

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: P582476

Luminaire Tested: **HCC6W40D010SL-HM63040840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582476
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: HCC6W40D010SL-HM63040840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

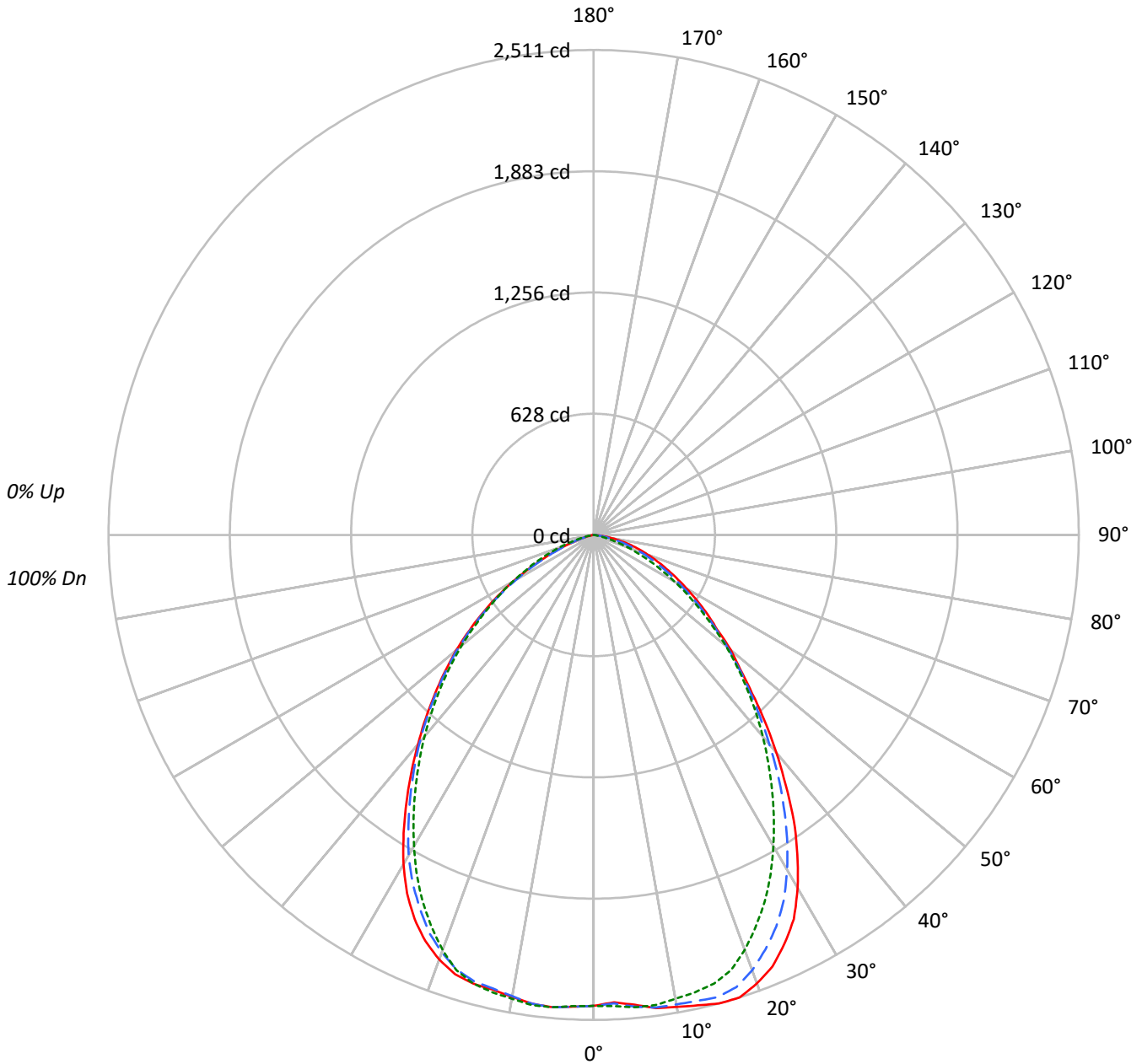
Lumens per Lamp: N/A
Luminaire Lumens: 4922.9 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 41
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 | | | | | | | | | 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° | 133674 | 133674 | 133674 |
| 5° | 134366 | 135092 | 135092 |
| 10° | 138129 | 135736 | 135185 |
| 15° | 142515 | 136510 | 136510 |
| 20° | 144178 | 133391 | 136465 |
| 25° | 141292 | 126709 | 132703 |
| 30° | 133647 | 117752 | 124658 |
| 35° | 120950 | 107679 | 113000 |
| 40° | 105219 | 97418 | 101197 |
| 45° | 89916 | 86838 | 89916 |
| 50° | 78897 | 76091 | 79179 |
| 55° | 68843 | 64103 | 66636 |
| 60° | 60850 | 53252 | 52529 |
| 65° | 54001 | 42002 | 35996 |
| 70° | 47668 | 29668 | 21718 |
| 75° | 40604 | 16796 | 10506 |
| 80° | 30244 | 5209 | 3125 |
| 85° | 16605 | 2076 | 2076 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 233.9 | 4.8 |
| 10°-20° | 684.3 | 13.9 |
| 20°-30° | 999.5 | 20.3 |
| 30°-40° | 1048.2 | 21.3 |
| 40°-50° | 883.1 | 17.9 |
| 50°-60° | 618.7 | 12.6 |
| 60°-70° | 331.7 | 6.7 |
| 70°-80° | 111.3 | 2.3 |
| 80°-90° | 12.1 | 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° | 1917.7 | 39.0 |
| 0°-40° | 2966.0 | 60.2 |
| 0°-60° | 4467.8 | 90.8 |
| 0°-90° | 4922.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4922.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2438 | 2438 | 2438 | 2438 | 2438 | |
| 5° | 2442 | 2452 | 2455 | 2455 | 2455 | 235 |
| 15° | 2511 | 2478 | 2405 | 2392 | 2405 | 708 |
| 25° | 2336 | 2237 | 2095 | 2131 | 2194 | 1070 |
| 35° | 1807 | 1715 | 1609 | 1655 | 1688 | 1122 |
| 45° | 1160 | 1140 | 1120 | 1150 | 1160 | 903 |
| 55° | 720 | 697 | 671 | 684 | 697 | 648 |
| 65° | 416 | 380 | 324 | 268 | 278 | 416 |
| 75° | 192 | 149 | 79 | 50 | 50 | 203 |
| 85° | 26 | 13 | 3 | 3 | 3 | 36 |
| 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° | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 | 2438.4 |
| 2.5° | 2421.9 | 2421.9 | 2428.5 | 2435.1 | 2441.7 | 2441.7 | 2445.0 | 2448.3 | 2445.0 |
| 5° | 2441.7 | 2441.7 | 2451.6 | 2454.9 | 2454.9 | 2451.6 | 2454.9 | 2454.9 | 2454.9 |
| 7.5° | 2471.4 | 2464.8 | 2468.1 | 2461.5 | 2454.9 | 2451.6 | 2448.3 | 2448.3 | 2448.3 |
| 10° | 2481.4 | 2474.8 | 2468.1 | 2454.9 | 2438.4 | 2428.5 | 2425.2 | 2428.5 | 2428.5 |
| 12.5° | 2494.6 | 2488.0 | 2471.4 | 2445.0 | 2425.2 | 2408.8 | 2405.3 | 2412.1 | 2412.1 |
| 15° | 2511.1 | 2504.5 | 2478.1 | 2435.1 | 2405.3 | 2388.8 | 2392.1 | 2398.7 | 2405.3 |
| 17.5° | 2511.1 | 2497.9 | 2454.9 | 2398.7 | 2362.5 | 2346.0 | 2359.2 | 2375.7 | 2385.5 |
| 20° | 2471.4 | 2458.2 | 2398.7 | 2329.4 | 2286.5 | 2276.6 | 2299.7 | 2329.4 | 2339.2 |
| 22.5° | 2418.7 | 2392.1 | 2322.8 | 2240.2 | 2193.9 | 2193.9 | 2227.0 | 2263.3 | 2276.6 |
| 25° | 2335.9 | 2316.2 | 2236.9 | 2141.0 | 2094.8 | 2091.5 | 2131.1 | 2180.7 | 2193.9 |
| 27.5° | 2243.5 | 2217.1 | 2131.1 | 2032.1 | 1982.5 | 1985.8 | 2028.8 | 2078.2 | 2091.5 |
| 30° | 2111.3 | 2078.2 | 2002.2 | 1906.5 | 1860.2 | 1873.4 | 1916.4 | 1952.8 | 1969.3 |
| 32.5° | 1962.7 | 1932.9 | 1863.5 | 1774.3 | 1734.6 | 1747.8 | 1784.2 | 1817.3 | 1830.5 |
| 35° | 1807.3 | 1774.3 | 1714.8 | 1635.6 | 1609.0 | 1622.4 | 1655.3 | 1681.7 | 1688.5 |
| 37.5° | 1632.3 | 1609.0 | 1566.2 | 1503.4 | 1483.5 | 1500.1 | 1526.5 | 1543.0 | 1549.6 |
| 40° | 1470.3 | 1450.5 | 1414.1 | 1367.9 | 1361.3 | 1374.5 | 1400.9 | 1410.8 | 1414.1 |
| 42.5° | 1311.7 | 1295.3 | 1272.0 | 1239.1 | 1239.1 | 1252.3 | 1275.3 | 1281.9 | 1285.2 |
| 45° | 1159.8 | 1149.8 | 1139.9 | 1113.5 | 1120.1 | 1136.6 | 1149.8 | 1159.8 | 1159.8 |
| 47.5° | 1027.6 | 1030.9 | 1017.6 | 997.8 | 1004.4 | 1020.9 | 1030.9 | 1040.8 | 1040.8 |
| 50° | 925.1 | 915.3 | 902.1 | 882.1 | 892.2 | 905.4 | 918.6 | 925.1 | 928.4 |
| 52.5° | 806.2 | 802.9 | 793.0 | 769.9 | 776.5 | 783.1 | 796.3 | 806.2 | 809.5 |
| 55° | 720.3 | 710.4 | 697.2 | 670.7 | 670.7 | 677.3 | 683.9 | 690.5 | 697.2 |
| 57.5° | 637.7 | 627.8 | 607.9 | 578.2 | 575.0 | 575.0 | 571.7 | 578.2 | 588.1 |
| 60° | 555.0 | 551.7 | 522.1 | 495.7 | 485.7 | 475.8 | 462.6 | 465.9 | 479.1 |
| 62.5° | 482.4 | 475.8 | 449.4 | 416.3 | 396.5 | 380.0 | 363.5 | 360.1 | 373.4 |
| 65° | 416.3 | 409.7 | 380.0 | 346.9 | 323.8 | 294.0 | 267.6 | 267.6 | 277.5 |
| 67.5° | 356.8 | 343.6 | 317.2 | 280.8 | 251.1 | 214.7 | 188.4 | 194.9 | 198.2 |
| 70° | 297.4 | 287.4 | 257.7 | 221.3 | 185.1 | 148.7 | 132.2 | 135.5 | 135.5 |
| 72.5° | 244.5 | 231.4 | 201.5 | 165.3 | 128.9 | 95.8 | 89.2 | 85.9 | 85.9 |
| 75° | 191.7 | 178.5 | 148.7 | 112.4 | 79.3 | 56.2 | 49.6 | 49.6 | 49.6 |
| 77.5° | 138.8 | 128.9 | 102.5 | 69.4 | 43.0 | 26.4 | 23.1 | 19.8 | 19.8 |
| 80° | 95.8 | 85.9 | 62.8 | 36.4 | 16.5 | 9.9 | 9.9 | 9.9 | 9.9 |
| 82.5° | 56.2 | 46.3 | 29.7 | 16.5 | 6.6 | 3.3 | 3.3 | 3.3 | 3.3 |
| 85° | 26.4 | 19.8 | 13.2 | 6.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 87.5° | 3.3 | 3.3 | 3.3 | 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



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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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