

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: P582989

Luminaire Tested: **HCC6W05D010BZ-HM60525940-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582989
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: HCC6W05D010BZ-HM60525940-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

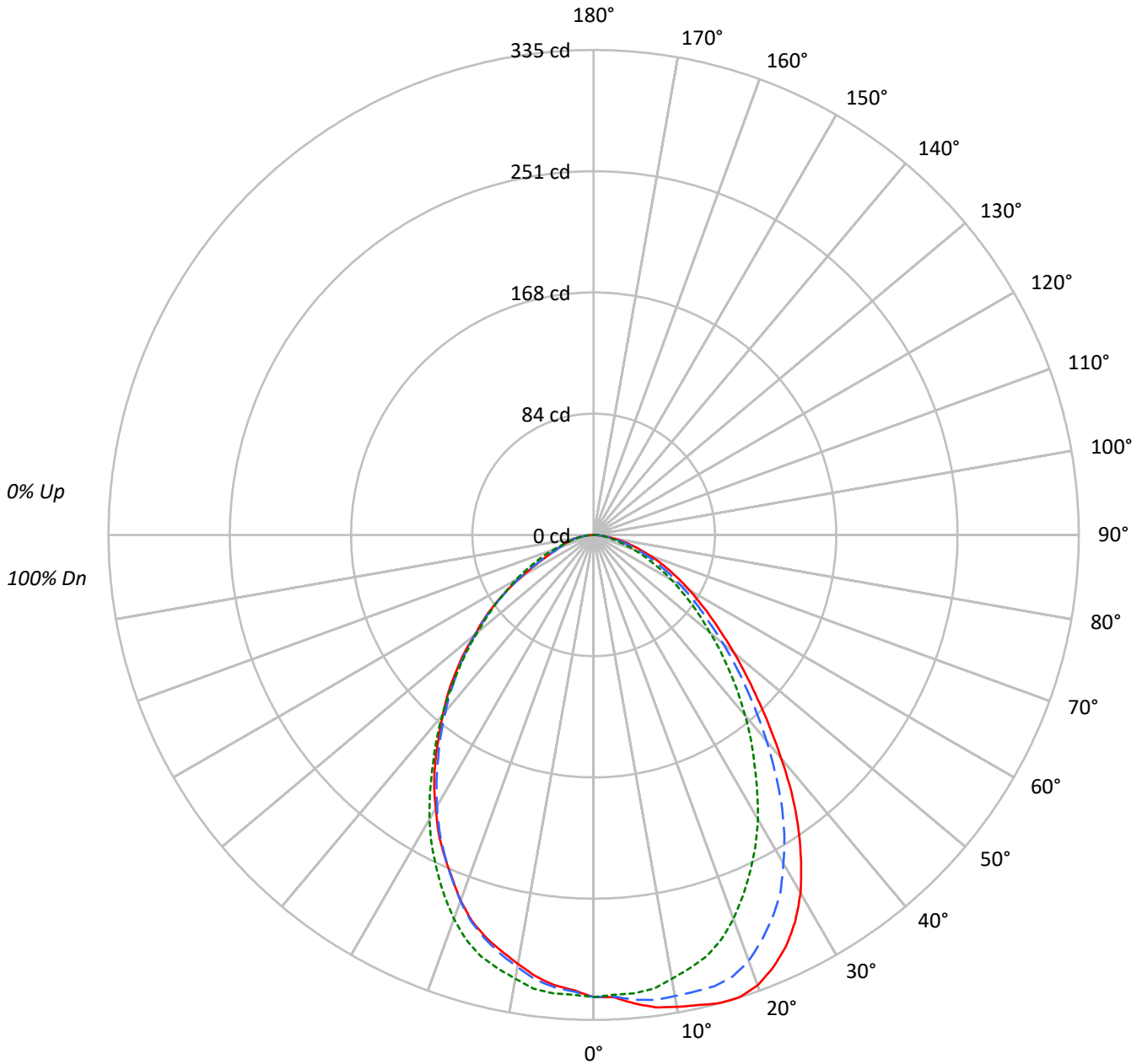
Lumens per Lamp: N/A
Luminaire Lumens: 625.1 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): 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 | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | | | 76 | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 84 | 77 | 72 | 81 | 75 | 71 | 78 | 73 | 69 | 76 | 72 | 68 | 66 | | | | | 66 | | | |
| 4 | 87 | 77 | 69 | 63 | 85 | 75 | 68 | 63 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 5 | 81 | 70 | 61 | 56 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 52 | | | | | 52 | | | |
| 6 | 75 | 63 | 55 | 49 | 74 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 58 | 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 | 38 | 34 | 57 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | 31 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 17499 | 17499 | 17499 |
| 5° | 17879 | 17494 | 17180 |
| 10° | 18425 | 17329 | 16750 |
| 15° | 19007 | 17100 | 16334 |
| 20° | 19310 | 16463 | 15670 |
| 25° | 18987 | 15479 | 14771 |
| 30° | 18085 | 14357 | 13800 |
| 35° | 16483 | 12956 | 12749 |
| 40° | 14420 | 11636 | 11579 |
| 45° | 12404 | 10241 | 10474 |
| 50° | 10780 | 8921 | 9108 |
| 55° | 9414 | 7828 | 7914 |
| 60° | 8366 | 6787 | 6217 |
| 65° | 7459 | 5720 | 4748 |
| 70° | 6572 | 4696 | 3991 |
| 75° | 5634 | 3685 | 3791 |
| 80° | 4546 | 3189 | 3725 |
| 85° | 2956 | 2768 | 3271 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 30.2 | 4.8 |
| 10°-20° | 86.0 | 13.8 |
| 20°-30° | 122.8 | 19.6 |
| 30°-40° | 128.6 | 20.6 |
| 40°-50° | 108.3 | 17.3 |
| 50°-60° | 77.1 | 12.3 |
| 60°-70° | 45.1 | 7.2 |
| 70°-80° | 21.4 | 3.4 |
| 80°-90° | 5.5 | 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° | 239.1 | 38.2 |
| 0°-40° | 367.7 | 58.8 |
| 0°-60° | 553.1 | 88.5 |
| 0°-90° | 625.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 625.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 319 | 319 | 319 | 319 | 319 | |
| 5° | 325 | 322 | 318 | 314 | 312 | 31 |
| 15° | 335 | 323 | 301 | 289 | 288 | 95 |
| 25° | 314 | 292 | 256 | 244 | 244 | 144 |
| 35° | 246 | 226 | 194 | 187 | 190 | 153 |
| 45° | 160 | 148 | 132 | 132 | 135 | 124 |
| 55° | 98 | 90 | 82 | 82 | 83 | 89 |
| 65° | 58 | 51 | 44 | 37 | 37 | 57 |
| 75° | 27 | 22 | 17 | 17 | 18 | 29 |
| 85° | 5 | 4 | 4 | 5 | 5 | 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° | 319.2 | 319.2 | 319.2 | 319.2 | 319.2 | 319.2 | 319.2 | 319.2 | 319.2 |
| 2.5° | 319.7 | 319.7 | 319.2 | 318.8 | 317.9 | 316.6 | 315.7 | 314.8 | 314.8 |
| 5° | 324.9 | 324.0 | 322.3 | 320.0 | 317.9 | 315.3 | 313.6 | 312.2 | 312.2 |
| 7.5° | 329.2 | 327.5 | 324.0 | 320.0 | 316.2 | 312.7 | 309.6 | 307.8 | 307.5 |
| 10° | 331.0 | 328.8 | 323.5 | 317.4 | 311.3 | 306.6 | 303.1 | 300.9 | 300.9 |
| 12.5° | 332.7 | 330.1 | 323.1 | 314.4 | 306.6 | 300.0 | 296.5 | 294.8 | 294.4 |
| 15° | 334.9 | 331.4 | 322.7 | 311.8 | 301.3 | 293.9 | 289.1 | 287.8 | 287.8 |
| 17.5° | 334.9 | 330.5 | 319.7 | 306.1 | 293.0 | 284.8 | 280.4 | 279.1 | 279.6 |
| 20° | 331.0 | 326.1 | 313.1 | 296.5 | 282.2 | 273.5 | 269.1 | 268.1 | 268.6 |
| 22.5° | 323.5 | 317.9 | 303.1 | 285.2 | 269.5 | 260.4 | 256.4 | 256.4 | 255.9 |
| 25° | 313.9 | 307.8 | 291.8 | 273.0 | 255.9 | 246.8 | 243.7 | 244.2 | 244.2 |
| 27.5° | 301.3 | 295.2 | 279.1 | 259.0 | 242.0 | 232.9 | 230.6 | 231.5 | 232.0 |
| 30° | 285.7 | 279.1 | 262.0 | 242.5 | 226.8 | 217.6 | 216.3 | 217.6 | 218.0 |
| 32.5° | 266.5 | 261.6 | 245.1 | 225.0 | 210.2 | 202.4 | 201.9 | 203.2 | 205.0 |
| 35° | 246.3 | 241.1 | 225.9 | 207.6 | 193.6 | 187.0 | 187.0 | 189.3 | 190.5 |
| 37.5° | 224.5 | 219.3 | 205.4 | 190.1 | 178.3 | 172.2 | 173.1 | 175.3 | 175.7 |
| 40° | 201.5 | 197.5 | 185.8 | 172.7 | 162.6 | 157.9 | 159.1 | 161.4 | 161.8 |
| 42.5° | 179.7 | 176.2 | 166.6 | 154.8 | 147.4 | 143.8 | 145.7 | 148.3 | 149.2 |
| 45° | 160.0 | 156.1 | 148.3 | 138.2 | 132.1 | 130.4 | 132.5 | 134.4 | 135.1 |
| 47.5° | 142.2 | 138.7 | 132.1 | 122.9 | 118.6 | 117.7 | 119.9 | 120.8 | 121.7 |
| 50° | 126.4 | 122.9 | 116.4 | 108.1 | 104.6 | 104.6 | 106.4 | 107.2 | 106.8 |
| 52.5° | 111.2 | 108.1 | 102.0 | 95.0 | 92.9 | 92.9 | 94.2 | 94.6 | 95.5 |
| 55° | 98.5 | 95.5 | 90.3 | 83.7 | 81.9 | 81.1 | 81.9 | 81.9 | 82.8 |
| 57.5° | 86.8 | 84.2 | 79.3 | 73.2 | 71.1 | 70.2 | 69.7 | 69.4 | 70.2 |
| 60° | 76.3 | 74.1 | 68.9 | 63.6 | 61.9 | 59.8 | 58.0 | 56.3 | 56.7 |
| 62.5° | 66.7 | 64.5 | 59.8 | 54.5 | 52.8 | 49.7 | 47.6 | 45.3 | 46.2 |
| 65° | 57.5 | 55.4 | 51.0 | 46.7 | 44.1 | 40.6 | 37.1 | 35.7 | 36.6 |
| 67.5° | 49.3 | 47.6 | 43.2 | 38.8 | 36.6 | 32.7 | 29.3 | 29.3 | 29.6 |
| 70° | 41.0 | 39.2 | 35.7 | 31.9 | 29.3 | 25.8 | 24.4 | 24.9 | 24.9 |
| 72.5° | 33.6 | 32.3 | 28.8 | 25.3 | 22.7 | 20.5 | 20.5 | 20.9 | 21.4 |
| 75° | 26.6 | 25.8 | 22.3 | 19.2 | 17.4 | 16.2 | 17.0 | 17.4 | 17.9 |
| 77.5° | 20.5 | 19.2 | 16.6 | 14.4 | 13.1 | 13.6 | 14.4 | 14.8 | 15.3 |
| 80° | 14.4 | 13.9 | 11.8 | 10.5 | 10.1 | 10.5 | 11.3 | 11.8 | 11.8 |
| 82.5° | 9.2 | 8.7 | 7.5 | 7.0 | 7.0 | 7.5 | 8.2 | 8.2 | 8.2 |
| 85° | 4.7 | 4.4 | 4.0 | 4.0 | 4.4 | 4.7 | 5.2 | 5.2 | 5.2 |
| 87.5° | 1.7 | 1.4 | 1.7 | 1.7 | 2.1 | 2.1 | 2.1 | 2.1 | 2.1 |
| 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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