

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: P582465

Luminaire Tested: **HCC6W40D010MB-HM63040835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582465
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: HCC6W40D010MB-HM63040835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

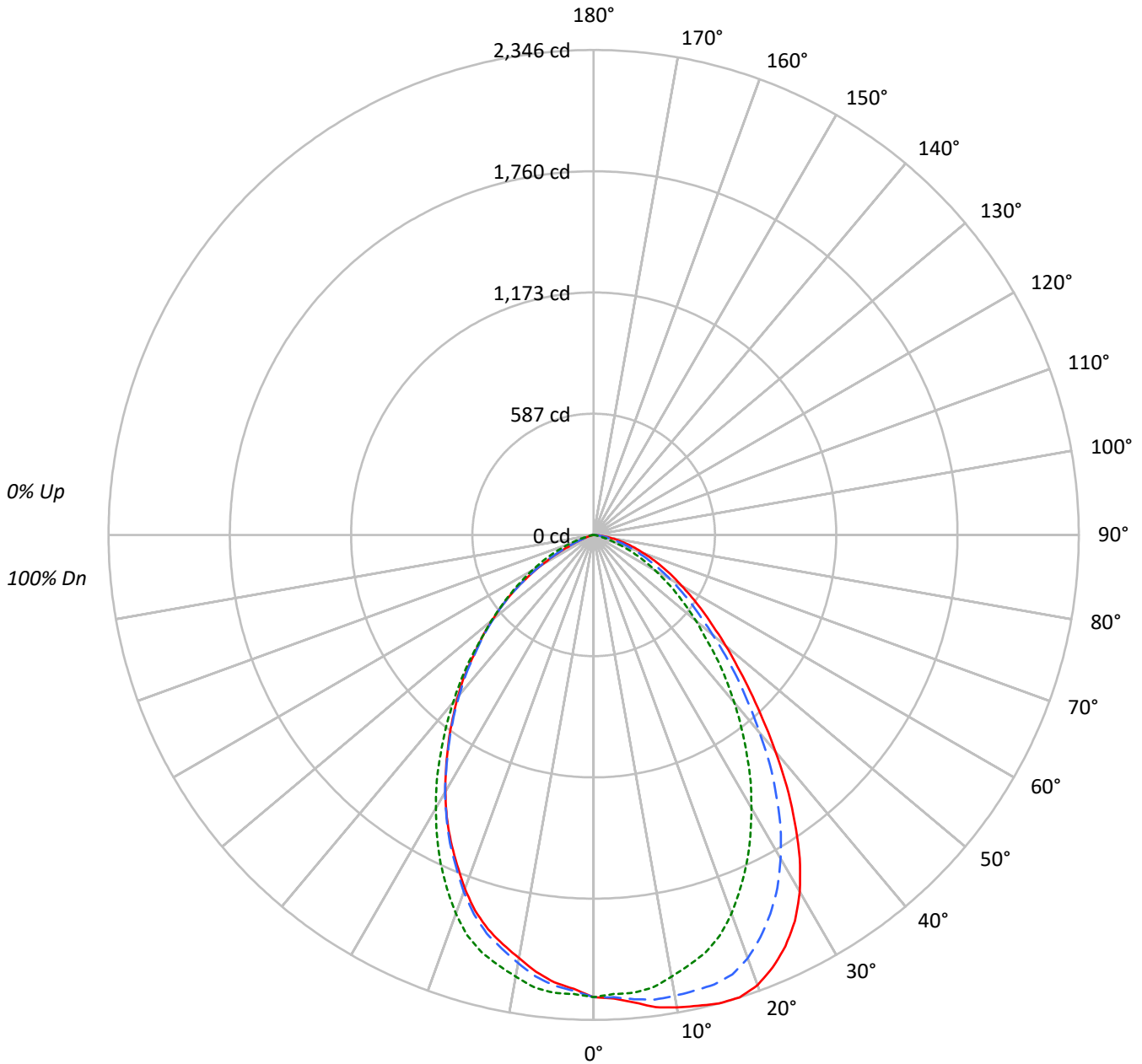
Lumens per Lamp: N/A
Luminaire Lumens: 3984.1 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | | 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° | 122561 | 122561 | 122561 |
| 5° | 124934 | 122331 | 119568 |
| 10° | 129173 | 120773 | 115701 |
| 15° | 133128 | 118673 | 112072 |
| 20° | 135199 | 113731 | 106211 |
| 25° | 132758 | 105944 | 98897 |
| 30° | 126190 | 96534 | 90767 |
| 35° | 113421 | 86277 | 81860 |
| 40° | 97883 | 75606 | 73137 |
| 45° | 82877 | 65084 | 63379 |
| 50° | 71059 | 54975 | 54437 |
| 55° | 61608 | 46278 | 44472 |
| 60° | 53779 | 37574 | 31719 |
| 65° | 47307 | 28965 | 17538 |
| 70° | 40824 | 19154 | 8559 |
| 75° | 34652 | 9341 | 3325 |
| 80° | 26803 | 3946 | 1989 |
| 85° | 15851 | 2013 | 2013 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 211.0 | 5.3 |
| 10°-20° | 596.6 | 15.0 |
| 20°-30° | 840.2 | 21.1 |
| 30°-40° | 858.4 | 21.5 |
| 40°-50° | 692.1 | 17.4 |
| 50°-60° | 464.2 | 11.7 |
| 60°-70° | 234.9 | 5.9 |
| 70°-80° | 75.1 | 1.9 |
| 80°-90° | 11.6 | 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° | 1647.7 | 41.4 |
| 0°-40° | 2506.2 | 62.9 |
| 0°-60° | 3662.5 | 91.9 |
| 0°-90° | 3984.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3984.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 2236 | 2236 | 2236 | 2236 | 2236 | |
| 5° | 2270 | 2255 | 2223 | 2188 | 2173 | 219 |
| 15° | 2346 | 2251 | 2091 | 1997 | 1975 | 662 |
| 25° | 2195 | 2022 | 1752 | 1644 | 1635 | 1005 |
| 35° | 1695 | 1541 | 1289 | 1217 | 1223 | 1055 |
| 45° | 1069 | 984 | 840 | 811 | 818 | 831 |
| 55° | 645 | 572 | 484 | 462 | 465 | 580 |
| 65° | 365 | 302 | 223 | 148 | 135 | 364 |
| 75° | 164 | 116 | 44 | 16 | 16 | 176 |
| 85° | 25 | 12 | 3 | 3 | 3 | 34 |
| 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° | 2235.7 | 2235.7 | 2235.7 | 2235.7 | 2235.7 | 2235.7 | 2235.7 | 2235.7 | 2235.7 |
| 2.5° | 2245.1 | 2241.9 | 2238.9 | 2232.5 | 2223.0 | 2213.7 | 2207.3 | 2201.1 | 2198.0 |
| 5° | 2270.3 | 2263.9 | 2254.6 | 2241.9 | 2223.0 | 2201.1 | 2188.5 | 2176.0 | 2172.8 |
| 7.5° | 2304.8 | 2292.3 | 2267.1 | 2238.9 | 2207.3 | 2176.0 | 2153.9 | 2141.4 | 2131.9 |
| 10° | 2320.5 | 2298.6 | 2263.9 | 2216.8 | 2169.6 | 2131.9 | 2103.7 | 2084.7 | 2078.5 |
| 12.5° | 2333.2 | 2308.0 | 2257.7 | 2194.8 | 2131.9 | 2081.6 | 2050.1 | 2034.4 | 2028.1 |
| 15° | 2345.7 | 2320.5 | 2251.4 | 2169.6 | 2091.0 | 2031.3 | 1996.7 | 1981.0 | 1974.7 |
| 17.5° | 2345.7 | 2311.2 | 2229.4 | 2125.6 | 2031.3 | 1959.0 | 1924.4 | 1908.6 | 1905.6 |
| 20° | 2317.5 | 2279.8 | 2179.1 | 2056.5 | 1949.5 | 1867.8 | 1836.3 | 1826.9 | 1820.6 |
| 22.5° | 2263.9 | 2220.0 | 2106.7 | 1968.3 | 1852.0 | 1773.4 | 1738.8 | 1732.5 | 1726.3 |
| 25° | 2194.8 | 2150.8 | 2021.9 | 1874.0 | 1751.5 | 1672.9 | 1644.5 | 1638.2 | 1635.0 |
| 27.5° | 2106.7 | 2059.6 | 1924.4 | 1773.4 | 1641.4 | 1565.9 | 1540.7 | 1540.7 | 1537.6 |
| 30° | 1993.5 | 1940.1 | 1808.1 | 1657.1 | 1525.0 | 1455.9 | 1437.1 | 1437.1 | 1433.9 |
| 32.5° | 1855.2 | 1801.8 | 1682.3 | 1537.6 | 1411.9 | 1339.6 | 1323.7 | 1330.1 | 1326.9 |
| 35° | 1694.8 | 1650.9 | 1540.7 | 1399.3 | 1289.2 | 1223.2 | 1216.9 | 1223.2 | 1223.2 |
| 37.5° | 1534.5 | 1493.6 | 1399.3 | 1276.7 | 1172.9 | 1113.1 | 1113.1 | 1122.6 | 1119.4 |
| 40° | 1367.8 | 1336.4 | 1248.3 | 1141.5 | 1056.5 | 1015.6 | 1009.3 | 1018.8 | 1022.0 |
| 42.5° | 1210.6 | 1185.4 | 1109.9 | 1022.0 | 946.5 | 905.6 | 915.0 | 921.3 | 924.5 |
| 45° | 1069.0 | 1044.0 | 984.2 | 893.0 | 839.5 | 811.3 | 811.3 | 820.7 | 817.5 |
| 47.5° | 943.3 | 924.5 | 864.7 | 776.6 | 729.5 | 716.9 | 723.2 | 729.5 | 729.5 |
| 50° | 833.2 | 805.0 | 748.4 | 679.2 | 644.6 | 628.9 | 635.2 | 638.3 | 638.3 |
| 52.5° | 729.5 | 710.7 | 654.1 | 591.2 | 559.7 | 550.3 | 550.3 | 553.5 | 553.5 |
| 55° | 644.6 | 622.6 | 572.3 | 509.4 | 484.2 | 471.7 | 462.2 | 459.1 | 465.3 |
| 57.5° | 562.8 | 544.0 | 496.9 | 437.1 | 408.8 | 396.2 | 377.4 | 371.0 | 377.4 |
| 60° | 490.5 | 474.8 | 427.6 | 371.0 | 342.7 | 317.6 | 295.6 | 283.1 | 289.3 |
| 62.5° | 427.6 | 408.8 | 361.7 | 314.4 | 283.1 | 254.7 | 220.1 | 201.3 | 210.6 |
| 65° | 364.7 | 349.0 | 301.9 | 254.7 | 223.3 | 188.6 | 147.7 | 135.2 | 135.2 |
| 67.5° | 308.1 | 292.4 | 248.4 | 207.5 | 169.8 | 128.9 | 91.1 | 88.1 | 91.1 |
| 70° | 254.7 | 239.0 | 201.3 | 160.4 | 119.5 | 78.6 | 53.4 | 53.4 | 53.4 |
| 72.5° | 210.6 | 191.8 | 157.2 | 116.3 | 75.4 | 40.9 | 28.4 | 31.4 | 31.4 |
| 75° | 163.6 | 147.7 | 116.3 | 78.6 | 44.1 | 18.9 | 15.7 | 15.7 | 15.7 |
| 77.5° | 122.7 | 110.0 | 81.8 | 50.3 | 22.0 | 6.3 | 6.3 | 6.3 | 6.3 |
| 80° | 84.9 | 72.3 | 53.4 | 31.4 | 12.5 | 6.3 | 6.3 | 6.3 | 6.3 |
| 82.5° | 50.3 | 44.1 | 31.4 | 15.7 | 6.3 | 3.2 | 3.2 | 3.2 | 3.2 |
| 85° | 25.2 | 22.0 | 12.5 | 6.3 | 3.2 | 3.2 | 3.2 | 3.2 | 3.2 |
| 87.5° | 6.3 | 6.3 | 3.2 | 3.2 | 0.0 | 3.2 | 3.2 | 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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