

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: P582152

Luminaire Tested: **HCC6W30D010SL-HM63040830-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W30D010SL-HM63040830-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

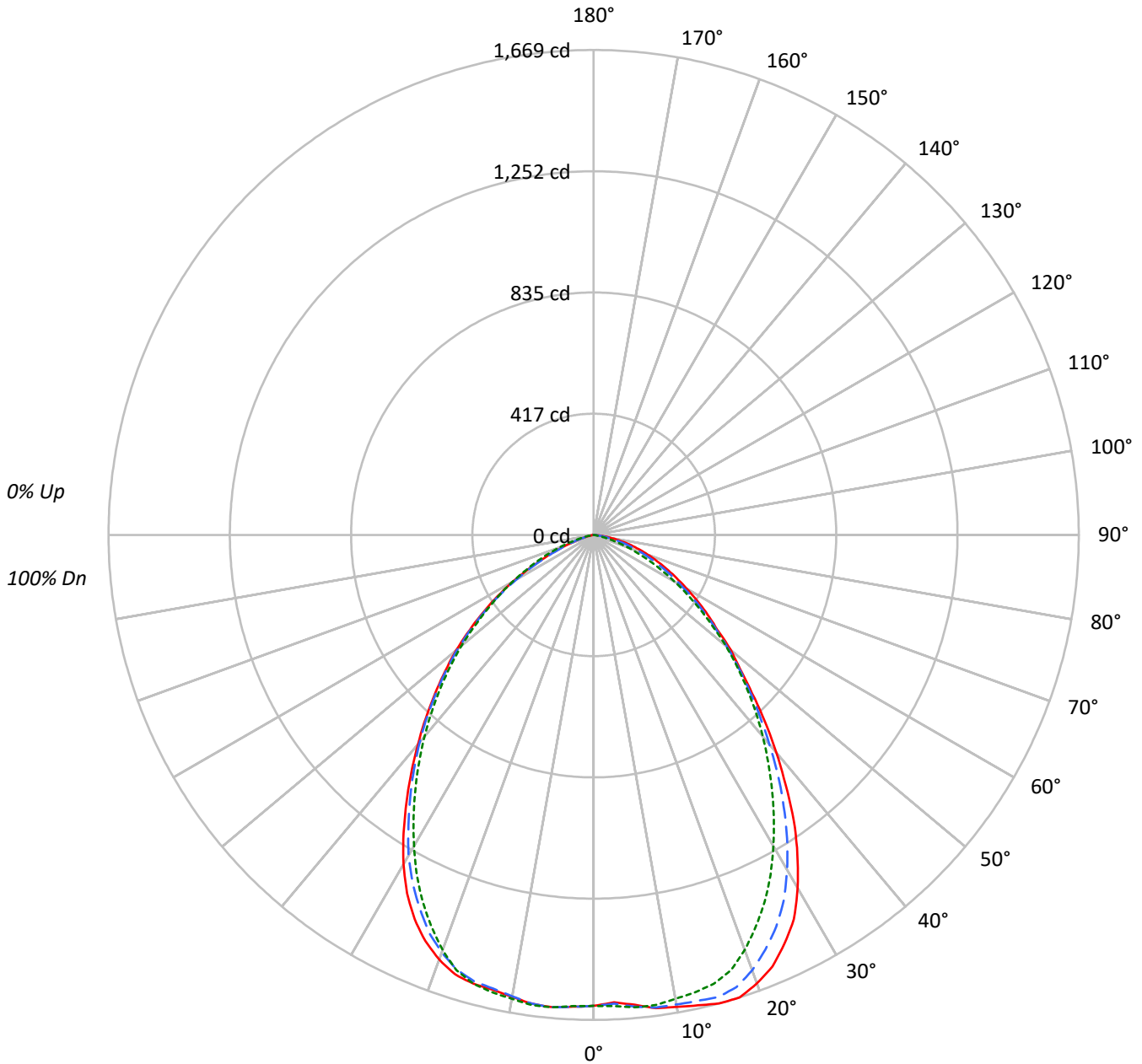
Lumens per Lamp: N/A
Luminaire Lumens: 3272.3 lumens
Efficiency: N/A
Efficacy: 116.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): 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 | | | | | | | | | 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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 88863 | 88863 | 88863 |
| 5° | 89319 | 89803 | 89803 |
| 10° | 91821 | 90234 | 89861 |
| 15° | 94734 | 90750 | 90750 |
| 20° | 95838 | 88669 | 90716 |
| 25° | 93925 | 84223 | 88215 |
| 30° | 88843 | 78278 | 82861 |
| 35° | 80401 | 71581 | 75108 |
| 40° | 69945 | 64757 | 67269 |
| 45° | 59766 | 57727 | 59766 |
| 50° | 52450 | 50583 | 52638 |
| 55° | 45762 | 42617 | 44299 |
| 60° | 40446 | 35392 | 34909 |
| 65° | 35905 | 27915 | 23933 |
| 70° | 31688 | 19699 | 14426 |
| 75° | 26963 | 11162 | 6969 |
| 80° | 20110 | 3441 | 2052 |
| 85° | 11070 | 1321 | 1321 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 155.5 | 4.8 |
| 10°-20° | 454.9 | 13.9 |
| 20°-30° | 664.4 | 20.3 |
| 30°-40° | 696.8 | 21.3 |
| 40°-50° | 587.0 | 17.9 |
| 50°-60° | 411.3 | 12.6 |
| 60°-70° | 220.5 | 6.7 |
| 70°-80° | 73.9 | 2.3 |
| 80°-90° | 8.0 | 0.2 |
| 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° | 1274.8 | 39.0 |
| 0°-40° | 1971.6 | 60.3 |
| 0°-60° | 2969.9 | 90.8 |
| 0°-90° | 3272.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3272.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1621 | 1621 | 1621 | 1621 | 1621 | |
| 5° | 1623 | 1630 | 1632 | 1632 | 1632 | 156 |
| 15° | 1669 | 1647 | 1599 | 1590 | 1599 | 471 |
| 25° | 1553 | 1487 | 1392 | 1417 | 1458 | 711 |
| 35° | 1201 | 1140 | 1070 | 1100 | 1122 | 746 |
| 45° | 771 | 758 | 745 | 764 | 771 | 601 |
| 55° | 479 | 464 | 446 | 455 | 464 | 431 |
| 65° | 277 | 252 | 215 | 178 | 184 | 276 |
| 75° | 127 | 99 | 53 | 33 | 33 | 135 |
| 85° | 18 | 9 | 2 | 2 | 2 | 24 |
| 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° | 1621.0 | 1621.0 | 1621.0 | 1621.0 | 1621.0 | 1621.0 | 1621.0 | 1621.0 | 1621.0 |
| 2.5° | 1609.9 | 1609.9 | 1614.3 | 1618.7 | 1623.1 | 1623.1 | 1625.2 | 1627.5 | 1625.2 |
| 5° | 1623.1 | 1623.1 | 1629.6 | 1631.9 | 1631.9 | 1629.6 | 1631.9 | 1631.9 | 1631.9 |
| 7.5° | 1642.8 | 1638.4 | 1640.7 | 1636.3 | 1631.9 | 1629.6 | 1627.5 | 1627.5 | 1627.5 |
| 10° | 1649.5 | 1645.1 | 1640.7 | 1631.9 | 1621.0 | 1614.3 | 1612.2 | 1614.3 | 1614.3 |
| 12.5° | 1658.3 | 1653.9 | 1642.8 | 1625.2 | 1612.2 | 1601.1 | 1599.0 | 1603.4 | 1603.4 |
| 15° | 1669.2 | 1664.8 | 1647.2 | 1618.7 | 1599.0 | 1587.9 | 1590.2 | 1594.6 | 1599.0 |
| 17.5° | 1669.2 | 1660.4 | 1631.9 | 1594.6 | 1570.4 | 1559.4 | 1568.2 | 1579.2 | 1585.8 |
| 20° | 1642.8 | 1634.0 | 1594.6 | 1548.4 | 1519.9 | 1513.2 | 1528.7 | 1548.4 | 1555.0 |
| 22.5° | 1607.8 | 1590.2 | 1544.0 | 1489.1 | 1458.4 | 1458.4 | 1480.3 | 1504.4 | 1513.2 |
| 25° | 1552.8 | 1539.6 | 1487.0 | 1423.2 | 1392.4 | 1390.3 | 1416.7 | 1449.6 | 1458.4 |
| 27.5° | 1491.4 | 1473.8 | 1416.7 | 1350.7 | 1317.8 | 1320.0 | 1348.6 | 1381.5 | 1390.3 |
| 30° | 1403.5 | 1381.5 | 1331.0 | 1267.2 | 1236.6 | 1245.4 | 1273.9 | 1298.0 | 1309.0 |
| 32.5° | 1304.7 | 1284.8 | 1238.7 | 1179.5 | 1153.1 | 1161.9 | 1186.0 | 1208.0 | 1216.8 |
| 35° | 1201.4 | 1179.5 | 1139.9 | 1087.2 | 1069.6 | 1078.4 | 1100.4 | 1117.9 | 1122.3 |
| 37.5° | 1085.0 | 1069.6 | 1041.1 | 999.4 | 986.2 | 997.1 | 1014.7 | 1025.8 | 1030.0 |
| 40° | 977.4 | 964.2 | 940.0 | 909.3 | 904.9 | 913.6 | 931.2 | 937.9 | 940.0 |
| 42.5° | 871.9 | 861.0 | 845.6 | 823.6 | 823.6 | 832.4 | 847.8 | 852.2 | 854.4 |
| 45° | 770.9 | 764.3 | 757.7 | 740.2 | 744.6 | 755.5 | 764.3 | 770.9 | 770.9 |
| 47.5° | 683.1 | 685.2 | 676.4 | 663.3 | 667.7 | 678.7 | 685.2 | 691.9 | 691.9 |
| 50° | 615.0 | 608.4 | 599.6 | 586.4 | 593.1 | 601.8 | 610.6 | 615.0 | 617.2 |
| 52.5° | 535.9 | 533.7 | 527.1 | 511.7 | 516.1 | 520.5 | 529.3 | 535.9 | 538.1 |
| 55° | 478.8 | 472.3 | 463.5 | 445.9 | 445.9 | 450.3 | 454.7 | 459.1 | 463.5 |
| 57.5° | 423.9 | 417.3 | 404.1 | 384.4 | 382.1 | 382.1 | 380.0 | 384.4 | 390.9 |
| 60° | 368.9 | 366.8 | 347.1 | 329.5 | 322.8 | 316.3 | 307.5 | 309.7 | 318.4 |
| 62.5° | 320.7 | 316.3 | 298.7 | 276.8 | 263.6 | 252.5 | 241.6 | 239.3 | 248.1 |
| 65° | 276.8 | 272.4 | 252.5 | 230.7 | 215.2 | 195.5 | 177.9 | 177.9 | 184.5 |
| 67.5° | 237.2 | 228.4 | 210.8 | 186.7 | 166.9 | 142.8 | 125.2 | 129.6 | 131.7 |
| 70° | 197.7 | 191.1 | 171.3 | 147.2 | 122.9 | 98.8 | 87.9 | 90.0 | 90.0 |
| 72.5° | 162.5 | 153.7 | 134.0 | 109.9 | 85.6 | 63.7 | 59.3 | 57.1 | 57.1 |
| 75° | 127.3 | 118.7 | 98.8 | 74.7 | 52.7 | 37.3 | 32.9 | 32.9 | 32.9 |
| 77.5° | 92.3 | 85.6 | 68.1 | 46.1 | 28.5 | 17.6 | 15.3 | 13.2 | 13.2 |
| 80° | 63.7 | 57.1 | 41.7 | 24.1 | 10.9 | 6.5 | 6.5 | 6.5 | 6.5 |
| 82.5° | 37.3 | 30.8 | 19.7 | 10.9 | 4.4 | 2.1 | 2.1 | 2.1 | 2.1 |
| 85° | 17.6 | 13.2 | 8.8 | 4.4 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 87.5° | 2.1 | 2.1 | 2.1 | 0.0 | 0.0 | 0.0 | 0.0 | 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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