

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: P593032

Luminaire Tested: **HCC6S07D010BZ-HM60525850-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593032
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: HCC6S07D010BZ-HM60525850-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

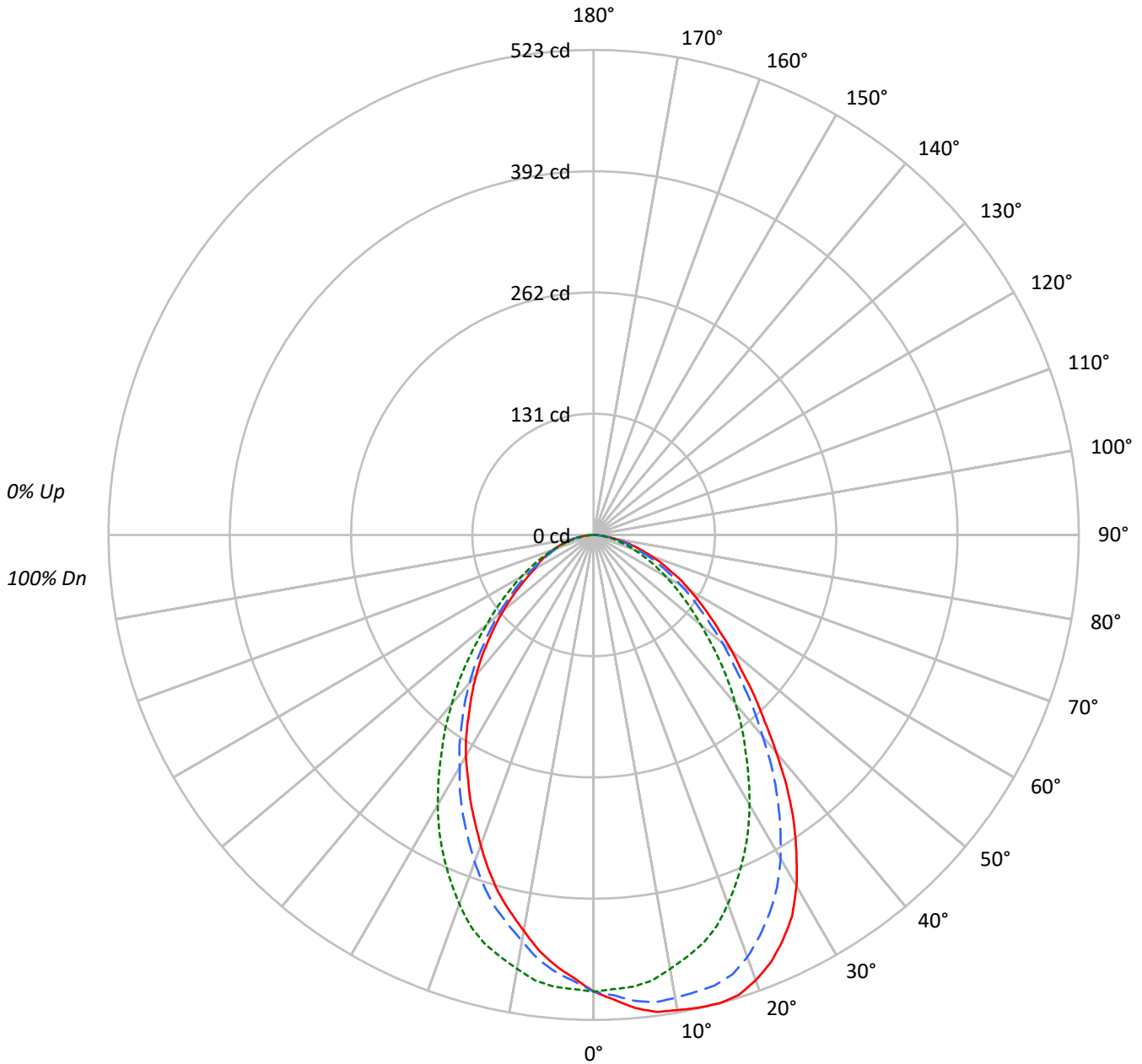
Lumens per Lamp: N/A
Luminaire Lumens: 917.2 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 26993 | 26993 | 26993 |
| 5° | 28186 | 26915 | 25677 |
| 10° | 28963 | 26452 | 24126 |
| 15° | 29677 | 25874 | 22599 |
| 20° | 29811 | 24706 | 20763 |
| 25° | 29179 | 23130 | 19035 |
| 30° | 27681 | 21269 | 17452 |
| 35° | 25143 | 19113 | 15660 |
| 40° | 21905 | 17025 | 14084 |
| 45° | 18955 | 14901 | 12389 |
| 50° | 16562 | 12835 | 10848 |
| 55° | 14633 | 11268 | 9309 |
| 60° | 13157 | 9879 | 8059 |
| 65° | 11778 | 8600 | 7822 |
| 70° | 10515 | 7341 | 7341 |
| 75° | 9129 | 6164 | 6884 |
| 80° | 7324 | 5209 | 6251 |
| 85° | 4969 | 4592 | 5409 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.3 | 5.0 |
| 10°-20° | 128.6 | 14.0 |
| 20°-30° | 179.3 | 19.5 |
| 30°-40° | 184.7 | 20.1 |
| 40°-50° | 153.1 | 16.7 |
| 50°-60° | 110.0 | 12.0 |
| 60°-70° | 70.1 | 7.6 |
| 70°-80° | 36.0 | 3.9 |
| 80°-90° | 9.1 | 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° | 354.2 | 38.6 |
| 0°-40° | 538.9 | 58.8 |
| 0°-60° | 802.0 | 87.4 |
| 0°-90° | 917.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 917.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 492 | 492 | 492 | 492 | 492 | |
| 5° | 512 | 504 | 489 | 473 | 467 | 49 |
| 15° | 523 | 503 | 456 | 414 | 398 | 147 |
| 25° | 482 | 449 | 382 | 333 | 315 | 221 |
| 35° | 376 | 345 | 286 | 248 | 234 | 233 |
| 45° | 244 | 227 | 192 | 168 | 160 | 189 |
| 55° | 153 | 140 | 118 | 105 | 97 | 138 |
| 65° | 91 | 81 | 66 | 58 | 60 | 91 |
| 75° | 43 | 37 | 29 | 30 | 32 | 46 |
| 85° | 8 | 7 | 7 | 8 | 9 | 10 |
| 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° | 492.4 | 492.4 | 492.4 | 492.4 | 492.4 | 492.4 | 492.4 | 492.4 | 492.4 |
| 2.5° | 501.7 | 499.7 | 497.0 | 494.3 | 490.4 | 485.7 | 481.8 | 480.5 | 478.5 |
| 5° | 512.2 | 509.6 | 504.3 | 497.7 | 489.1 | 480.5 | 473.1 | 468.5 | 466.6 |
| 7.5° | 518.9 | 515.6 | 508.3 | 497.0 | 484.5 | 471.9 | 461.2 | 454.7 | 452.0 |
| 10° | 520.3 | 516.9 | 507.0 | 491.7 | 475.2 | 458.0 | 444.7 | 436.8 | 433.4 |
| 12.5° | 522.2 | 517.6 | 505.0 | 487.1 | 465.9 | 445.9 | 429.4 | 419.5 | 416.2 |
| 15° | 522.9 | 517.6 | 503.1 | 481.2 | 455.9 | 432.1 | 414.2 | 402.2 | 398.2 |
| 17.5° | 520.3 | 514.3 | 497.0 | 470.5 | 442.0 | 416.8 | 395.6 | 383.1 | 377.7 |
| 20° | 511.0 | 504.3 | 484.5 | 454.7 | 423.5 | 397.0 | 375.1 | 361.9 | 355.9 |
| 22.5° | 499.0 | 490.4 | 467.9 | 436.1 | 403.6 | 375.7 | 353.8 | 340.6 | 334.7 |
| 25° | 482.4 | 474.5 | 449.3 | 415.5 | 382.4 | 353.3 | 333.3 | 319.4 | 314.7 |
| 27.5° | 463.3 | 454.0 | 428.2 | 394.3 | 360.5 | 331.4 | 312.1 | 299.6 | 293.6 |
| 30° | 437.3 | 428.7 | 402.9 | 369.1 | 336.0 | 308.9 | 288.9 | 278.4 | 275.7 |
| 32.5° | 406.9 | 399.6 | 374.5 | 342.6 | 310.8 | 285.6 | 269.1 | 257.8 | 255.2 |
| 35° | 375.7 | 367.1 | 345.2 | 315.4 | 285.6 | 263.1 | 247.9 | 237.9 | 234.0 |
| 37.5° | 341.9 | 334.0 | 315.4 | 288.9 | 262.4 | 241.2 | 228.0 | 219.3 | 215.4 |
| 40° | 306.1 | 300.2 | 283.0 | 261.7 | 237.9 | 219.3 | 208.1 | 200.8 | 196.8 |
| 42.5° | 273.1 | 267.0 | 255.2 | 235.2 | 215.4 | 198.8 | 188.9 | 182.3 | 178.9 |
| 45° | 244.5 | 239.3 | 227.3 | 210.1 | 192.2 | 178.2 | 167.7 | 163.0 | 159.8 |
| 47.5° | 216.1 | 213.3 | 202.8 | 186.8 | 170.3 | 158.4 | 151.1 | 145.8 | 143.1 |
| 50° | 194.2 | 190.9 | 180.9 | 164.4 | 150.5 | 141.2 | 134.5 | 129.8 | 127.2 |
| 52.5° | 171.6 | 168.4 | 159.1 | 145.1 | 133.9 | 125.2 | 118.6 | 114.7 | 112.1 |
| 55° | 153.1 | 150.5 | 140.5 | 127.9 | 117.9 | 110.7 | 104.7 | 100.0 | 97.4 |
| 57.5° | 135.8 | 133.2 | 124.0 | 112.1 | 103.3 | 96.8 | 91.4 | 87.5 | 84.2 |
| 60° | 120.0 | 117.9 | 108.7 | 97.4 | 90.1 | 83.5 | 78.9 | 75.6 | 73.5 |
| 62.5° | 106.0 | 102.1 | 94.2 | 84.2 | 77.5 | 72.3 | 67.6 | 65.6 | 67.0 |
| 65° | 90.8 | 88.8 | 80.9 | 72.3 | 66.3 | 61.0 | 57.7 | 59.0 | 60.3 |
| 67.5° | 78.2 | 75.6 | 68.9 | 61.0 | 55.6 | 51.7 | 49.7 | 52.3 | 53.0 |
| 70° | 65.6 | 63.0 | 57.0 | 50.4 | 45.8 | 43.1 | 43.1 | 45.1 | 45.8 |
| 72.5° | 53.7 | 51.7 | 46.3 | 41.1 | 37.7 | 35.8 | 37.2 | 38.4 | 39.1 |
| 75° | 43.1 | 41.1 | 37.2 | 32.5 | 29.1 | 29.1 | 30.5 | 31.8 | 32.5 |
| 77.5° | 33.1 | 31.8 | 27.9 | 24.5 | 23.2 | 23.2 | 24.5 | 25.2 | 25.8 |
| 80° | 23.2 | 21.9 | 19.8 | 17.9 | 16.5 | 17.9 | 19.3 | 19.3 | 19.8 |
| 82.5° | 15.3 | 14.6 | 13.3 | 11.9 | 11.9 | 12.6 | 13.3 | 13.9 | 13.9 |
| 85° | 7.9 | 7.9 | 7.3 | 6.6 | 7.3 | 7.9 | 7.9 | 8.6 | 8.6 |
| 87.5° | 2.6 | 2.6 | 2.6 | 2.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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