

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: P583347

Luminaire Tested: **HCC6W07D010SL-HM60525840-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583347
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: HCC6W07D010SL-HM60525840-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

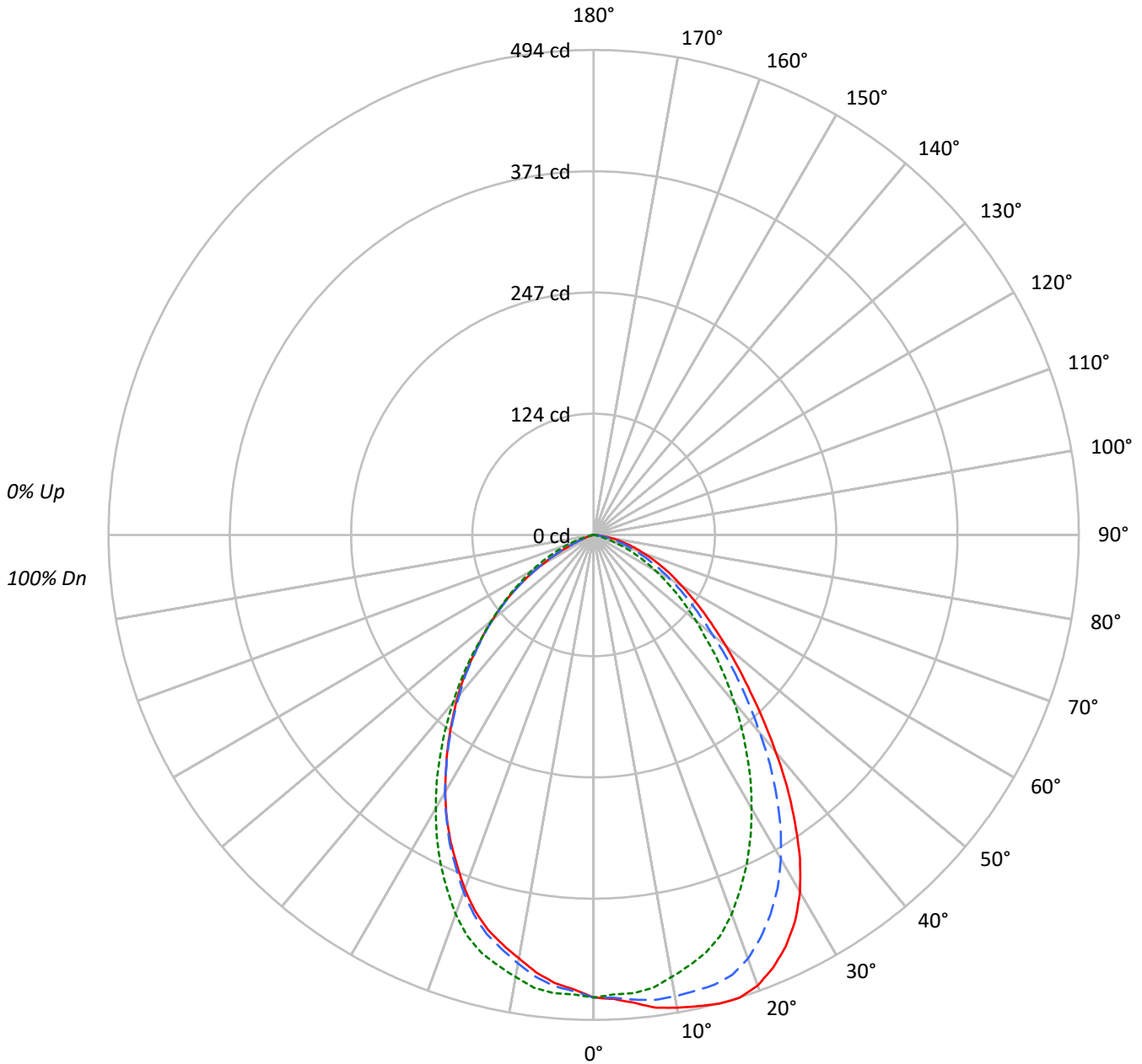
Lumens per Lamp: N/A
Luminaire Lumens: 839.7 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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° | 25831 | 25831 | 25831 |
| 5° | 26332 | 25781 | 25204 |
| 10° | 27226 | 25456 | 24382 |
| 15° | 28059 | 25011 | 23621 |
| 20° | 28492 | 23971 | 22384 |
| 25° | 27981 | 22326 | 20850 |
| 30° | 26593 | 20345 | 19130 |
| 35° | 23905 | 18183 | 17253 |
| 40° | 20624 | 15930 | 15415 |
| 45° | 17475 | 13722 | 13358 |
| 50° | 14976 | 11582 | 11471 |
| 55° | 12979 | 9758 | 9376 |
| 60° | 11326 | 7927 | 6688 |
| 65° | 9975 | 6097 | 3710 |
| 70° | 8607 | 4039 | 1795 |
| 75° | 7286 | 1970 | 699 |
| 80° | 5651 | 821 | 442 |
| 85° | 3334 | 440 | 440 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 44.5 | 5.3 |
| 10°-20° | 125.7 | 15.0 |
| 20°-30° | 177.1 | 21.1 |
| 30°-40° | 180.9 | 21.5 |
| 40°-50° | 145.9 | 17.4 |
| 50°-60° | 97.8 | 11.7 |
| 60°-70° | 49.5 | 5.9 |
| 70°-80° | 15.8 | 1.9 |
| 80°-90° | 2.5 | 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° | 347.3 | 41.4 |
| 0°-40° | 528.2 | 62.9 |
| 0°-60° | 771.9 | 91.9 |
| 0°-90° | 839.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 839.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 471 | 471 | 471 | 471 | 471 | |
| 5° | 478 | 475 | 468 | 461 | 458 | 46 |
| 15° | 494 | 474 | 441 | 421 | 416 | 140 |
| 25° | 463 | 426 | 369 | 347 | 345 | 212 |
| 35° | 357 | 325 | 272 | 256 | 258 | 222 |
| 45° | 225 | 208 | 177 | 171 | 172 | 175 |
| 55° | 136 | 121 | 102 | 97 | 98 | 122 |
| 65° | 77 | 64 | 47 | 31 | 29 | 77 |
| 75° | 34 | 24 | 9 | 3 | 3 | 37 |
| 85° | 5 | 3 | 1 | 1 | 1 | 7 |
| 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° | 471.2 | 471.2 | 471.2 | 471.2 | 471.2 | 471.2 | 471.2 | 471.2 | 471.2 |
| 2.5° | 473.1 | 472.6 | 471.9 | 470.5 | 468.5 | 466.6 | 465.2 | 463.9 | 463.3 |
| 5° | 478.5 | 477.1 | 475.2 | 472.6 | 468.5 | 463.9 | 461.2 | 458.6 | 458.0 |
| 7.5° | 485.7 | 483.1 | 477.8 | 471.9 | 465.2 | 458.6 | 454.0 | 451.3 | 449.3 |
| 10° | 489.1 | 484.5 | 477.1 | 467.2 | 457.3 | 449.3 | 443.3 | 439.4 | 438.0 |
| 12.5° | 491.7 | 486.4 | 475.9 | 462.6 | 449.3 | 438.7 | 432.1 | 428.7 | 427.5 |
| 15° | 494.4 | 489.1 | 474.5 | 457.3 | 440.7 | 428.2 | 420.8 | 417.5 | 416.2 |
| 17.5° | 494.4 | 487.1 | 469.9 | 448.0 | 428.2 | 412.9 | 405.6 | 402.2 | 401.6 |
| 20° | 488.4 | 480.5 | 459.3 | 433.4 | 410.9 | 393.6 | 387.0 | 385.0 | 383.7 |
| 22.5° | 477.1 | 467.9 | 444.0 | 414.9 | 390.3 | 373.8 | 366.5 | 365.2 | 363.8 |
| 25° | 462.6 | 453.3 | 426.1 | 395.0 | 369.1 | 352.6 | 346.6 | 345.2 | 344.7 |
| 27.5° | 444.0 | 434.1 | 405.6 | 373.8 | 345.9 | 330.0 | 324.7 | 324.7 | 324.0 |
| 30° | 420.1 | 408.9 | 381.0 | 349.3 | 321.4 | 306.8 | 302.9 | 302.9 | 302.2 |
| 32.5° | 391.0 | 379.8 | 354.5 | 324.0 | 297.5 | 282.3 | 279.1 | 280.3 | 279.6 |
| 35° | 357.2 | 347.9 | 324.7 | 294.9 | 271.7 | 257.8 | 256.5 | 257.8 | 257.8 |
| 37.5° | 323.4 | 314.7 | 294.9 | 269.1 | 247.2 | 234.6 | 234.6 | 236.6 | 235.9 |
| 40° | 288.2 | 281.7 | 263.1 | 240.5 | 222.6 | 214.0 | 212.8 | 214.7 | 215.4 |
| 42.5° | 255.2 | 249.8 | 234.0 | 215.4 | 199.5 | 190.9 | 192.8 | 194.2 | 194.9 |
| 45° | 225.4 | 220.0 | 207.5 | 188.2 | 177.0 | 171.0 | 171.0 | 173.0 | 172.3 |
| 47.5° | 198.8 | 194.9 | 182.3 | 163.7 | 153.7 | 151.1 | 152.4 | 153.7 | 153.7 |
| 50° | 175.6 | 169.6 | 157.7 | 143.1 | 135.8 | 132.6 | 133.9 | 134.5 | 134.5 |
| 52.5° | 153.7 | 149.8 | 137.9 | 124.6 | 117.9 | 116.0 | 116.0 | 116.6 | 116.6 |
| 55° | 135.8 | 131.2 | 120.7 | 107.4 | 102.1 | 99.4 | 97.4 | 96.8 | 98.1 |
| 57.5° | 118.6 | 114.7 | 104.7 | 92.1 | 86.1 | 83.5 | 79.5 | 78.2 | 79.5 |
| 60° | 103.3 | 100.0 | 90.1 | 78.2 | 72.3 | 67.0 | 62.3 | 59.6 | 61.0 |
| 62.5° | 90.1 | 86.1 | 76.3 | 66.3 | 59.6 | 53.7 | 46.3 | 42.4 | 44.4 |
| 65° | 76.9 | 73.5 | 63.7 | 53.7 | 47.0 | 39.8 | 31.2 | 28.6 | 28.6 |
| 67.5° | 64.9 | 61.6 | 52.3 | 43.7 | 35.8 | 27.2 | 19.3 | 18.6 | 19.3 |
| 70° | 53.7 | 50.4 | 42.4 | 33.8 | 25.2 | 16.5 | 11.2 | 11.2 | 11.2 |
| 72.5° | 44.4 | 40.4 | 33.1 | 24.5 | 15.9 | 8.6 | 6.0 | 6.6 | 6.6 |
| 75° | 34.4 | 31.2 | 24.5 | 16.5 | 9.3 | 4.0 | 3.3 | 3.3 | 3.3 |
| 77.5° | 25.8 | 23.2 | 17.2 | 10.7 | 4.6 | 1.4 | 1.4 | 1.4 | 1.4 |
| 80° | 17.9 | 15.3 | 11.2 | 6.6 | 2.6 | 1.4 | 1.4 | 1.4 | 1.4 |
| 82.5° | 10.7 | 9.3 | 6.6 | 3.3 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 5.3 | 4.6 | 2.6 | 1.4 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 1.4 | 1.4 | 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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