

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: P583395

Luminaire Tested: **HCC6W07D010BZ-HM60525935-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W07D010BZ-HM60525935-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

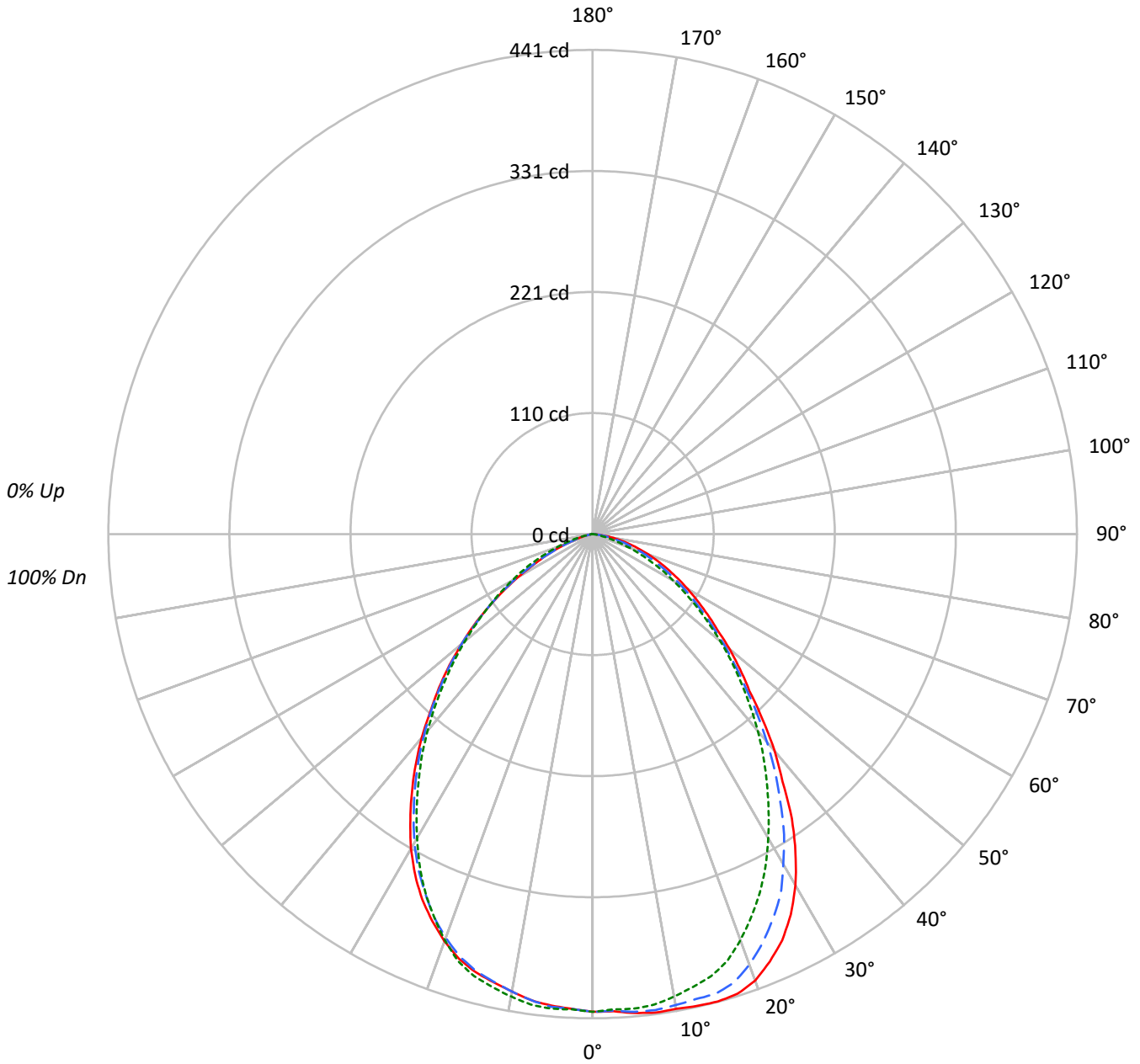
Lumens per Lamp: N/A
Luminaire Lumens: 852.6 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | | | | | | | | | | |
| 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 | | | | | | | | |
| 1 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 23852 | 23852 | 23852 |
| 5° | 24097 | 23877 | 23723 |
| 10° | 24437 | 23808 | 23552 |
| 15° | 25011 | 23655 | 23434 |
| 20° | 25249 | 22956 | 23020 |
| 25° | 24697 | 21800 | 22211 |
| 30° | 23390 | 20244 | 20934 |
| 35° | 21174 | 18511 | 19200 |
| 40° | 18449 | 16724 | 17340 |
| 45° | 15653 | 14808 | 15335 |
| 50° | 13859 | 12938 | 13279 |
| 55° | 12205 | 11068 | 11010 |
| 60° | 10942 | 9319 | 8574 |
| 65° | 9755 | 7472 | 6149 |
| 70° | 8591 | 5402 | 3831 |
| 75° | 7244 | 3262 | 2182 |
| 80° | 5588 | 1421 | 884 |
| 85° | 3208 | 377 | 377 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.3 | 4.8 |
| 10°-20° | 118.7 | 13.9 |
| 20°-30° | 171.6 | 20.1 |
| 30°-40° | 180.5 | 21.2 |
| 40°-50° | 151.8 | 17.8 |
| 50°-60° | 106.5 | 12.5 |
| 60°-70° | 58.6 | 6.9 |
| 70°-80° | 20.8 | 2.4 |
| 80°-90° | 2.7 | 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° | 331.6 | 38.9 |
| 0°-40° | 512.1 | 60.1 |
| 0°-60° | 770.4 | 90.4 |
| 0°-90° | 852.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 852.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 435 | 435 | 435 | 435 | 435 | |
| 5° | 438 | 437 | 434 | 432 | 431 | 42 |
| 15° | 441 | 433 | 417 | 412 | 413 | 124 |
| 25° | 408 | 388 | 360 | 361 | 367 | 187 |
| 35° | 316 | 298 | 277 | 282 | 287 | 196 |
| 45° | 202 | 196 | 191 | 196 | 198 | 158 |
| 55° | 128 | 121 | 116 | 116 | 115 | 115 |
| 65° | 75 | 67 | 58 | 47 | 47 | 75 |
| 75° | 34 | 27 | 15 | 10 | 10 | 37 |
| 85° | 5 | 3 | 1 | 1 | 1 | 7 |
| 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° | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 | 435.1 |
| 2.5° | 435.1 | 435.1 | 434.5 | 434.5 | 433.4 | 433.4 | 432.8 | 432.8 | 432.8 |
| 5° | 437.9 | 437.9 | 436.8 | 435.1 | 433.9 | 432.2 | 432.2 | 431.7 | 431.1 |
| 7.5° | 439.6 | 439.0 | 437.3 | 435.1 | 432.2 | 429.4 | 428.3 | 428.8 | 428.3 |
| 10° | 439.0 | 437.9 | 435.6 | 431.1 | 427.7 | 423.6 | 423.1 | 422.5 | 423.1 |
| 12.5° | 440.2 | 438.5 | 433.9 | 428.3 | 422.5 | 418.0 | 417.4 | 417.4 | 418.0 |
| 15° | 440.7 | 439.0 | 433.4 | 424.8 | 416.8 | 412.3 | 411.7 | 412.3 | 412.9 |
| 17.5° | 439.0 | 436.8 | 428.3 | 416.8 | 407.8 | 403.1 | 403.1 | 404.3 | 405.4 |
| 20° | 432.8 | 429.4 | 417.4 | 403.7 | 393.5 | 390.0 | 391.2 | 393.5 | 394.6 |
| 22.5° | 421.4 | 417.4 | 403.7 | 388.3 | 377.5 | 374.7 | 377.5 | 380.3 | 381.5 |
| 25° | 408.3 | 403.7 | 387.7 | 371.7 | 360.4 | 357.0 | 361.0 | 365.5 | 367.2 |
| 27.5° | 390.7 | 385.4 | 370.6 | 352.4 | 341.0 | 339.3 | 343.9 | 349.0 | 350.1 |
| 30° | 369.5 | 363.8 | 347.3 | 330.2 | 319.8 | 319.3 | 324.5 | 329.0 | 330.7 |
| 32.5° | 343.9 | 338.8 | 324.5 | 307.4 | 298.2 | 298.2 | 303.3 | 307.4 | 309.1 |
| 35° | 316.4 | 310.8 | 298.2 | 283.9 | 276.6 | 277.1 | 282.2 | 285.1 | 286.9 |
| 37.5° | 283.9 | 282.2 | 272.6 | 260.6 | 255.5 | 256.6 | 260.6 | 262.9 | 264.6 |
| 40° | 257.8 | 253.2 | 246.9 | 237.3 | 233.7 | 235.0 | 238.9 | 241.2 | 242.3 |
| 42.5° | 229.2 | 226.4 | 221.3 | 214.4 | 212.1 | 213.8 | 217.3 | 219.0 | 218.4 |
| 45° | 201.9 | 201.3 | 196.1 | 192.2 | 191.0 | 193.3 | 195.6 | 197.3 | 197.8 |
| 47.5° | 181.8 | 179.6 | 175.0 | 172.2 | 171.1 | 173.3 | 175.6 | 176.7 | 176.7 |
| 50° | 162.5 | 160.2 | 155.7 | 152.8 | 151.7 | 154.0 | 155.7 | 156.8 | 155.7 |
| 52.5° | 143.1 | 140.8 | 136.9 | 133.5 | 132.9 | 134.0 | 134.6 | 135.2 | 136.3 |
| 55° | 127.7 | 125.4 | 120.9 | 116.9 | 115.8 | 116.4 | 115.8 | 115.8 | 115.2 |
| 57.5° | 113.0 | 110.6 | 106.0 | 101.5 | 99.8 | 99.3 | 97.6 | 97.0 | 96.4 |
| 60° | 99.8 | 97.0 | 92.3 | 87.2 | 85.0 | 82.7 | 79.9 | 78.2 | 78.2 |
| 62.5° | 87.2 | 84.4 | 79.3 | 74.7 | 71.3 | 67.3 | 62.8 | 60.4 | 60.4 |
| 65° | 75.2 | 73.0 | 67.3 | 62.2 | 57.6 | 52.5 | 47.4 | 46.2 | 47.4 |
| 67.5° | 63.9 | 61.6 | 55.9 | 50.8 | 45.1 | 38.7 | 34.2 | 34.2 | 35.3 |
| 70° | 53.6 | 51.3 | 46.2 | 39.9 | 33.7 | 27.4 | 23.9 | 23.9 | 23.9 |
| 72.5° | 44.0 | 41.6 | 35.9 | 30.3 | 23.9 | 17.7 | 16.0 | 16.5 | 16.0 |
| 75° | 34.2 | 32.5 | 27.4 | 21.1 | 15.4 | 10.9 | 10.3 | 9.7 | 10.3 |
| 77.5° | 25.6 | 23.9 | 19.4 | 13.7 | 8.5 | 6.2 | 5.7 | 5.7 | 5.7 |
| 80° | 17.7 | 16.0 | 12.6 | 7.9 | 4.5 | 2.8 | 2.8 | 2.8 | 2.8 |
| 82.5° | 10.9 | 9.2 | 6.8 | 4.0 | 1.7 | 1.7 | 1.7 | 1.7 | 1.7 |
| 85° | 5.1 | 4.0 | 2.8 | 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



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

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