

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: P583403

Luminaire Tested: **HCC6W07D010SL-HM60525935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583403
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W07D010SL-HM60525935-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

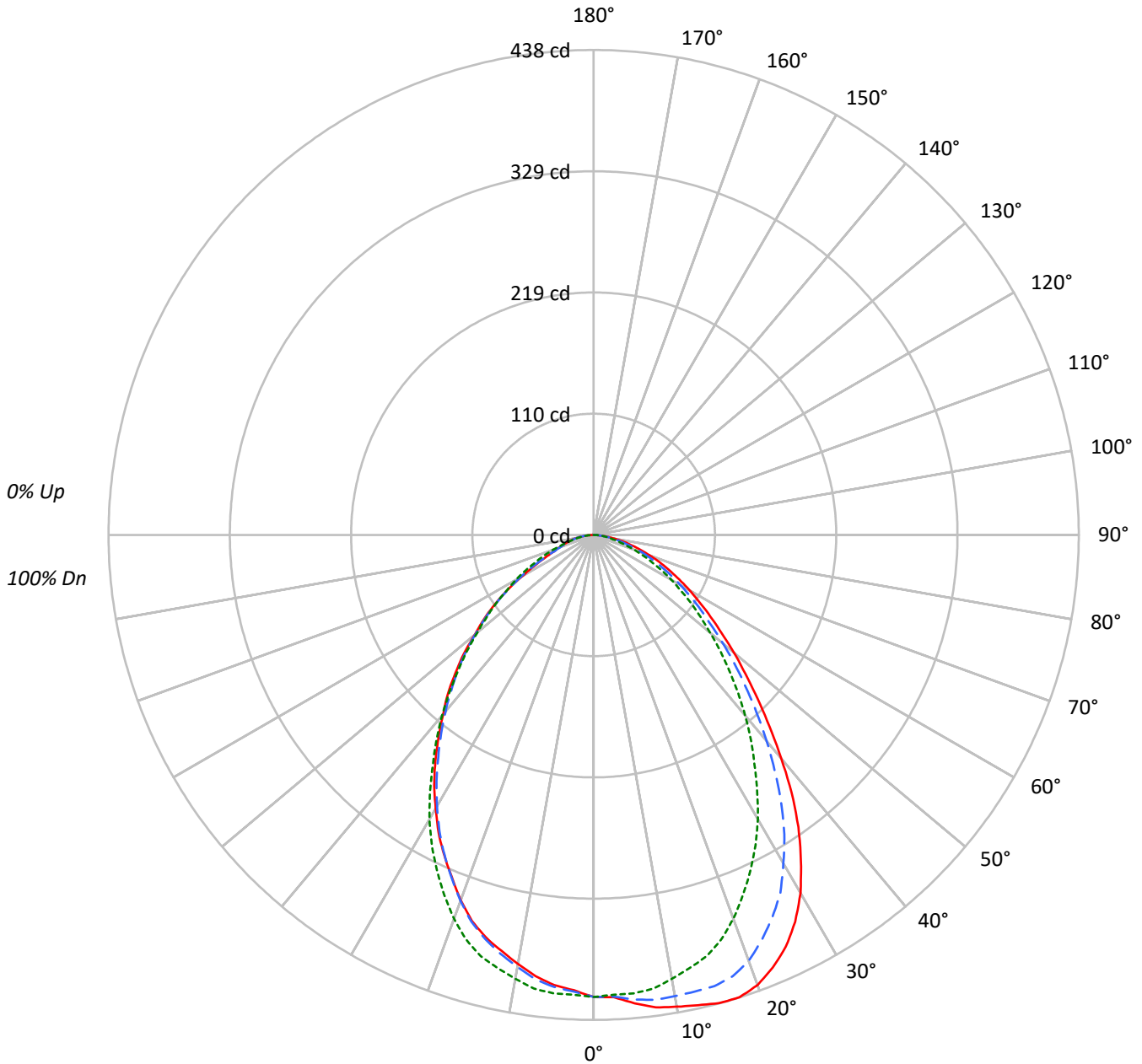
Lumens per Lamp: N/A
Luminaire Lumens: 817.2 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | | | | | | |
| 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 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 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 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 22876 | 22876 | 22876 |
| 5° | 23366 | 22870 | 22458 |
| 10° | 24087 | 22656 | 21899 |
| 15° | 24847 | 22355 | 21357 |
| 20° | 25243 | 21515 | 20483 |
| 25° | 24830 | 20239 | 19314 |
| 30° | 23637 | 18762 | 18047 |
| 35° | 21556 | 16938 | 16671 |
| 40° | 18842 | 15221 | 15136 |
| 45° | 16226 | 13389 | 13699 |
| 50° | 14098 | 11676 | 11914 |
| 55° | 12310 | 10246 | 10351 |
| 60° | 10931 | 8870 | 8124 |
| 65° | 9755 | 7472 | 6213 |
| 70° | 8591 | 6123 | 5209 |
| 75° | 7371 | 4829 | 4935 |
| 80° | 5935 | 4136 | 4862 |
| 85° | 3900 | 3585 | 4277 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.5 | 4.8 |
| 10°-20° | 112.5 | 13.8 |
| 20°-30° | 160.6 | 19.6 |
| 30°-40° | 168.2 | 20.6 |
| 40°-50° | 141.6 | 17.3 |
| 50°-60° | 100.8 | 12.3 |
| 60°-70° | 59.0 | 7.2 |
| 70°-80° | 27.9 | 3.4 |
| 80°-90° | 7.2 | 0.9 |
| 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° | 312.5 | 38.2 |
| 0°-40° | 480.7 | 58.8 |
| 0°-60° | 723.1 | 88.5 |
| 0°-90° | 817.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 817.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 417 | 417 | 417 | 417 | 417 | |
| 5° | 425 | 421 | 416 | 410 | 408 | 41 |
| 15° | 438 | 422 | 394 | 378 | 376 | 124 |
| 25° | 410 | 381 | 335 | 319 | 319 | 188 |
| 35° | 322 | 295 | 253 | 244 | 249 | 200 |
| 45° | 209 | 194 | 173 | 173 | 177 | 162 |
| 55° | 129 | 118 | 107 | 107 | 108 | 116 |
| 65° | 75 | 67 | 58 | 48 | 48 | 75 |
| 75° | 35 | 29 | 23 | 22 | 23 | 37 |
| 85° | 6 | 5 | 6 | 7 | 7 | 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° | 417.3 | 417.3 | 417.3 | 417.3 | 417.3 | 417.3 | 417.3 | 417.3 | 417.3 |
| 2.5° | 417.9 | 417.9 | 417.3 | 416.7 | 415.6 | 413.9 | 412.8 | 411.6 | 411.6 |
| 5° | 424.6 | 423.5 | 421.2 | 418.4 | 415.6 | 412.2 | 409.9 | 408.1 | 408.1 |
| 7.5° | 430.4 | 428.2 | 423.5 | 418.4 | 413.3 | 408.7 | 404.7 | 402.4 | 401.9 |
| 10° | 432.7 | 429.9 | 422.9 | 415.0 | 407.0 | 400.7 | 396.2 | 393.4 | 393.4 |
| 12.5° | 435.0 | 431.6 | 422.4 | 411.1 | 400.7 | 392.2 | 387.6 | 385.3 | 384.8 |
| 15° | 437.8 | 433.3 | 421.8 | 407.5 | 393.9 | 384.2 | 378.0 | 376.3 | 376.3 |
| 17.5° | 437.8 | 432.1 | 417.9 | 400.2 | 383.1 | 372.2 | 366.5 | 364.8 | 365.4 |
| 20° | 432.7 | 426.3 | 409.4 | 387.6 | 368.8 | 357.5 | 351.7 | 350.6 | 351.1 |
| 22.5° | 422.9 | 415.6 | 396.2 | 372.8 | 352.2 | 340.4 | 335.1 | 335.1 | 334.6 |
| 25° | 410.5 | 402.4 | 381.4 | 356.9 | 334.6 | 322.7 | 318.7 | 319.3 | 319.3 |
| 27.5° | 393.9 | 385.9 | 364.8 | 338.7 | 316.3 | 304.4 | 301.6 | 302.7 | 303.3 |
| 30° | 373.4 | 364.8 | 342.6 | 316.9 | 296.4 | 284.5 | 282.8 | 284.5 | 285.1 |
| 32.5° | 348.3 | 342.1 | 320.4 | 294.1 | 274.8 | 264.6 | 264.0 | 265.7 | 268.0 |
| 35° | 322.1 | 315.2 | 295.3 | 271.4 | 253.1 | 244.5 | 244.5 | 247.4 | 249.1 |
| 37.5° | 293.6 | 286.8 | 268.5 | 248.6 | 233.2 | 225.1 | 226.3 | 229.2 | 229.8 |
| 40° | 263.3 | 258.2 | 242.8 | 225.7 | 212.7 | 206.3 | 208.0 | 211.0 | 211.5 |
| 42.5° | 234.9 | 230.3 | 217.8 | 202.4 | 192.7 | 188.1 | 190.3 | 193.9 | 195.0 |
| 45° | 209.3 | 204.1 | 193.9 | 180.7 | 172.7 | 170.4 | 173.3 | 175.6 | 176.7 |
| 47.5° | 185.8 | 181.3 | 172.7 | 160.8 | 155.1 | 153.9 | 156.8 | 157.9 | 159.1 |
| 50° | 165.3 | 160.8 | 152.2 | 141.4 | 136.9 | 136.9 | 139.1 | 140.3 | 139.7 |
| 52.5° | 145.4 | 141.4 | 133.4 | 124.3 | 121.5 | 121.5 | 123.2 | 123.7 | 124.9 |
| 55° | 128.8 | 124.9 | 117.9 | 109.4 | 107.2 | 106.0 | 107.2 | 107.2 | 108.3 |
| 57.5° | 113.4 | 110.0 | 103.8 | 95.7 | 92.9 | 91.8 | 91.2 | 90.6 | 91.8 |
| 60° | 99.7 | 96.9 | 90.1 | 83.3 | 80.9 | 78.1 | 75.8 | 73.5 | 74.1 |
| 62.5° | 87.2 | 84.4 | 78.1 | 71.3 | 69.0 | 65.0 | 62.1 | 59.3 | 60.4 |
| 65° | 75.2 | 72.4 | 66.7 | 61.0 | 57.6 | 53.0 | 48.5 | 46.8 | 47.9 |
| 67.5° | 64.5 | 62.1 | 56.4 | 50.8 | 47.9 | 42.7 | 38.2 | 38.2 | 38.7 |
| 70° | 53.6 | 51.3 | 46.8 | 41.6 | 38.2 | 33.7 | 32.0 | 32.5 | 32.5 |
| 72.5° | 43.8 | 42.1 | 37.6 | 33.1 | 29.7 | 26.7 | 26.7 | 27.4 | 28.0 |
| 75° | 34.8 | 33.7 | 29.1 | 25.0 | 22.8 | 21.1 | 22.2 | 22.8 | 23.3 |
| 77.5° | 26.7 | 25.0 | 21.6 | 18.8 | 17.1 | 17.7 | 18.8 | 19.4 | 19.9 |
| 80° | 18.8 | 18.2 | 15.4 | 13.7 | 13.1 | 13.7 | 14.8 | 15.4 | 15.4 |
| 82.5° | 12.0 | 11.4 | 9.7 | 9.2 | 9.2 | 9.7 | 10.9 | 10.9 | 10.9 |
| 85° | 6.2 | 5.7 | 5.1 | 5.1 | 5.7 | 6.2 | 6.8 | 6.8 | 6.8 |
| 87.5° | 2.3 | 1.7 | 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



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— 0°-180° - - 45°-225° - - - - 90°-270°

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