

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: P583419

Luminaire Tested: **HCC6W07D010BZ-HM60525940-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583419
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: HCC6W07D010BZ-HM60525940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

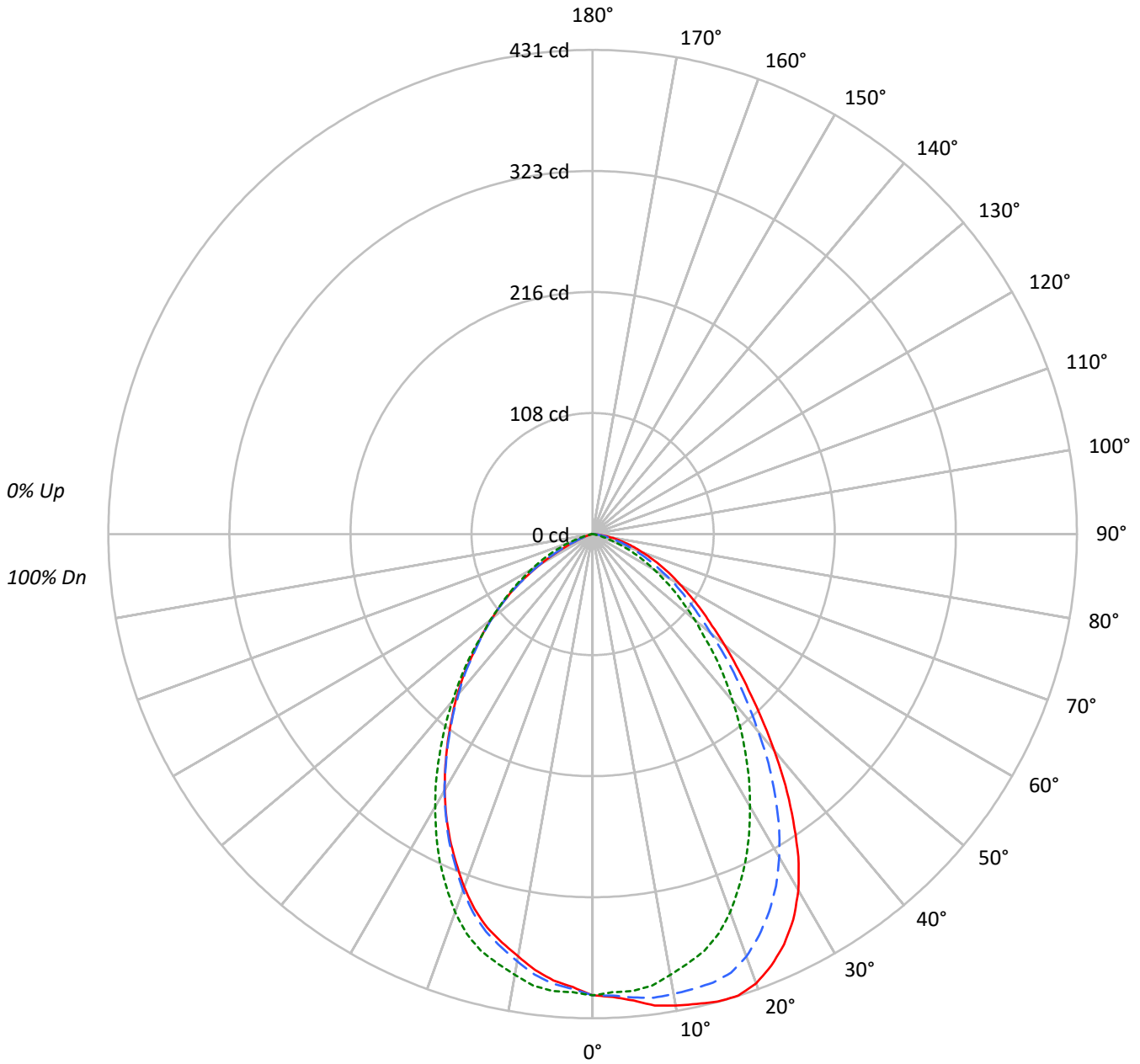
Lumens per Lamp: N/A
Luminaire Lumens: 731.6 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 22504 | 22504 | 22504 |
| 5° | 22936 | 22463 | 21951 |
| 10° | 23719 | 22177 | 21248 |
| 15° | 24450 | 21794 | 20579 |
| 20° | 24829 | 20885 | 19503 |
| 25° | 24376 | 19459 | 18158 |
| 30° | 23174 | 17731 | 16667 |
| 35° | 20826 | 15841 | 15031 |
| 40° | 17977 | 13883 | 13425 |
| 45° | 15219 | 11955 | 11637 |
| 50° | 13049 | 10098 | 10004 |
| 55° | 11316 | 8497 | 8162 |
| 60° | 9879 | 6896 | 5822 |
| 65° | 8691 | 5318 | 3217 |
| 70° | 7501 | 3526 | 1587 |
| 75° | 6354 | 1694 | 593 |
| 80° | 4925 | 726 | 347 |
| 85° | 2893 | 377 | 377 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.7 | 5.3 |
| 10°-20° | 109.6 | 15.0 |
| 20°-30° | 154.3 | 21.1 |
| 30°-40° | 157.6 | 21.5 |
| 40°-50° | 127.1 | 17.4 |
| 50°-60° | 85.2 | 11.7 |
| 60°-70° | 43.1 | 5.9 |
| 70°-80° | 13.8 | 1.9 |
| 80°-90° | 2.1 | 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° | 302.6 | 41.4 |
| 0°-40° | 460.2 | 62.9 |
| 0°-60° | 672.5 | 91.9 |
| 0°-90° | 731.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 731.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 410 | 410 | 410 | 410 | 410 | |
| 5° | 417 | 414 | 408 | 402 | 399 | 40 |
| 15° | 431 | 413 | 384 | 367 | 363 | 122 |
| 25° | 403 | 371 | 322 | 302 | 300 | 185 |
| 35° | 311 | 283 | 237 | 223 | 225 | 194 |
| 45° | 196 | 181 | 154 | 149 | 150 | 153 |
| 55° | 118 | 105 | 89 | 85 | 85 | 106 |
| 65° | 67 | 55 | 41 | 27 | 25 | 67 |
| 75° | 30 | 21 | 8 | 3 | 3 | 32 |
| 85° | 5 | 2 | 1 | 1 | 1 | 6 |
| 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° | 410.5 | 410.5 | 410.5 | 410.5 | 410.5 | 410.5 | 410.5 | 410.5 | 410.5 |
| 2.5° | 412.3 | 411.7 | 411.1 | 409.9 | 408.2 | 406.5 | 405.3 | 404.1 | 403.6 |
| 5° | 416.8 | 415.7 | 414.0 | 411.7 | 408.2 | 404.1 | 401.9 | 399.6 | 398.9 |
| 7.5° | 423.2 | 420.9 | 416.3 | 411.1 | 405.3 | 399.6 | 395.5 | 393.2 | 391.5 |
| 10° | 426.1 | 422.0 | 415.7 | 407.1 | 398.4 | 391.5 | 386.2 | 382.8 | 381.7 |
| 12.5° | 428.4 | 423.9 | 414.6 | 403.0 | 391.5 | 382.3 | 376.5 | 373.6 | 372.4 |
| 15° | 430.8 | 426.1 | 413.4 | 398.4 | 384.0 | 373.0 | 366.6 | 363.8 | 362.6 |
| 17.5° | 430.8 | 424.4 | 409.4 | 390.3 | 373.0 | 359.7 | 353.4 | 350.4 | 349.9 |
| 20° | 425.6 | 418.6 | 400.2 | 377.6 | 358.0 | 343.0 | 337.2 | 335.5 | 334.3 |
| 22.5° | 415.7 | 407.7 | 386.8 | 361.4 | 340.1 | 325.6 | 319.3 | 318.1 | 317.0 |
| 25° | 403.0 | 395.0 | 371.3 | 344.1 | 321.7 | 307.2 | 301.9 | 300.8 | 300.2 |
| 27.5° | 386.8 | 378.2 | 353.4 | 325.6 | 301.4 | 287.6 | 282.9 | 282.9 | 282.3 |
| 30° | 366.1 | 356.2 | 332.0 | 304.3 | 280.1 | 267.3 | 263.9 | 263.9 | 263.3 |
| 32.5° | 340.7 | 330.8 | 308.9 | 282.3 | 259.2 | 246.0 | 243.0 | 244.3 | 243.7 |
| 35° | 311.2 | 303.1 | 282.9 | 257.0 | 236.7 | 224.6 | 223.4 | 224.6 | 224.6 |
| 37.5° | 281.8 | 274.3 | 257.0 | 234.4 | 215.4 | 204.4 | 204.4 | 206.1 | 205.5 |
| 40° | 251.2 | 245.4 | 229.2 | 209.6 | 194.0 | 186.5 | 185.4 | 187.1 | 187.6 |
| 42.5° | 222.3 | 217.6 | 203.8 | 187.6 | 173.8 | 166.3 | 168.0 | 169.2 | 169.7 |
| 45° | 196.3 | 191.7 | 180.7 | 163.9 | 154.2 | 149.0 | 149.0 | 150.7 | 150.1 |
| 47.5° | 173.2 | 169.7 | 158.7 | 142.6 | 133.9 | 131.7 | 132.8 | 133.9 | 133.9 |
| 50° | 153.0 | 147.9 | 137.4 | 124.7 | 118.4 | 115.5 | 116.6 | 117.3 | 117.3 |
| 52.5° | 133.9 | 130.5 | 120.1 | 108.5 | 102.8 | 101.1 | 101.1 | 101.6 | 101.6 |
| 55° | 118.4 | 114.3 | 105.0 | 93.6 | 88.9 | 86.6 | 84.9 | 84.3 | 85.4 |
| 57.5° | 103.3 | 99.9 | 91.2 | 80.2 | 75.0 | 72.7 | 69.3 | 68.1 | 69.3 |
| 60° | 90.1 | 87.2 | 78.5 | 68.1 | 62.9 | 58.3 | 54.3 | 52.0 | 53.1 |
| 62.5° | 78.5 | 75.0 | 66.4 | 57.8 | 52.0 | 46.8 | 40.4 | 36.9 | 38.6 |
| 65° | 67.0 | 64.1 | 55.4 | 46.8 | 41.0 | 34.7 | 27.2 | 24.8 | 24.8 |
| 67.5° | 56.5 | 53.7 | 45.7 | 38.1 | 31.2 | 23.7 | 16.8 | 16.2 | 16.8 |
| 70° | 46.8 | 43.8 | 36.9 | 29.5 | 22.0 | 14.4 | 9.9 | 9.9 | 9.9 |
| 72.5° | 38.6 | 35.2 | 28.9 | 21.4 | 13.8 | 7.5 | 5.2 | 5.8 | 5.8 |
| 75° | 30.0 | 27.2 | 21.4 | 14.4 | 8.0 | 3.5 | 2.8 | 2.8 | 2.8 |
| 77.5° | 22.5 | 20.2 | 15.0 | 9.3 | 4.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 80° | 15.6 | 13.3 | 9.9 | 5.8 | 2.3 | 1.1 | 1.1 | 1.1 | 1.1 |
| 82.5° | 9.3 | 8.0 | 5.8 | 2.8 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 |
| 85° | 4.6 | 4.1 | 2.3 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 1.1 | 1.1 | 0.6 | 0.6 | 0.0 | 0.6 | 0.6 | 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



Report Generated By 670245859 / DESKTOP-T8S5UU9

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

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