1 | 227.5 | 205.9 | 182.0 | 165.3 | 155.6 | 155.6 | 162.9 | 165.3 |
| 72.5° | 193.9 | 186.8 | 167.6 | 148.5 | 136.5 | 129.4 | 134.1 | 138.9 | 141.3 |
| 75° | 155.6 | 148.5 | 134.1 | 117.4 | 105.3 | 105.3 | 110.1 | 115.0 | 117.4 |
| 77.5° | 119.7 | 115.0 | 100.6 | 88.6 | 83.8 | 83.8 | 88.6 | 91.0 | 93.3 |
| 80° | 83.8 | 79.1 | 71.8 | 64.7 | 59.9 | 64.7 | 69.4 | 69.4 | 71.8 |
| 82.5° | 55.1 | 52.7 | 47.9 | 43.2 | 43.2 | 45.5 | 47.9 | 50.3 | 50.3 |
| 85° | 28.8 | 28.8 | 26.4 | 23.9 | 26.4 | 28.8 | 28.8 | 31.2 | 31.2 |
| 87.5° | 9.6 | 9.6 | 9.6 | 9.6 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| 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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