

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: P593086

Luminaire Tested: **HCC6W10D010MB-HM60525950-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593086
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W10D010MB-HM60525950-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

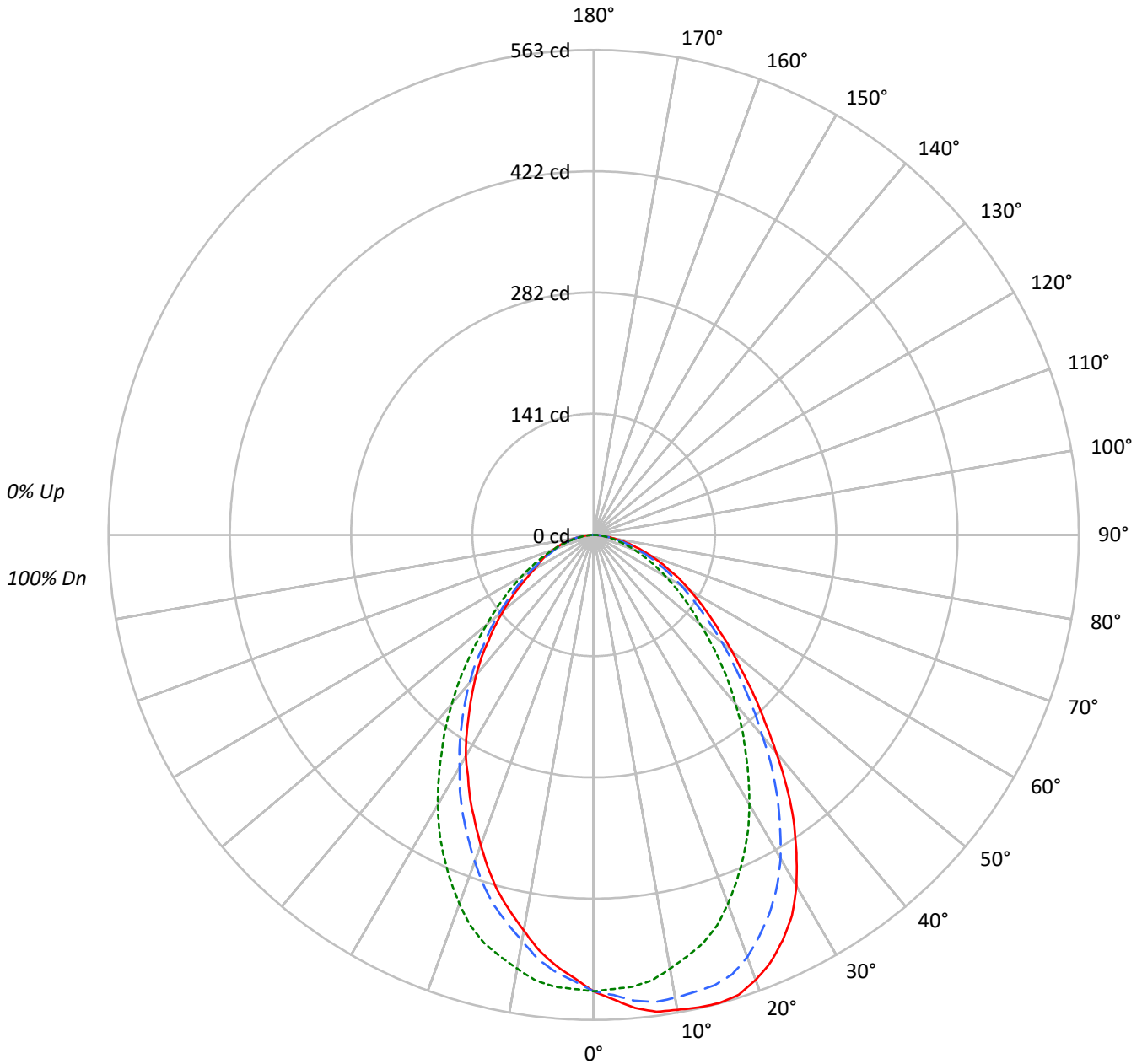
Lumens per Lamp: N/A
Luminaire Lumens: 986.9 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 110 | 106 | 103 | 99 | 108 | 104 | 101 | 98 | 100 | 97 | 95 | 96 | 94 | 92 | 93 | 91 | 89 | 87 | | | | | 87 | | | |
| 2 | 102 | 95 | 89 | 84 | 99 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 83 | 80 | 78 | 76 | | | | | 76 | | | |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | | | 66 | | | |
| 4 | 87 | 76 | 69 | 63 | 85 | 75 | 68 | 62 | 73 | 67 | 62 | 71 | 65 | 61 | 69 | 64 | 60 | 58 | | | | | 58 | | | |
| 5 | 81 | 69 | 61 | 55 | 79 | 68 | 61 | 55 | 66 | 60 | 55 | 64 | 59 | 54 | 63 | 58 | 53 | 51 | | | | | 51 | | | |
| 6 | 75 | 63 | 55 | 49 | 73 | 62 | 55 | 49 | 61 | 54 | 49 | 59 | 53 | 48 | 57 | 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 | 39 | 34 | 57 | 45 | 38 | 34 | 44 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 29044 | 29044 | 29044 |
| 5° | 30332 | 28962 | 27625 |
| 10° | 31162 | 28462 | 25963 |
| 15° | 31930 | 27844 | 24325 |
| 20° | 32074 | 26579 | 22344 |
| 25° | 31399 | 24891 | 20487 |
| 30° | 29796 | 22890 | 18781 |
| 35° | 27064 | 20565 | 16851 |
| 40° | 23573 | 18313 | 15157 |
| 45° | 20397 | 16033 | 13319 |
| 50° | 17825 | 13808 | 11676 |
| 55° | 15741 | 12129 | 10016 |
| 60° | 14144 | 10635 | 8673 |
| 65° | 12673 | 9249 | 8419 |
| 70° | 11316 | 7886 | 7886 |
| 75° | 9807 | 6651 | 7413 |
| 80° | 7861 | 5619 | 6756 |
| 85° | 5409 | 4906 | 5850 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 49.8 | 5.0 |
| 10°-20° | 138.4 | 14.0 |
| 20°-30° | 192.9 | 19.5 |
| 30°-40° | 198.8 | 20.1 |
| 40°-50° | 164.7 | 16.7 |
| 50°-60° | 118.4 | 12.0 |
| 60°-70° | 75.4 | 7.6 |
| 70°-80° | 38.7 | 3.9 |
| 80°-90° | 9.8 | 1.0 |
| 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° | 381.1 | 38.6 |
| 0°-40° | 579.9 | 58.8 |
| 0°-60° | 863.0 | 87.4 |
| 0°-90° | 986.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 986.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 530 | 530 | 530 | 530 | 530 | |
| 5° | 551 | 543 | 526 | 509 | 502 | 53 |
| 15° | 563 | 541 | 491 | 446 | 429 | 159 |
| 25° | 519 | 484 | 412 | 359 | 339 | 238 |
| 35° | 404 | 372 | 307 | 267 | 252 | 251 |
| 45° | 263 | 245 | 207 | 180 | 172 | 204 |
| 55° | 165 | 151 | 127 | 113 | 105 | 148 |
| 65° | 98 | 87 | 71 | 62 | 65 | 98 |
| 75° | 46 | 40 | 31 | 33 | 35 | 49 |
| 85° | 9 | 8 | 8 | 9 | 9 | 11 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593086

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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 529.8 | 529.8 | 529.8 | 529.8 | 529.8 | 529.8 | 529.8 | 529.8 | 529.8 |
| 2.5° | 539.9 | 537.7 | 534.8 | 531.9 | 527.6 | 522.6 | 518.5 | 517.0 | 514.8 |
| 5° | 551.2 | 548.3 | 542.7 | 535.5 | 526.3 | 517.0 | 509.2 | 504.2 | 502.0 |
| 7.5° | 558.3 | 554.8 | 547.0 | 534.8 | 521.3 | 507.7 | 496.3 | 489.1 | 486.3 |
| 10° | 559.8 | 556.2 | 545.5 | 529.1 | 511.3 | 492.8 | 478.5 | 469.9 | 466.4 |
| 12.5° | 561.9 | 556.9 | 543.4 | 524.1 | 501.2 | 479.9 | 462.1 | 451.3 | 447.8 |
| 15° | 562.6 | 556.9 | 541.2 | 517.7 | 490.6 | 464.9 | 445.7 | 432.9 | 428.6 |
| 17.5° | 559.8 | 553.3 | 534.8 | 506.3 | 475.7 | 448.5 | 425.7 | 412.2 | 406.5 |
| 20° | 549.8 | 542.7 | 521.3 | 489.1 | 455.6 | 427.1 | 403.6 | 389.3 | 383.0 |
| 22.5° | 536.9 | 527.6 | 503.4 | 469.2 | 434.2 | 404.4 | 380.8 | 366.5 | 360.1 |
| 25° | 519.1 | 510.5 | 483.5 | 447.1 | 411.5 | 380.1 | 358.7 | 343.7 | 338.7 |
| 27.5° | 498.4 | 488.5 | 460.6 | 424.3 | 387.9 | 356.6 | 335.9 | 322.3 | 315.9 |
| 30° | 470.7 | 461.4 | 433.6 | 397.2 | 361.6 | 332.2 | 311.0 | 299.5 | 296.7 |
| 32.5° | 437.9 | 429.9 | 402.9 | 368.7 | 334.4 | 307.3 | 289.6 | 277.3 | 274.5 |
| 35° | 404.4 | 395.1 | 371.5 | 339.4 | 307.3 | 283.1 | 266.7 | 255.9 | 251.8 |
| 37.5° | 367.9 | 359.4 | 339.4 | 311.0 | 282.4 | 259.6 | 245.3 | 236.0 | 231.7 |
| 40° | 329.4 | 323.1 | 304.5 | 281.6 | 255.9 | 236.0 | 223.9 | 216.1 | 211.8 |
| 42.5° | 293.8 | 287.4 | 274.5 | 253.1 | 231.7 | 213.9 | 203.2 | 196.1 | 192.6 |
| 45° | 263.1 | 257.4 | 244.6 | 226.1 | 206.8 | 191.9 | 180.4 | 175.5 | 171.8 |
| 47.5° | 232.5 | 229.6 | 218.2 | 201.0 | 183.3 | 170.5 | 162.6 | 156.9 | 154.1 |
| 50° | 209.0 | 205.3 | 194.7 | 176.8 | 161.9 | 151.9 | 144.8 | 139.8 | 136.9 |
| 52.5° | 184.7 | 181.1 | 171.2 | 156.2 | 144.0 | 134.8 | 127.7 | 123.4 | 120.6 |
| 55° | 164.7 | 161.9 | 151.1 | 137.7 | 126.9 | 119.1 | 112.6 | 107.7 | 104.8 |
| 57.5° | 146.1 | 143.3 | 133.3 | 120.6 | 111.3 | 104.1 | 98.4 | 94.2 | 90.6 |
| 60° | 129.0 | 126.9 | 116.9 | 104.8 | 97.0 | 89.9 | 84.9 | 81.3 | 79.1 |
| 62.5° | 114.1 | 109.8 | 101.3 | 90.6 | 83.4 | 77.8 | 72.8 | 70.6 | 72.0 |
| 65° | 97.7 | 95.5 | 87.1 | 77.8 | 71.3 | 65.7 | 62.0 | 63.5 | 64.9 |
| 67.5° | 84.1 | 81.3 | 74.1 | 65.7 | 59.9 | 55.6 | 53.4 | 56.4 | 57.1 |
| 70° | 70.6 | 67.7 | 61.4 | 54.2 | 49.2 | 46.3 | 46.3 | 48.4 | 49.2 |
| 72.5° | 57.7 | 55.6 | 49.9 | 44.3 | 40.6 | 38.5 | 40.0 | 41.3 | 42.1 |
| 75° | 46.3 | 44.3 | 40.0 | 35.0 | 31.4 | 31.4 | 32.8 | 34.2 | 35.0 |
| 77.5° | 35.7 | 34.2 | 30.0 | 26.4 | 24.9 | 24.9 | 26.4 | 27.1 | 27.8 |
| 80° | 24.9 | 23.5 | 21.4 | 19.2 | 17.8 | 19.2 | 20.7 | 20.7 | 21.4 |
| 82.5° | 16.4 | 15.7 | 14.3 | 12.8 | 12.8 | 13.6 | 14.3 | 14.9 | 14.9 |
| 85° | 8.6 | 8.6 | 7.8 | 7.1 | 7.8 | 8.6 | 8.6 | 9.3 | 9.3 |
| 87.5° | 2.8 | 2.8 | 2.8 | 2.8 | 3.5 | 3.5 | 3.5 | 3.5 | 3.5 |
| 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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