

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: P581936

Luminaire Tested: **HCC6W20D010MB-HM60525930-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581936
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: HCC6W20D010MB-HM60525930-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

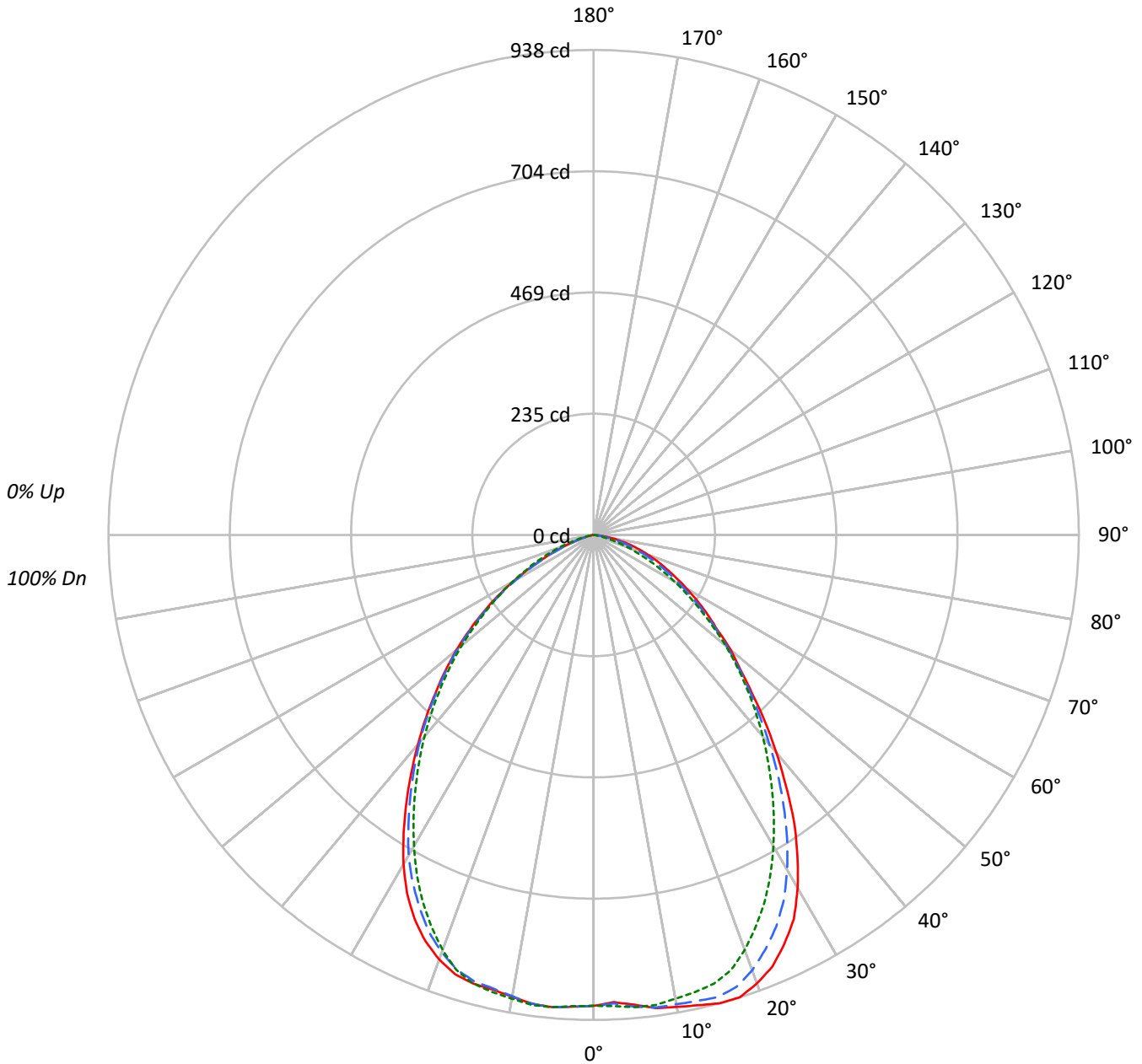
Lumens per Lamp: N/A
Luminaire Lumens: 1838.7 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 20
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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | | | 68 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | 60 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 49930 | 49930 | 49930 |
| 5° | 50187 | 50457 | 50457 |
| 10° | 51591 | 50700 | 50495 |
| 15° | 53230 | 50993 | 50993 |
| 20° | 53858 | 49827 | 50976 |
| 25° | 52775 | 47325 | 49569 |
| 30° | 49919 | 43981 | 46558 |
| 35° | 45173 | 40227 | 42202 |
| 40° | 39302 | 36390 | 37799 |
| 45° | 33577 | 32437 | 33577 |
| 50° | 29475 | 28417 | 29577 |
| 55° | 25720 | 23942 | 24888 |
| 60° | 22728 | 19889 | 19615 |
| 65° | 20158 | 15683 | 13452 |
| 70° | 17791 | 11076 | 8110 |
| 75° | 15166 | 6270 | 3918 |
| 80° | 11302 | 1926 | 1168 |
| 85° | 6227 | 755 | 755 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.4 | 4.8 |
| 10°-20° | 255.6 | 13.9 |
| 20°-30° | 373.3 | 20.3 |
| 30°-40° | 391.5 | 21.3 |
| 40°-50° | 329.8 | 17.9 |
| 50°-60° | 231.1 | 12.6 |
| 60°-70° | 123.9 | 6.7 |
| 70°-80° | 41.5 | 2.3 |
| 80°-90° | 4.5 | 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° | 716.3 | 39.0 |
| 0°-40° | 1107.8 | 60.2 |
| 0°-60° | 1668.8 | 90.8 |
| 0°-90° | 1838.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1838.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 911 | 911 | 911 | 911 | 911 | |
| 5° | 912 | 916 | 917 | 917 | 917 | 88 |
| 15° | 938 | 926 | 898 | 894 | 898 | 265 |
| 25° | 872 | 836 | 782 | 796 | 820 | 400 |
| 35° | 675 | 640 | 601 | 618 | 631 | 419 |
| 45° | 433 | 426 | 418 | 430 | 433 | 337 |
| 55° | 269 | 260 | 250 | 256 | 260 | 242 |
| 65° | 155 | 142 | 121 | 100 | 104 | 155 |
| 75° | 72 | 56 | 30 | 18 | 18 | 76 |
| 85° | 10 | 5 | 1 | 1 | 1 | 14 |
| 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° | 910.8 | 910.8 | 910.8 | 910.8 | 910.8 | 910.8 | 910.8 | 910.8 | 910.8 |
| 2.5° | 904.6 | 904.6 | 907.1 | 909.6 | 912.0 | 912.0 | 913.2 | 914.4 | 913.2 |
| 5° | 912.0 | 912.0 | 915.7 | 916.9 | 916.9 | 915.7 | 916.9 | 916.9 | 916.9 |
| 7.5° | 923.2 | 920.7 | 921.9 | 919.4 | 916.9 | 915.7 | 914.4 | 914.4 | 914.4 |
| 10° | 926.8 | 924.3 | 921.9 | 916.9 | 910.8 | 907.1 | 905.8 | 907.1 | 907.1 |
| 12.5° | 931.8 | 929.3 | 923.2 | 913.2 | 905.8 | 899.7 | 898.5 | 900.8 | 900.8 |
| 15° | 937.9 | 935.4 | 925.5 | 909.6 | 898.5 | 892.2 | 893.5 | 896.0 | 898.5 |
| 17.5° | 937.9 | 933.0 | 916.9 | 896.0 | 882.4 | 876.3 | 881.1 | 887.4 | 891.0 |
| 20° | 923.2 | 918.2 | 896.0 | 870.0 | 854.1 | 850.3 | 858.9 | 870.0 | 873.8 |
| 22.5° | 903.3 | 893.5 | 867.5 | 836.7 | 819.5 | 819.5 | 831.7 | 845.3 | 850.3 |
| 25° | 872.5 | 865.2 | 835.5 | 799.7 | 782.4 | 781.2 | 796.0 | 814.5 | 819.5 |
| 27.5° | 838.0 | 828.1 | 796.0 | 759.0 | 740.4 | 741.7 | 757.8 | 776.2 | 781.2 |
| 30° | 788.6 | 776.2 | 747.9 | 712.1 | 694.8 | 699.7 | 715.8 | 729.3 | 735.5 |
| 32.5° | 733.1 | 721.9 | 696.0 | 662.7 | 648.0 | 652.8 | 666.4 | 678.8 | 683.7 |
| 35° | 675.0 | 662.7 | 640.5 | 610.9 | 601.1 | 605.9 | 618.3 | 628.1 | 630.6 |
| 37.5° | 609.7 | 601.1 | 585.0 | 561.5 | 554.2 | 560.3 | 570.1 | 576.4 | 578.8 |
| 40° | 549.2 | 541.8 | 528.2 | 510.9 | 508.5 | 513.4 | 523.2 | 527.0 | 528.2 |
| 42.5° | 489.9 | 483.8 | 475.2 | 462.8 | 462.8 | 467.7 | 476.3 | 478.8 | 480.1 |
| 45° | 433.1 | 429.5 | 425.8 | 415.9 | 418.4 | 424.5 | 429.5 | 433.1 | 433.1 |
| 47.5° | 383.9 | 385.0 | 380.1 | 372.6 | 375.1 | 381.4 | 385.0 | 388.7 | 388.7 |
| 50° | 345.6 | 341.8 | 337.0 | 329.5 | 333.2 | 338.2 | 343.1 | 345.6 | 346.8 |
| 52.5° | 301.2 | 299.9 | 296.2 | 287.6 | 290.0 | 292.4 | 297.4 | 301.2 | 302.4 |
| 55° | 269.1 | 265.3 | 260.4 | 250.5 | 250.5 | 253.0 | 255.5 | 258.0 | 260.4 |
| 57.5° | 238.2 | 234.5 | 227.1 | 215.9 | 214.7 | 214.7 | 213.5 | 215.9 | 219.7 |
| 60° | 207.3 | 206.1 | 195.0 | 185.1 | 181.4 | 177.8 | 172.8 | 174.0 | 178.9 |
| 62.5° | 180.1 | 177.8 | 167.8 | 155.4 | 148.1 | 142.0 | 135.7 | 134.5 | 139.5 |
| 65° | 155.4 | 153.1 | 142.0 | 129.6 | 120.9 | 109.8 | 99.9 | 99.9 | 103.7 |
| 67.5° | 133.2 | 128.4 | 118.5 | 104.9 | 93.8 | 80.2 | 70.4 | 72.9 | 74.1 |
| 70° | 111.0 | 107.4 | 96.3 | 82.7 | 69.1 | 55.5 | 49.4 | 50.6 | 50.6 |
| 72.5° | 91.3 | 86.3 | 75.2 | 61.7 | 48.2 | 35.8 | 33.3 | 32.1 | 32.1 |
| 75° | 71.6 | 66.6 | 55.5 | 41.9 | 29.6 | 21.0 | 18.5 | 18.5 | 18.5 |
| 77.5° | 51.8 | 48.2 | 38.3 | 25.9 | 16.1 | 9.9 | 8.6 | 7.4 | 7.4 |
| 80° | 35.8 | 32.1 | 23.5 | 13.6 | 6.1 | 3.7 | 3.7 | 3.7 | 3.7 |
| 82.5° | 21.0 | 17.2 | 11.1 | 6.1 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 |
| 85° | 9.9 | 7.4 | 5.0 | 2.5 | 1.2 | 1.2 | 1.2 | 1.2 | 1.2 |
| 87.5° | 1.2 | 1.2 | 1.2 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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