

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: P581602

Luminaire Tested: **HCC6W10D010MB-HM60525835-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581602
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: HCC6W10D010MB-HM60525835-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

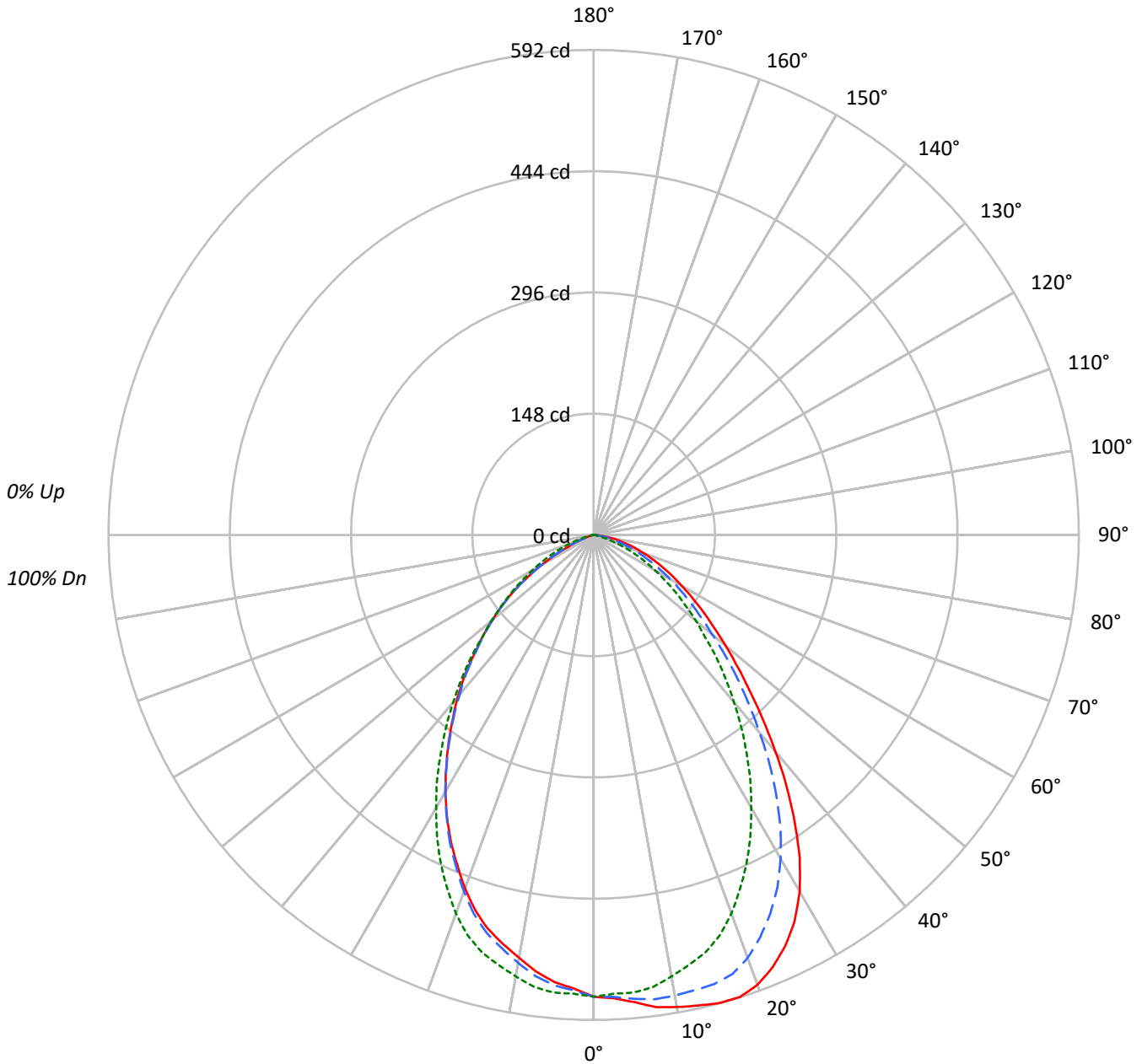
Lumens per Lamp: N/A
Luminaire Lumens: 1004.7 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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 | 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 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | 54 | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 30902 | 30902 | 30902 |
| 5° | 31504 | 30850 | 30151 |
| 10° | 32576 | 30455 | 29174 |
| 15° | 33576 | 29926 | 28263 |
| 20° | 34099 | 28679 | 26783 |
| 25° | 33474 | 26717 | 24939 |
| 30° | 31821 | 24339 | 22890 |
| 35° | 28603 | 21757 | 20646 |
| 40° | 24682 | 19071 | 18449 |
| 45° | 20901 | 16413 | 15978 |
| 50° | 17918 | 13867 | 13731 |
| 55° | 15541 | 11670 | 11221 |
| 60° | 13563 | 9484 | 7993 |
| 65° | 11934 | 7303 | 4423 |
| 70° | 10290 | 4825 | 2164 |
| 75° | 8727 | 2351 | 847 |
| 80° | 6756 | 1010 | 505 |
| 85° | 3963 | 503 | 503 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 53.2 | 5.3 |
| 10°-20° | 150.4 | 15.0 |
| 20°-30° | 211.9 | 21.1 |
| 30°-40° | 216.5 | 21.5 |
| 40°-50° | 174.5 | 17.4 |
| 50°-60° | 117.1 | 11.7 |
| 60°-70° | 59.2 | 5.9 |
| 70°-80° | 18.9 | 1.9 |
| 80°-90° | 2.9 | 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° | 415.5 | 41.4 |
| 0°-40° | 632.0 | 62.9 |
| 0°-60° | 923.6 | 91.9 |
| 0°-90° | 1004.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1004.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 564 | 564 | 564 | 564 | 564 | |
| 5° | 572 | 568 | 561 | 552 | 548 | 55 |
| 15° | 592 | 568 | 527 | 504 | 498 | 167 |
| 25° | 553 | 510 | 442 | 415 | 412 | 253 |
| 35° | 427 | 388 | 325 | 307 | 308 | 266 |
| 45° | 270 | 248 | 212 | 205 | 206 | 210 |
| 55° | 163 | 144 | 122 | 117 | 117 | 146 |
| 65° | 92 | 76 | 56 | 37 | 34 | 92 |
| 75° | 41 | 29 | 11 | 4 | 4 | 44 |
| 85° | 6 | 3 | 1 | 1 | 1 | 9 |
| 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° | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 | 563.7 |
| 2.5° | 566.1 | 565.3 | 564.5 | 562.9 | 560.6 | 558.2 | 556.6 | 555.0 | 554.2 |
| 5° | 572.5 | 570.9 | 568.5 | 565.3 | 560.6 | 555.0 | 551.8 | 548.7 | 547.9 |
| 7.5° | 581.3 | 578.0 | 571.7 | 564.5 | 556.6 | 548.7 | 543.1 | 540.0 | 537.6 |
| 10° | 585.2 | 579.7 | 570.9 | 559.0 | 547.1 | 537.6 | 530.5 | 525.7 | 524.1 |
| 12.5° | 588.4 | 582.1 | 569.3 | 553.4 | 537.6 | 524.9 | 517.0 | 513.0 | 511.4 |
| 15° | 591.6 | 585.2 | 567.7 | 547.1 | 527.3 | 512.2 | 503.5 | 499.6 | 498.0 |
| 17.5° | 591.6 | 582.9 | 562.2 | 536.0 | 512.2 | 494.0 | 485.3 | 481.3 | 480.5 |
| 20° | 584.5 | 574.8 | 549.5 | 518.6 | 491.6 | 471.0 | 463.1 | 460.7 | 459.1 |
| 22.5° | 570.9 | 559.8 | 531.2 | 496.4 | 467.1 | 447.3 | 438.5 | 437.0 | 435.4 |
| 25° | 553.4 | 542.3 | 509.9 | 472.6 | 441.7 | 421.9 | 414.8 | 413.1 | 412.3 |
| 27.5° | 531.2 | 519.4 | 485.3 | 447.3 | 414.0 | 394.8 | 388.5 | 388.5 | 387.7 |
| 30° | 502.7 | 489.3 | 456.0 | 417.9 | 384.5 | 367.1 | 362.4 | 362.4 | 361.6 |
| 32.5° | 467.9 | 454.4 | 424.3 | 387.7 | 356.0 | 337.8 | 333.8 | 335.4 | 334.6 |
| 35° | 427.4 | 416.3 | 388.5 | 352.8 | 325.1 | 308.5 | 306.9 | 308.5 | 308.5 |
| 37.5° | 386.9 | 376.6 | 352.8 | 321.9 | 295.8 | 280.7 | 280.7 | 283.1 | 282.3 |
| 40° | 344.9 | 337.0 | 314.8 | 287.9 | 266.5 | 256.2 | 254.6 | 257.0 | 257.8 |
| 42.5° | 305.3 | 299.0 | 279.9 | 257.8 | 238.6 | 228.3 | 230.7 | 232.3 | 233.1 |
| 45° | 269.6 | 263.3 | 248.1 | 225.2 | 211.7 | 204.6 | 204.6 | 206.9 | 206.1 |
| 47.5° | 237.8 | 233.1 | 218.0 | 195.8 | 184.0 | 180.8 | 182.4 | 184.0 | 184.0 |
| 50° | 210.1 | 203.0 | 188.7 | 171.3 | 162.6 | 158.6 | 160.2 | 161.0 | 161.0 |
| 52.5° | 184.0 | 179.2 | 164.9 | 149.1 | 141.2 | 138.8 | 138.8 | 139.6 | 139.6 |
| 55° | 162.6 | 157.0 | 144.3 | 128.5 | 122.1 | 119.0 | 116.6 | 115.8 | 117.4 |
| 57.5° | 142.0 | 137.2 | 125.3 | 110.3 | 103.1 | 100.0 | 95.2 | 93.6 | 95.2 |
| 60° | 123.7 | 119.8 | 107.9 | 93.6 | 86.5 | 80.0 | 74.5 | 71.3 | 72.9 |
| 62.5° | 107.9 | 103.1 | 91.2 | 79.2 | 71.3 | 64.2 | 55.5 | 50.7 | 53.1 |
| 65° | 92.0 | 88.1 | 76.1 | 64.2 | 56.3 | 47.5 | 37.2 | 34.1 | 34.1 |
| 67.5° | 77.7 | 73.7 | 62.6 | 52.3 | 42.8 | 32.5 | 23.0 | 22.2 | 23.0 |
| 70° | 64.2 | 60.2 | 50.7 | 40.4 | 30.1 | 19.8 | 13.5 | 13.5 | 13.5 |
| 72.5° | 53.1 | 48.3 | 39.6 | 29.3 | 19.0 | 10.3 | 7.1 | 7.9 | 7.9 |
| 75° | 41.2 | 37.2 | 29.3 | 19.8 | 11.1 | 4.8 | 4.0 | 4.0 | 4.0 |
| 77.5° | 30.9 | 27.7 | 20.6 | 12.7 | 5.5 | 1.6 | 1.6 | 1.6 | 1.6 |
| 80° | 21.4 | 18.2 | 13.5 | 7.9 | 3.2 | 1.6 | 1.6 | 1.6 | 1.6 |
| 82.5° | 12.7 | 11.1 | 7.9 | 4.0 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 6.3 | 5.5 | 3.2 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 1.6 | 1.6 | 0.8 | 0.8 | 0.0 | 0.8 | 0.8 | 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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