

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: P582971

Luminaire Tested: **HCC6S05D010BZ-HM60525935-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582971
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: HCC6S05D010BZ-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

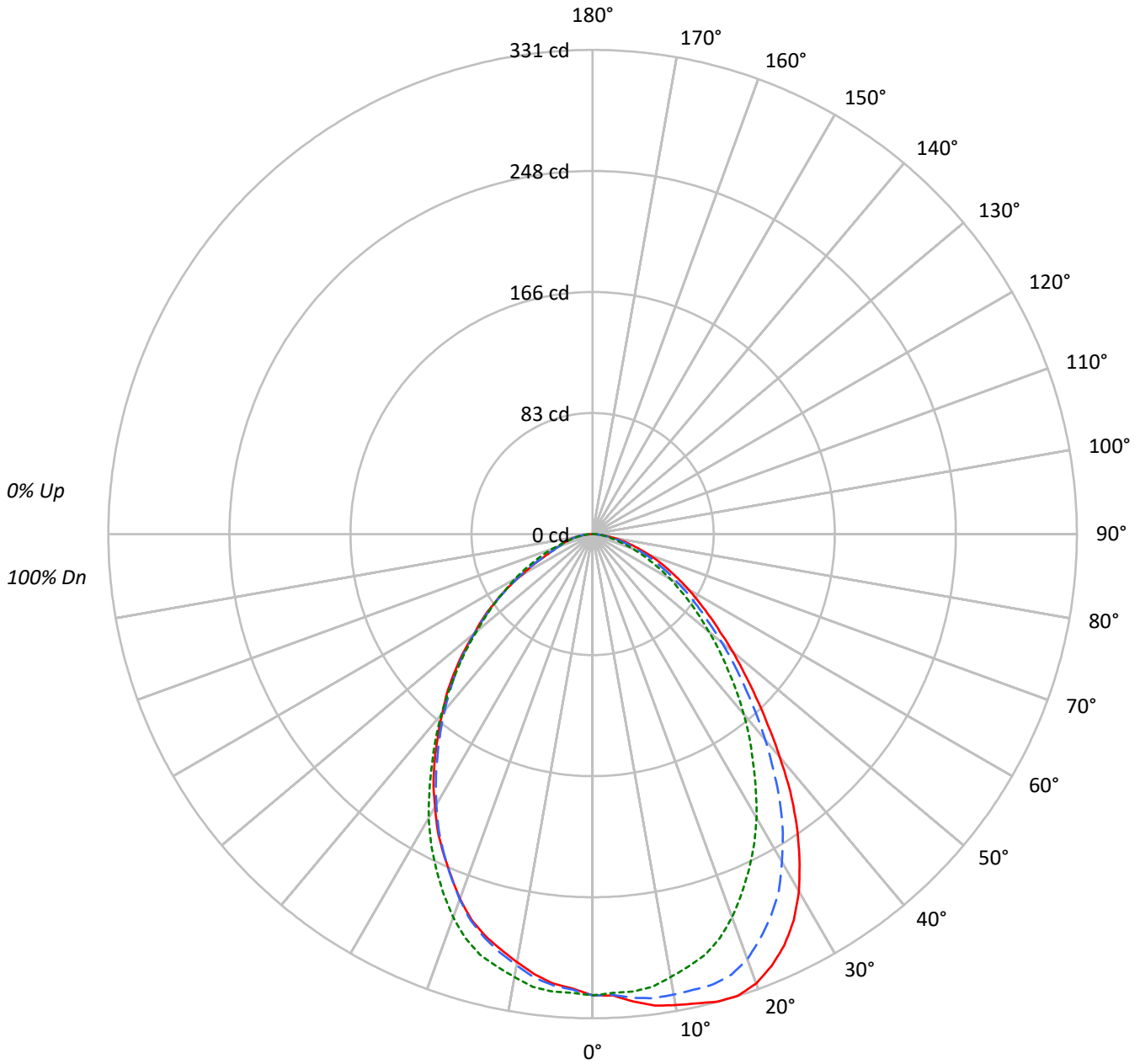
Lumens per Lamp: N/A
Luminaire Lumens: 617.3 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (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 | 98 | 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 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 43 | 37 | 33 | 31 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 17285 | 17285 | 17285 |
| 5° | 17653 | 17274 | 16971 |
| 10° | 18197 | 17117 | 16544 |
| 15° | 18774 | 16890 | 16129 |
| 20° | 19071 | 16259 | 15477 |
| 25° | 18757 | 15291 | 14584 |
| 30° | 17851 | 14179 | 13635 |
| 35° | 16282 | 12796 | 12588 |
| 40° | 14241 | 11500 | 11436 |
| 45° | 12257 | 10117 | 10350 |
| 50° | 10652 | 8818 | 8998 |
| 55° | 9300 | 7732 | 7818 |
| 60° | 8267 | 6699 | 6129 |
| 65° | 7368 | 5643 | 4696 |
| 70° | 6491 | 4616 | 3927 |
| 75° | 5549 | 3643 | 3728 |
| 80° | 4483 | 3125 | 3662 |
| 85° | 2956 | 2705 | 3271 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.8 | 4.8 |
| 10°-20° | 85.0 | 13.8 |
| 20°-30° | 121.3 | 19.6 |
| 30°-40° | 127.1 | 20.6 |
| 40°-50° | 107.0 | 17.3 |
| 50°-60° | 76.1 | 12.3 |
| 60°-70° | 44.5 | 7.2 |
| 70°-80° | 21.1 | 3.4 |
| 80°-90° | 5.4 | 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° | 236.1 | 38.2 |
| 0°-40° | 363.2 | 58.8 |
| 0°-60° | 546.3 | 88.5 |
| 0°-90° | 617.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 617.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 315 | 315 | 315 | 315 | 315 | |
| 5° | 321 | 318 | 314 | 310 | 308 | 31 |
| 15° | 331 | 319 | 298 | 286 | 284 | 93 |
| 25° | 310 | 288 | 253 | 241 | 241 | 142 |
| 35° | 243 | 223 | 191 | 185 | 188 | 151 |
| 45° | 158 | 146 | 130 | 131 | 134 | 123 |
| 55° | 97 | 89 | 81 | 81 | 82 | 88 |
| 65° | 57 | 50 | 44 | 37 | 36 | 57 |
| 75° | 26 | 22 | 17 | 17 | 18 | 28 |
| 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° | 315.3 | 315.3 | 315.3 | 315.3 | 315.3 | 315.3 | 315.3 | 315.3 | 315.3 |
| 2.5° | 315.7 | 315.7 | 315.3 | 314.8 | 313.9 | 312.7 | 311.8 | 311.0 | 311.0 |
| 5° | 320.8 | 320.0 | 318.2 | 316.1 | 313.9 | 311.3 | 309.6 | 308.4 | 308.4 |
| 7.5° | 325.1 | 323.4 | 320.0 | 316.1 | 312.2 | 308.8 | 305.8 | 304.1 | 303.6 |
| 10° | 326.9 | 324.8 | 319.6 | 313.6 | 307.5 | 302.7 | 299.3 | 297.2 | 297.2 |
| 12.5° | 328.6 | 326.0 | 319.1 | 310.5 | 302.7 | 296.3 | 292.9 | 291.1 | 290.7 |
| 15° | 330.8 | 327.2 | 318.7 | 307.9 | 297.6 | 290.3 | 285.6 | 284.2 | 284.2 |
| 17.5° | 330.8 | 326.5 | 315.7 | 302.3 | 289.4 | 281.3 | 277.0 | 275.6 | 276.1 |
| 20° | 326.9 | 322.2 | 309.2 | 292.9 | 278.7 | 270.1 | 265.7 | 264.9 | 265.3 |
| 22.5° | 319.6 | 313.9 | 299.3 | 281.6 | 266.1 | 257.1 | 253.2 | 253.2 | 252.8 |
| 25° | 310.1 | 304.1 | 288.2 | 269.6 | 252.8 | 243.7 | 240.7 | 241.1 | 241.1 |
| 27.5° | 297.6 | 291.5 | 275.6 | 255.8 | 239.0 | 230.0 | 227.8 | 228.7 | 229.2 |
| 30° | 282.0 | 275.6 | 258.8 | 239.4 | 224.0 | 214.9 | 213.6 | 214.9 | 215.4 |
| 32.5° | 263.2 | 258.4 | 242.0 | 222.3 | 207.6 | 199.8 | 199.4 | 200.7 | 202.4 |
| 35° | 243.3 | 238.2 | 223.1 | 205.0 | 191.2 | 184.8 | 184.8 | 186.9 | 188.1 |
| 37.5° | 221.8 | 216.6 | 202.8 | 187.8 | 176.2 | 170.1 | 171.0 | 173.1 | 173.6 |
| 40° | 199.0 | 195.0 | 183.5 | 170.5 | 160.7 | 155.9 | 157.2 | 159.3 | 159.8 |
| 42.5° | 177.4 | 174.0 | 164.5 | 152.9 | 145.5 | 142.2 | 143.8 | 146.4 | 147.2 |
| 45° | 158.1 | 154.1 | 146.4 | 136.5 | 130.5 | 128.8 | 131.0 | 132.7 | 133.5 |
| 47.5° | 140.3 | 137.0 | 130.5 | 121.5 | 117.2 | 116.3 | 118.4 | 119.3 | 120.1 |
| 50° | 124.9 | 121.5 | 115.0 | 106.8 | 103.4 | 103.4 | 105.1 | 106.0 | 105.5 |
| 52.5° | 109.8 | 106.8 | 100.8 | 93.9 | 91.8 | 91.8 | 93.0 | 93.5 | 94.4 |
| 55° | 97.3 | 94.4 | 89.2 | 82.7 | 80.9 | 80.1 | 80.9 | 80.9 | 81.8 |
| 57.5° | 85.7 | 83.2 | 78.4 | 72.3 | 70.2 | 69.4 | 68.9 | 68.5 | 69.4 |
| 60° | 75.4 | 73.2 | 68.0 | 62.8 | 61.1 | 59.0 | 57.3 | 55.6 | 55.9 |
| 62.5° | 65.9 | 63.7 | 59.0 | 53.8 | 52.1 | 49.0 | 46.9 | 44.7 | 45.7 |
| 65° | 56.8 | 54.7 | 50.4 | 46.1 | 43.5 | 40.0 | 36.6 | 35.4 | 36.2 |
| 67.5° | 48.7 | 46.9 | 42.6 | 38.3 | 36.2 | 32.3 | 28.8 | 28.8 | 29.3 |
| 70° | 40.5 | 38.8 | 35.4 | 31.4 | 28.8 | 25.4 | 24.1 | 24.5 | 24.5 |
| 72.5° | 33.1 | 31.9 | 28.5 | 25.0 | 22.4 | 20.2 | 20.2 | 20.7 | 21.1 |
| 75° | 26.2 | 25.4 | 21.9 | 19.0 | 17.2 | 15.9 | 16.8 | 17.2 | 17.6 |
| 77.5° | 20.2 | 19.0 | 16.4 | 14.2 | 12.9 | 13.3 | 14.2 | 14.7 | 15.0 |
| 80° | 14.2 | 13.8 | 11.6 | 10.3 | 9.9 | 10.3 | 11.2 | 11.6 | 11.6 |
| 82.5° | 9.0 | 8.6 | 7.3 | 6.9 | 6.9 | 7.3 | 8.1 | 8.1 | 8.1 |
| 85° | 4.7 | 4.3 | 3.8 | 3.8 | 4.3 | 4.7 | 5.2 | 5.2 | 5.2 |
| 87.5° | 1.7 | 1.2 | 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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