

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: P592995

Luminaire Tested: **HCC6S05D010BZ-HM60525850-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P592995
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: HCC6S05D010BZ-HM60525850-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

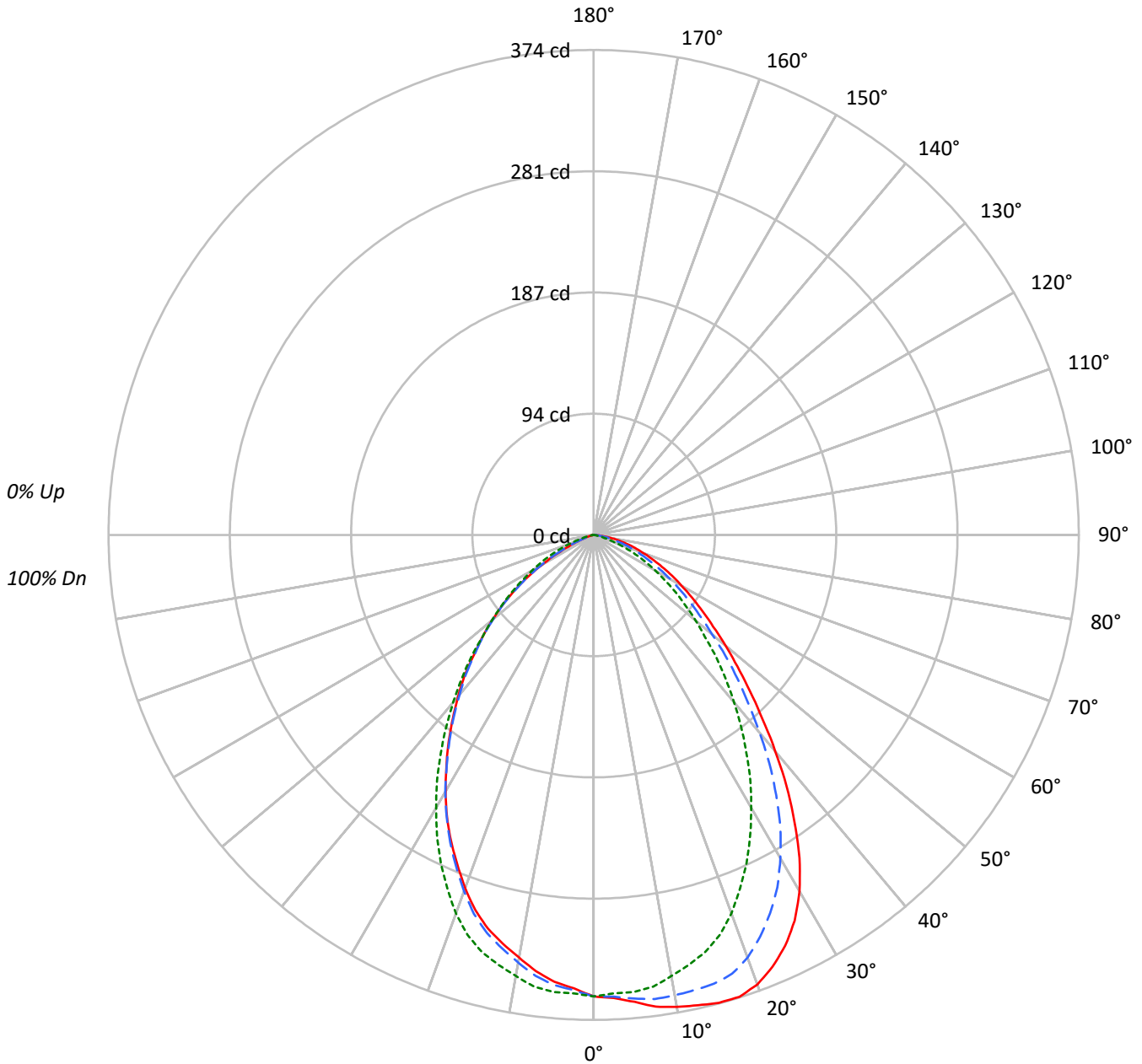
Lumens per Lamp: N/A
Luminaire Lumens: 634.4 lumens
Efficiency: N/A
Efficacy: 105.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | 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 | | | 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° | 19510 | 19510 | 19510 |
| 5° | 19893 | 19475 | 19040 |
| 10° | 20569 | 19227 | 18425 |
| 15° | 21198 | 18893 | 17843 |
| 20° | 21521 | 18108 | 16906 |
| 25° | 21140 | 16870 | 15751 |
| 30° | 20092 | 15369 | 14452 |
| 35° | 18056 | 13739 | 13037 |
| 40° | 15586 | 12044 | 11643 |
| 45° | 13195 | 10365 | 10094 |
| 50° | 11317 | 8750 | 8665 |
| 55° | 9806 | 7369 | 7082 |
| 60° | 8563 | 5986 | 5054 |
| 65° | 7536 | 4618 | 2802 |
| 70° | 6508 | 3045 | 1362 |
| 75° | 5507 | 1483 | 530 |
| 80° | 4293 | 631 | 316 |
| 85° | 2516 | 314 | 314 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.6 | 5.3 |
| 10°-20° | 95.0 | 15.0 |
| 20°-30° | 133.8 | 21.1 |
| 30°-40° | 136.7 | 21.5 |
| 40°-50° | 110.2 | 17.4 |
| 50°-60° | 73.9 | 11.7 |
| 60°-70° | 37.4 | 5.9 |
| 70°-80° | 12.0 | 1.9 |
| 80°-90° | 1.8 | 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° | 262.4 | 41.4 |
| 0°-40° | 399.0 | 62.9 |
| 0°-60° | 583.2 | 91.9 |
| 0°-90° | 634.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 634.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 356 | 356 | 356 | 356 | 356 | |
| 5° | 362 | 359 | 354 | 348 | 346 | 35 |
| 15° | 374 | 358 | 333 | 318 | 314 | 105 |
| 25° | 350 | 322 | 279 | 262 | 260 | 160 |
| 35° | 270 | 245 | 205 | 194 | 195 | 168 |
| 45° | 170 | 157 | 134 | 129 | 130 | 132 |
| 55° | 103 | 91 | 77 | 74 | 74 | 92 |
| 65° | 58 | 48 | 36 | 24 | 22 | 58 |
| 75° | 26 | 18 | 7 | 2 | 2 | 28 |
| 85° | 4 | 2 | 0 | 0 | 0 | 5 |
| 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° | 355.9 | 355.9 | 355.9 | 355.9 | 355.9 | 355.9 | 355.9 | 355.9 | 355.9 |
| 2.5° | 357.5 | 357.0 | 356.5 | 355.5 | 353.9 | 352.4 | 351.4 | 350.4 | 350.0 |
| 5° | 361.5 | 360.5 | 359.0 | 357.0 | 353.9 | 350.4 | 348.5 | 346.5 | 346.0 |
| 7.5° | 367.0 | 365.0 | 361.0 | 356.5 | 351.4 | 346.5 | 343.0 | 340.9 | 339.5 |
| 10° | 369.5 | 366.0 | 360.5 | 353.0 | 345.4 | 339.5 | 334.9 | 332.0 | 331.0 |
| 12.5° | 371.5 | 367.5 | 359.5 | 349.5 | 339.5 | 331.4 | 326.5 | 324.0 | 323.0 |
| 15° | 373.5 | 369.5 | 358.4 | 345.4 | 332.9 | 323.4 | 317.9 | 315.4 | 314.4 |
| 17.5° | 373.5 | 368.0 | 354.9 | 338.4 | 323.4 | 311.9 | 306.5 | 303.9 | 303.4 |
| 20° | 368.9 | 363.0 | 346.9 | 327.5 | 310.4 | 297.4 | 292.4 | 290.9 | 289.8 |
| 22.5° | 360.5 | 353.5 | 335.5 | 313.5 | 294.9 | 282.4 | 276.8 | 275.8 | 274.8 |
| 25° | 349.5 | 342.5 | 321.9 | 298.4 | 278.9 | 266.3 | 261.8 | 260.8 | 260.4 |
| 27.5° | 335.5 | 327.9 | 306.5 | 282.4 | 261.4 | 249.3 | 245.3 | 245.3 | 244.9 |
| 30° | 317.4 | 308.9 | 287.9 | 263.9 | 242.8 | 231.8 | 228.8 | 228.8 | 228.3 |
| 32.5° | 295.4 | 286.9 | 267.8 | 244.9 | 224.8 | 213.2 | 210.7 | 211.8 | 211.3 |
| 35° | 269.8 | 262.8 | 245.3 | 222.8 | 205.3 | 194.8 | 193.8 | 194.8 | 194.8 |
| 37.5° | 244.3 | 237.9 | 222.8 | 203.3 | 186.8 | 177.2 | 177.2 | 178.8 | 178.2 |
| 40° | 217.8 | 212.8 | 198.8 | 181.7 | 168.3 | 161.7 | 160.7 | 162.3 | 162.7 |
| 42.5° | 192.8 | 188.7 | 176.7 | 162.7 | 150.7 | 144.2 | 145.7 | 146.7 | 147.2 |
| 45° | 170.2 | 166.2 | 156.7 | 142.2 | 133.7 | 129.2 | 129.2 | 130.6 | 130.2 |
| 47.5° | 150.2 | 147.2 | 137.6 | 123.6 | 116.2 | 114.1 | 115.1 | 116.2 | 116.2 |
| 50° | 132.7 | 128.1 | 119.2 | 108.1 | 102.6 | 100.1 | 101.1 | 101.6 | 101.6 |
| 52.5° | 116.2 | 113.1 | 104.2 | 94.1 | 89.2 | 87.6 | 87.6 | 88.1 | 88.1 |
| 55° | 102.6 | 99.1 | 91.1 | 81.1 | 77.1 | 75.1 | 73.6 | 73.1 | 74.1 |
| 57.5° | 89.6 | 86.7 | 79.1 | 69.6 | 65.1 | 63.1 | 60.1 | 59.1 | 60.1 |
| 60° | 78.1 | 75.6 | 68.1 | 59.1 | 54.6 | 50.5 | 47.0 | 45.1 | 46.1 |
| 62.5° | 68.1 | 65.1 | 57.6 | 50.1 | 45.1 | 40.6 | 35.0 | 32.1 | 33.6 |
| 65° | 58.1 | 55.6 | 48.0 | 40.6 | 35.6 | 30.1 | 23.5 | 21.6 | 21.6 |
| 67.5° | 49.0 | 46.6 | 39.6 | 33.0 | 27.0 | 20.6 | 14.5 | 14.0 | 14.5 |
| 70° | 40.6 | 38.1 | 32.1 | 25.5 | 19.0 | 12.5 | 8.5 | 8.5 | 8.5 |
| 72.5° | 33.6 | 30.5 | 25.1 | 18.5 | 12.0 | 6.6 | 4.5 | 5.0 | 5.0 |
| 75° | 26.0 | 23.5 | 18.5 | 12.5 | 7.0 | 3.1 | 2.5 | 2.5 | 2.5 |
| 77.5° | 19.5 | 17.5 | 13.0 | 8.0 | 3.5 | 1.0 | 1.0 | 1.0 | 1.0 |
| 80° | 13.6 | 11.5 | 8.5 | 5.0 | 2.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 82.5° | 8.0 | 7.0 | 5.0 | 2.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 4.0 | 3.5 | 2.0 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 1.0 | 1.0 | 0.5 | 0.5 | 0.0 | 0.5 | 0.5 | 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



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

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