

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: P582285

Luminaire Tested: **HCC6S35D010SL-HM63040827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582285
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: HCC6S35D010SL-HM63040827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

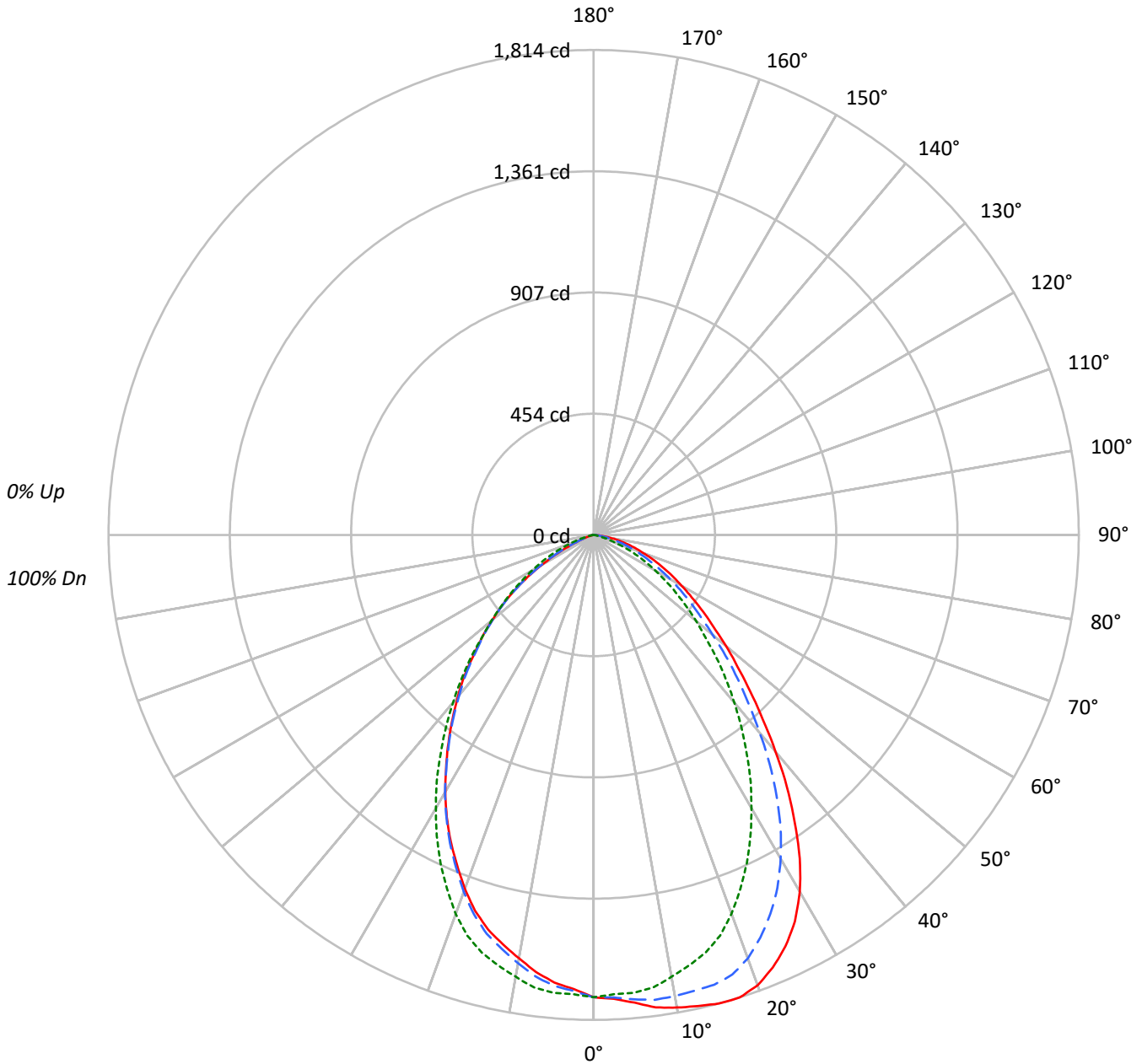
Lumens per Lamp: N/A
Luminaire Lumens: 3081.8 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 33.7
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 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | 54 | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|-------|-------|
| 0° | 94806 | 94806 | 94806 |
| 5° | 96637 | 94629 | 92488 |
| 10° | 99926 | 93424 | 89500 |
| 15° | 102980 | 91800 | 86692 |
| 20° | 104577 | 87974 | 82158 |
| 25° | 102695 | 81948 | 76504 |
| 30° | 97616 | 74670 | 70207 |
| 35° | 87736 | 66736 | 63323 |
| 40° | 75713 | 58488 | 56570 |
| 45° | 64107 | 50346 | 49028 |
| 50° | 54966 | 42532 | 42114 |
| 55° | 47664 | 35803 | 34407 |
| 60° | 41598 | 29066 | 24527 |
| 65° | 36606 | 22402 | 13568 |
| 70° | 31576 | 14810 | 6620 |
| 75° | 26794 | 7223 | 2563 |
| 80° | 20741 | 3062 | 1547 |
| 85° | 12265 | 1572 | 1572 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 163.2 | 5.3 |
| 10°-20° | 461.5 | 15.0 |
| 20°-30° | 649.9 | 21.1 |
| 30°-40° | 664.0 | 21.5 |
| 40°-50° | 535.4 | 17.4 |
| 50°-60° | 359.1 | 11.7 |
| 60°-70° | 181.7 | 5.9 |
| 70°-80° | 58.1 | 1.9 |
| 80°-90° | 9.0 | 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° | 1274.6 | 41.4 |
| 0°-40° | 1938.6 | 62.9 |
| 0°-60° | 2833.0 | 91.9 |
| 0°-90° | 3081.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3081.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1729 | 1729 | 1729 | 1729 | 1729 | |
| 5° | 1756 | 1744 | 1720 | 1693 | 1681 | 169 |
| 15° | 1814 | 1742 | 1618 | 1544 | 1528 | 512 |
| 25° | 1698 | 1564 | 1355 | 1272 | 1265 | 777 |
| 35° | 1311 | 1192 | 997 | 941 | 946 | 816 |
| 45° | 827 | 761 | 649 | 628 | 632 | 643 |
| 55° | 499 | 443 | 375 | 358 | 360 | 449 |
| 65° | 282 | 234 | 173 | 114 | 105 | 282 |
| 75° | 126 | 90 | 34 | 12 | 12 | 136 |
| 85° | 20 | 10 | 2 | 2 | 2 | 26 |
| 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° | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 | 1729.4 |
| 2.5° | 1736.6 | 1734.2 | 1731.8 | 1726.9 | 1719.6 | 1712.3 | 1707.4 | 1702.7 | 1700.2 |
| 5° | 1756.1 | 1751.2 | 1744.0 | 1734.2 | 1719.6 | 1702.7 | 1692.9 | 1683.2 | 1680.7 |
| 7.5° | 1782.8 | 1773.1 | 1753.7 | 1731.8 | 1707.4 | 1683.2 | 1666.1 | 1656.4 | 1649.1 |
| 10° | 1795.1 | 1778.0 | 1751.2 | 1714.8 | 1678.3 | 1649.1 | 1627.1 | 1612.6 | 1607.8 |
| 12.5° | 1804.8 | 1785.3 | 1746.4 | 1697.8 | 1649.1 | 1610.2 | 1585.8 | 1573.7 | 1568.8 |
| 15° | 1814.5 | 1795.1 | 1741.5 | 1678.3 | 1617.5 | 1571.2 | 1544.5 | 1532.4 | 1527.5 |
| 17.5° | 1814.5 | 1787.7 | 1724.5 | 1644.2 | 1571.2 | 1515.3 | 1488.5 | 1476.4 | 1473.9 |
| 20° | 1792.6 | 1763.5 | 1685.6 | 1590.7 | 1508.0 | 1444.7 | 1420.5 | 1413.1 | 1408.3 |
| 22.5° | 1751.2 | 1717.2 | 1629.6 | 1522.6 | 1432.6 | 1371.8 | 1345.1 | 1340.2 | 1335.3 |
| 25° | 1697.8 | 1663.7 | 1564.0 | 1449.6 | 1354.8 | 1294.0 | 1272.0 | 1267.2 | 1264.8 |
| 27.5° | 1629.6 | 1593.2 | 1488.5 | 1371.8 | 1269.7 | 1211.2 | 1191.9 | 1191.9 | 1189.4 |
| 30° | 1542.1 | 1500.8 | 1398.5 | 1281.8 | 1179.6 | 1126.2 | 1111.6 | 1111.6 | 1109.1 |
| 32.5° | 1435.1 | 1393.7 | 1301.3 | 1189.4 | 1092.1 | 1036.2 | 1024.0 | 1028.8 | 1026.4 |
| 35° | 1311.0 | 1276.9 | 1191.9 | 1082.4 | 997.2 | 946.2 | 941.3 | 946.2 | 946.2 |
| 37.5° | 1187.0 | 1155.3 | 1082.4 | 987.5 | 907.2 | 861.0 | 861.0 | 868.4 | 865.9 |
| 40° | 1058.0 | 1033.7 | 965.6 | 883.0 | 817.3 | 785.6 | 780.7 | 788.1 | 790.5 |
| 42.5° | 936.4 | 916.9 | 858.6 | 790.5 | 732.1 | 700.6 | 707.8 | 712.7 | 715.1 |
| 45° | 826.9 | 807.6 | 761.4 | 690.7 | 649.4 | 627.5 | 627.5 | 634.8 | 632.4 |
| 47.5° | 729.7 | 715.1 | 668.9 | 600.8 | 564.2 | 554.6 | 559.5 | 564.2 | 564.2 |
| 50° | 644.5 | 622.7 | 578.8 | 525.4 | 498.7 | 486.4 | 491.3 | 493.8 | 493.8 |
| 52.5° | 564.2 | 549.7 | 505.9 | 457.2 | 433.0 | 425.6 | 425.6 | 428.1 | 428.1 |
| 55° | 498.7 | 481.6 | 442.6 | 394.0 | 374.6 | 364.8 | 357.6 | 355.1 | 360.0 |
| 57.5° | 435.4 | 420.8 | 384.3 | 338.1 | 316.1 | 306.5 | 291.9 | 287.0 | 291.9 |
| 60° | 379.4 | 367.3 | 330.8 | 287.0 | 265.1 | 245.7 | 228.6 | 218.9 | 223.7 |
| 62.5° | 330.8 | 316.1 | 279.7 | 243.2 | 218.9 | 197.0 | 170.3 | 155.7 | 162.9 |
| 65° | 282.2 | 269.9 | 233.5 | 197.0 | 172.7 | 146.0 | 114.4 | 104.6 | 104.6 |
| 67.5° | 238.4 | 226.2 | 192.2 | 160.6 | 131.3 | 99.8 | 70.5 | 68.2 | 70.5 |
| 70° | 197.0 | 184.9 | 155.7 | 124.1 | 92.4 | 60.8 | 41.3 | 41.3 | 41.3 |
| 72.5° | 162.9 | 148.3 | 121.6 | 90.0 | 58.4 | 31.6 | 21.9 | 24.3 | 24.3 |
| 75° | 126.5 | 114.4 | 90.0 | 60.8 | 34.1 | 14.6 | 12.1 | 12.1 | 12.1 |
| 77.5° | 94.9 | 85.1 | 63.3 | 38.9 | 17.0 | 4.9 | 4.9 | 4.9 | 4.9 |
| 80° | 65.7 | 55.9 | 41.3 | 24.3 | 9.7 | 4.9 | 4.9 | 4.9 | 4.9 |
| 82.5° | 38.9 | 34.1 | 24.3 | 12.1 | 4.9 | 2.5 | 2.5 | 2.5 | 2.5 |
| 85° | 19.5 | 17.0 | 9.7 | 4.9 | 2.5 | 2.5 | 2.5 | 2.5 | 2.5 |
| 87.5° | 4.9 | 4.9 | 2.5 | 2.5 | 0.0 | 2.5 | 2.5 | 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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