

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: P581565

Luminaire Tested: **HCC6S10D010MB-HM60525827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581565
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: HCC6S10D010MB-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

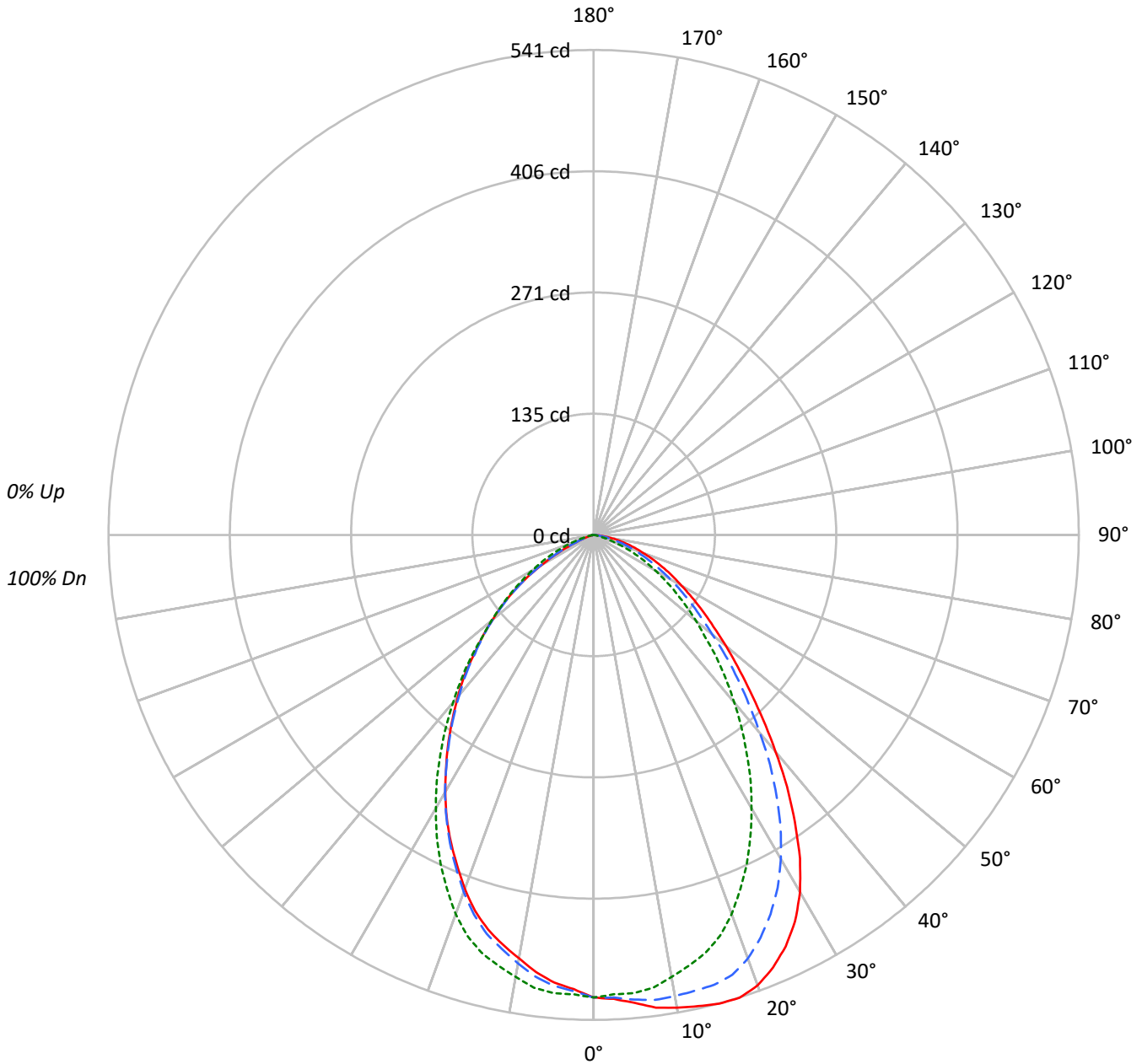
Lumens per Lamp: N/A
Luminaire Lumens: 919.4 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | | | | | | |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 28287 | 28287 | 28287 |
| 5° | 28830 | 28230 | 27592 |
| 10° | 29809 | 27872 | 26697 |
| 15° | 30721 | 27389 | 25863 |
| 20° | 31199 | 26246 | 24508 |
| 25° | 30637 | 24443 | 22822 |
| 30° | 29118 | 22276 | 20946 |
| 35° | 26174 | 19910 | 18892 |
| 40° | 22585 | 17447 | 16874 |
| 45° | 19126 | 15025 | 14629 |
| 50° | 16400 | 12682 | 12562 |
| 55° | 14212 | 10676 | 10265 |
| 60° | 12411 | 8673 | 7324 |
| 65° | 10922 | 6680 | 4047 |
| 70° | 9425 | 4424 | 1971 |
| 75° | 7985 | 2160 | 763 |
| 80° | 6188 | 916 | 474 |
| 85° | 3648 | 440 | 440 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 48.7 | 5.3 |
| 10°-20° | 137.7 | 15.0 |
| 20°-30° | 193.9 | 21.1 |
| 30°-40° | 198.1 | 21.5 |
| 40°-50° | 159.7 | 17.4 |
| 50°-60° | 107.1 | 11.7 |
| 60°-70° | 54.2 | 5.9 |
| 70°-80° | 17.3 | 1.9 |
| 80°-90° | 2.7 | 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° | 380.2 | 41.4 |
| 0°-40° | 578.3 | 62.9 |
| 0°-60° | 845.2 | 91.9 |
| 0°-90° | 919.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 919.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 516 | 516 | 516 | 516 | 516 | |
| 5° | 524 | 520 | 513 | 505 | 501 | 50 |
| 15° | 541 | 520 | 483 | 461 | 456 | 153 |
| 25° | 506 | 467 | 404 | 379 | 377 | 232 |
| 35° | 391 | 356 | 298 | 281 | 282 | 243 |
| 45° | 247 | 227 | 194 | 187 | 189 | 192 |
| 55° | 149 | 132 | 112 | 107 | 107 | 134 |
| 65° | 84 | 70 | 52 | 34 | 31 | 84 |
| 75° | 38 | 27 | 10 | 4 | 4 | 41 |
| 85° | 6 | 3 | 1 | 1 | 1 | 8 |
| 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° | 516.0 | 516.0 | 516.0 | 516.0 | 516.0 | 516.0 | 516.0 | 516.0 | 516.0 |
| 2.5° | 518.1 | 517.3 | 516.6 | 515.2 | 513.0 | 510.9 | 509.4 | 507.9 | 507.2 |
| 5° | 523.9 | 522.4 | 520.3 | 517.3 | 513.0 | 507.9 | 505.0 | 502.2 | 501.4 |
| 7.5° | 531.9 | 529.0 | 523.2 | 516.6 | 509.4 | 502.2 | 497.1 | 494.1 | 492.0 |
| 10° | 535.5 | 530.5 | 522.4 | 511.6 | 500.7 | 492.0 | 485.4 | 481.1 | 479.6 |
| 12.5° | 538.4 | 532.6 | 520.9 | 506.5 | 492.0 | 480.4 | 473.1 | 469.4 | 468.1 |
| 15° | 541.3 | 535.5 | 519.6 | 500.7 | 482.6 | 468.8 | 460.7 | 457.1 | 455.7 |
| 17.5° | 541.3 | 533.3 | 514.5 | 490.5 | 468.8 | 452.1 | 444.1 | 440.5 | 439.8 |
| 20° | 534.8 | 526.0 | 502.8 | 474.5 | 449.9 | 431.1 | 423.8 | 421.6 | 420.1 |
| 22.5° | 522.4 | 512.3 | 486.2 | 454.3 | 427.4 | 409.2 | 401.3 | 399.8 | 398.4 |
| 25° | 506.5 | 496.4 | 466.6 | 432.4 | 404.1 | 386.0 | 379.4 | 378.1 | 377.3 |
| 27.5° | 486.2 | 475.3 | 444.1 | 409.2 | 378.8 | 361.3 | 355.6 | 355.6 | 354.9 |
| 30° | 460.0 | 447.7 | 417.3 | 382.4 | 351.9 | 336.0 | 331.6 | 331.6 | 330.9 |
| 32.5° | 428.1 | 415.8 | 388.2 | 354.9 | 325.8 | 309.1 | 305.5 | 306.9 | 306.2 |
| 35° | 391.1 | 380.9 | 355.6 | 323.0 | 297.5 | 282.3 | 280.8 | 282.3 | 282.3 |
| 37.5° | 354.1 | 344.7 | 323.0 | 294.7 | 270.7 | 256.9 | 256.9 | 259.0 | 258.3 |
| 40° | 315.6 | 308.4 | 288.1 | 263.4 | 243.8 | 234.3 | 233.0 | 235.1 | 235.8 |
| 42.5° | 279.4 | 273.6 | 256.2 | 235.8 | 218.4 | 209.0 | 211.1 | 212.6 | 213.4 |
| 45° | 246.7 | 240.9 | 227.1 | 206.0 | 193.8 | 187.2 | 187.2 | 189.4 | 188.7 |
| 47.5° | 217.7 | 213.4 | 199.6 | 179.2 | 168.3 | 165.5 | 166.9 | 168.3 | 168.3 |
| 50° | 192.3 | 185.8 | 172.7 | 156.8 | 148.7 | 145.1 | 146.6 | 147.3 | 147.3 |
| 52.5° | 168.3 | 164.0 | 150.9 | 136.4 | 129.2 | 127.0 | 127.0 | 127.7 | 127.7 |
| 55° | 148.7 | 143.7 | 132.1 | 117.5 | 111.7 | 108.9 | 106.6 | 106.0 | 107.4 |
| 57.5° | 129.8 | 125.5 | 114.7 | 100.9 | 94.3 | 91.5 | 87.1 | 85.6 | 87.1 |
| 60° | 113.2 | 109.6 | 98.7 | 85.6 | 79.1 | 73.2 | 68.3 | 65.3 | 66.8 |
| 62.5° | 98.7 | 94.3 | 83.4 | 72.6 | 65.3 | 58.8 | 50.8 | 46.4 | 48.6 |
| 65° | 84.2 | 80.6 | 69.6 | 58.8 | 51.5 | 43.6 | 34.1 | 31.2 | 31.2 |
| 67.5° | 71.1 | 67.5 | 57.3 | 47.9 | 39.2 | 29.8 | 21.1 | 20.3 | 21.1 |
| 70° | 58.8 | 55.1 | 46.4 | 37.0 | 27.6 | 18.1 | 12.3 | 12.3 | 12.3 |
| 72.5° | 48.6 | 44.3 | 36.3 | 26.8 | 17.4 | 9.4 | 6.6 | 7.2 | 7.2 |
| 75° | 37.7 | 34.1 | 26.8 | 18.1 | 10.2 | 4.3 | 3.6 | 3.6 | 3.6 |
| 77.5° | 28.3 | 25.4 | 18.9 | 11.7 | 5.1 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80° | 19.6 | 16.6 | 12.3 | 7.2 | 2.9 | 1.5 | 1.5 | 1.5 | 1.5 |
| 82.5° | 11.7 | 10.2 | 7.2 | 3.6 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 5.8 | 5.1 | 2.9 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.7 | 0.7 | 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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