

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: P593050

Luminaire Tested: **HCC6S07D010MB-HM60525950-61WWW**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P593050  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HCC6S07D010MB-HM60525950-61WWW  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT  
CYLINDER  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

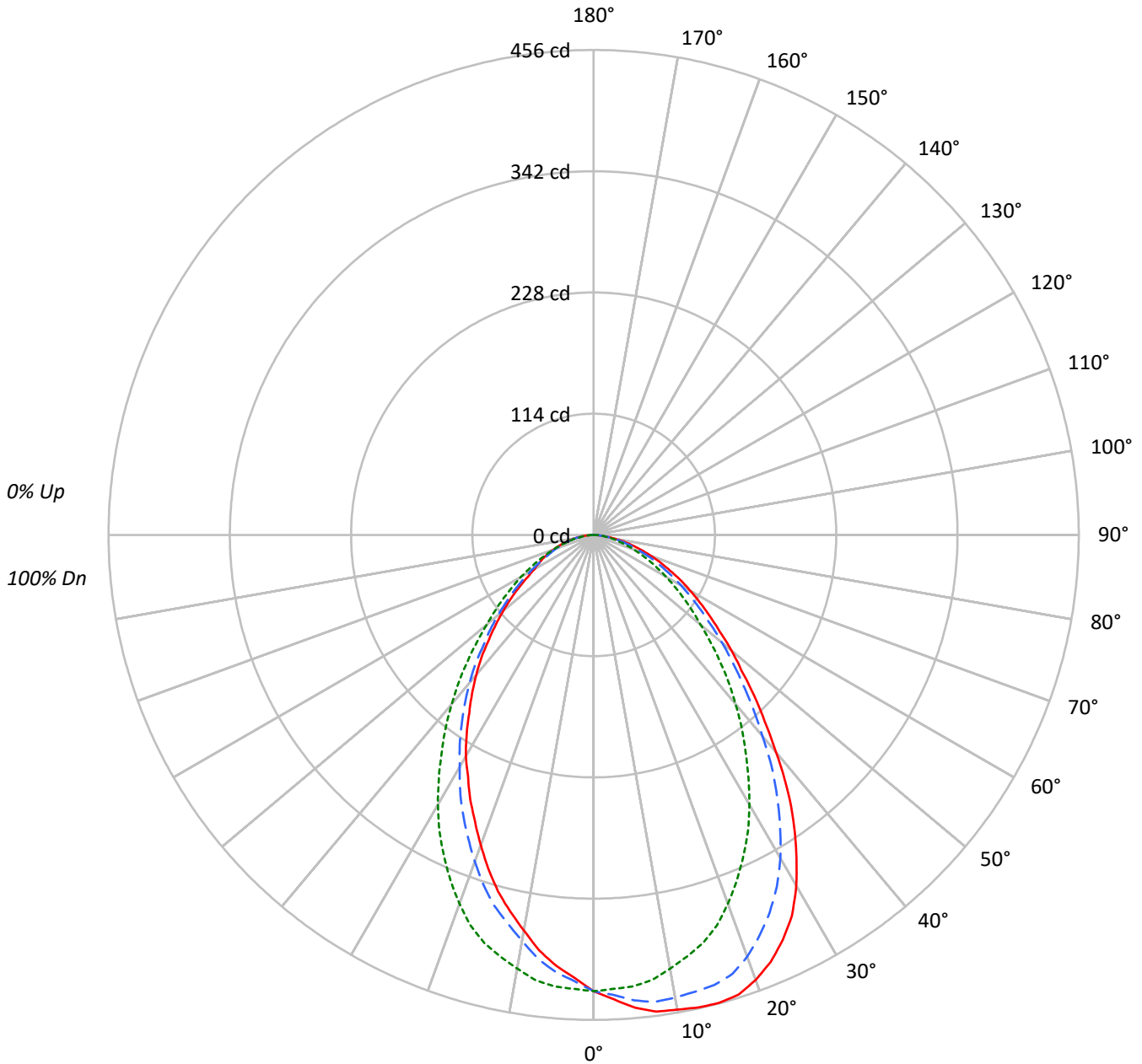
Lumens per Lamp: N/A  
Luminaire Lumens: 799.1 lumens  
Efficiency: N/A  
Efficacy: 99.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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 | 0  |  |  |  |  |   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |  |  |  |  |   |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    |    |  |  |  |  |   |
| 1   | 110 | 106 | 103 | 99  | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    |  |  |  |  |   |
| 2   | 102 | 95  | 89  | 84  | 99  | 93  | 88  | 83  | 90  | 85  | 81  | 86  | 83  | 79  | 83  | 80  | 78  | 76  |    |    |    |  |  |  |  |   |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 71  | 80  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |    |    |    |  |  |  |  |   |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    |  |  |  |  |   |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 64  | 59  | 54  | 63  | 58  | 53  | 51  |    |    |    |  |  |  |  |   |
| 6   | 75  | 63  | 55  | 49  | 73  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 57  | 52  | 48  | 46  |    |    |    |  |  |  |  |   |
| 7   | 70  | 58  | 50  | 44  | 69  | 57  | 50  | 44  | 56  | 49  | 44  | 54  | 48  | 44  | 53  | 48  | 43  | 42  |    |    |    |  |  |  |  |   |
| 8   | 66  | 53  | 46  | 40  | 64  | 53  | 45  | 40  | 51  | 45  | 40  | 50  | 44  | 40  | 49  | 44  | 39  | 38  |    |    |    |  |  |  |  |   |
| 9   | 62  | 49  | 42  | 37  | 60  | 49  | 42  | 37  | 48  | 41  | 36  | 47  | 41  | 36  | 46  | 40  | 36  | 34  |    |    |    |  |  |  |  |   |
| 10  | 58  | 46  | 39  | 34  | 57  | 45  | 38  | 34  | 44  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 32  |    |    |    |  |  |  |  |   |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 23518 | 23518 | 23518 |
| 5°  | 24560 | 23448 | 22370 |
| 10° | 25228 | 23046 | 21019 |
| 15° | 25857 | 22543 | 19694 |
| 20° | 25972 | 21521 | 18091 |
| 25° | 25423 | 20148 | 16592 |
| 30° | 24118 | 18534 | 15205 |
| 35° | 21904 | 16650 | 13639 |
| 40° | 19086 | 14828 | 12273 |
| 45° | 16513 | 12986 | 10784 |
| 50° | 14430 | 11181 | 9450  |
| 55° | 12750 | 9825  | 8114  |
| 60° | 11457 | 8607  | 7028  |
| 65° | 10261 | 7498  | 6823  |
| 70° | 9168  | 6395  | 6395  |
| 75° | 7943  | 5380  | 5994  |
| 80° | 6377  | 4546  | 5462  |
| 85° | 4340  | 3963  | 4717  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.3   | 5.0       |
| 10°-20°   | 112.1  | 14.0      |
| 20°-30°   | 156.2  | 19.5      |
| 30°-40°   | 160.9  | 20.1      |
| 40°-50°   | 133.4  | 16.7      |
| 50°-60°   | 95.9   | 12.0      |
| 60°-70°   | 61.0   | 7.6       |
| 70°-80°   | 31.3   | 3.9       |
| 80°-90°   | 8.0    | 1.0       |
| 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°    | 308.6  | 38.6      |
| 0°-40°    | 469.5  | 58.8      |
| 0°-60°    | 698.7  | 87.4      |
| 0°-90°    | 799.1  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 799.1  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 429 | 429 | 429 | 429  | 429  |      |
| 5°  | 446 | 439 | 426 | 412  | 406  | 43   |
| 15° | 456 | 438 | 397 | 361  | 347  | 128  |
| 25° | 420 | 392 | 333 | 290  | 274  | 193  |
| 35° | 327 | 301 | 249 | 216  | 204  | 203  |
| 45° | 213 | 198 | 168 | 146  | 139  | 165  |
| 55° | 133 | 122 | 103 | 91   | 85   | 120  |
| 65° | 79  | 70  | 58  | 50   | 53   | 79   |
| 75° | 38  | 32  | 25  | 26   | 28   | 40   |
| 85° | 7   | 6   | 6   | 7    | 8    | 9    |
| 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°    | 429.0 | 429.0 | 429.0 | 429.0 | 429.0 | 429.0  | 429.0 | 429.0  | 429.0 |
| 2.5°  | 437.1 | 435.3 | 433.0 | 430.8 | 427.3 | 423.2  | 419.8 | 418.6  | 416.8 |
| 5°    | 446.3 | 444.0 | 439.4 | 433.6 | 426.1 | 418.6  | 412.3 | 408.2  | 406.5 |
| 7.5°  | 452.1 | 449.2 | 442.9 | 433.0 | 422.0 | 411.1  | 401.9 | 396.1  | 393.8 |
| 10°   | 453.2 | 450.4 | 441.6 | 428.4 | 414.0 | 398.9  | 387.4 | 380.5  | 377.6 |
| 12.5° | 455.0 | 450.9 | 439.9 | 424.4 | 406.0 | 388.6  | 374.1 | 365.5  | 362.6 |
| 15°   | 455.6 | 450.9 | 438.2 | 419.2 | 397.2 | 376.5  | 360.9 | 350.4  | 347.0 |
| 17.5° | 453.2 | 448.1 | 433.0 | 409.9 | 385.1 | 363.1  | 344.7 | 333.8  | 329.1 |
| 20°   | 445.2 | 439.4 | 422.0 | 396.1 | 368.9 | 345.9  | 326.8 | 315.2  | 310.1 |
| 22.5° | 434.7 | 427.3 | 407.7 | 379.9 | 351.6 | 327.3  | 308.3 | 296.7  | 291.6 |
| 25°   | 420.3 | 413.4 | 391.5 | 362.0 | 333.1 | 307.7  | 290.4 | 278.3  | 274.3 |
| 27.5° | 403.6 | 395.5 | 373.0 | 343.5 | 314.1 | 288.7  | 271.9 | 260.9  | 255.8 |
| 30°   | 381.0 | 373.6 | 351.0 | 321.5 | 292.8 | 269.1  | 251.8 | 242.5  | 240.2 |
| 32.5° | 354.5 | 348.2 | 326.2 | 298.5 | 270.8 | 248.8  | 234.4 | 224.6  | 222.3 |
| 35°   | 327.3 | 319.8 | 300.8 | 274.9 | 248.8 | 229.2  | 215.9 | 207.2  | 203.8 |
| 37.5° | 298.0 | 291.0 | 274.9 | 251.8 | 228.6 | 210.2  | 198.6 | 191.1  | 187.6 |
| 40°   | 266.7 | 261.6 | 246.5 | 228.1 | 207.2 | 191.1  | 181.3 | 174.9  | 171.5 |
| 42.5° | 237.9 | 232.7 | 222.3 | 205.0 | 187.6 | 173.2  | 164.5 | 158.7  | 155.9 |
| 45°   | 213.0 | 208.5 | 198.0 | 183.0 | 167.5 | 155.3  | 146.0 | 142.1  | 139.1 |
| 47.5° | 188.2 | 185.9 | 176.6 | 162.8 | 148.4 | 138.0  | 131.7 | 127.0  | 124.7 |
| 50°   | 169.2 | 166.3 | 157.6 | 143.2 | 131.1 | 122.9  | 117.2 | 113.2  | 110.8 |
| 52.5° | 149.6 | 146.6 | 138.6 | 126.4 | 116.6 | 109.1  | 103.3 | 99.9   | 97.6  |
| 55°   | 133.4 | 131.1 | 122.4 | 111.5 | 102.8 | 96.4   | 91.2  | 87.2   | 84.9  |
| 57.5° | 118.4 | 116.0 | 108.0 | 97.6  | 90.1  | 84.3   | 79.6  | 76.3   | 73.3  |
| 60°   | 104.5 | 102.8 | 94.7  | 84.9  | 78.5  | 72.7   | 68.7  | 65.8   | 64.1  |
| 62.5° | 92.3  | 88.9  | 82.0  | 73.3  | 67.5  | 62.9   | 58.9  | 57.2   | 58.3  |
| 65°   | 79.1  | 77.4  | 70.5  | 62.9  | 57.8  | 53.1   | 50.2  | 51.4   | 52.6  |
| 67.5° | 68.1  | 65.8  | 60.0  | 53.1  | 48.5  | 45.0   | 43.3  | 45.7   | 46.2  |
| 70°   | 57.2  | 54.8  | 49.6  | 43.8  | 39.9  | 37.5   | 37.5  | 39.3   | 39.9  |
| 72.5° | 46.8  | 45.0  | 40.4  | 35.8  | 32.9  | 31.2   | 32.3  | 33.5   | 34.1  |
| 75°   | 37.5  | 35.8  | 32.3  | 28.3  | 25.4  | 25.4   | 26.5  | 27.8   | 28.3  |
| 77.5° | 28.9  | 27.8  | 24.2  | 21.4  | 20.2  | 20.2   | 21.4  | 22.0   | 22.5  |
| 80°   | 20.2  | 19.0  | 17.3  | 15.6  | 14.4  | 15.6   | 16.8  | 16.8   | 17.3  |
| 82.5° | 13.3  | 12.7  | 11.6  | 10.4  | 10.4  | 11.0   | 11.6  | 12.1   | 12.1  |
| 85°   | 6.9   | 6.9   | 6.3   | 5.8   | 6.3   | 6.9    | 6.9   | 7.5    | 7.5   |
| 87.5° | 2.3   | 2.3   | 2.3   | 2.3   | 2.8   | 2.8    | 2.8   | 2.8    | 2.8   |
| 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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