

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: P581612

Luminaire Tested: **HCC6S10D010MB-HM60525840-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6S10D010MB-HM60525840-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

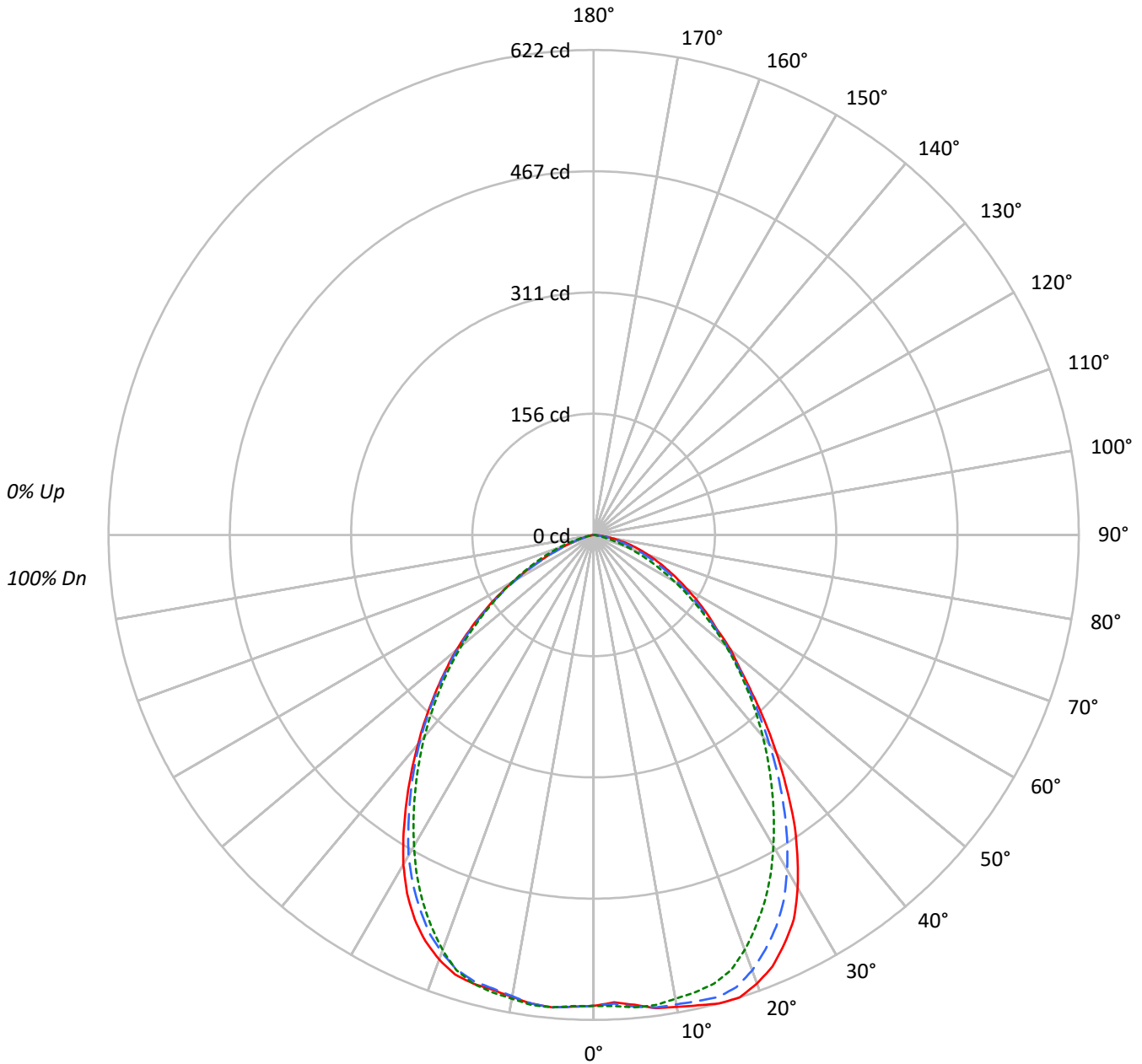
Lumens per Lamp: N/A
Luminaire Lumens: 1219.5 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | | | 68 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | 60 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 33111 | 33111 | 33111 |
| 5° | 33287 | 33469 | 33469 |
| 10° | 34218 | 33622 | 33494 |
| 15° | 35301 | 33820 | 33820 |
| 20° | 35721 | 33049 | 33807 |
| 25° | 35004 | 31387 | 32875 |
| 30° | 33113 | 29169 | 30884 |
| 35° | 29961 | 26676 | 27994 |
| 40° | 26070 | 24131 | 25076 |
| 45° | 22274 | 21514 | 22274 |
| 50° | 19547 | 18848 | 19616 |
| 55° | 17051 | 15885 | 16506 |
| 60° | 15076 | 13190 | 13003 |
| 65° | 13374 | 10416 | 8911 |
| 70° | 11813 | 7341 | 5369 |
| 75° | 10040 | 4173 | 2584 |
| 80° | 7514 | 1294 | 789 |
| 85° | 4151 | 503 | 503 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 57.9 | 4.8 |
| 10°-20° | 169.5 | 13.9 |
| 20°-30° | 247.6 | 20.3 |
| 30°-40° | 259.7 | 21.3 |
| 40°-50° | 218.8 | 17.9 |
| 50°-60° | 153.3 | 12.6 |
| 60°-70° | 82.2 | 6.7 |
| 70°-80° | 27.6 | 2.3 |
| 80°-90° | 3.0 | 0.2 |
| 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° | 475.1 | 39.0 |
| 0°-40° | 734.8 | 60.2 |
| 0°-60° | 1106.8 | 90.8 |
| 0°-90° | 1219.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1219.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 604 | 604 | 604 | 604 | 604 | |
| 5° | 605 | 607 | 608 | 608 | 608 | 58 |
| 15° | 622 | 614 | 596 | 593 | 596 | 175 |
| 25° | 579 | 554 | 519 | 528 | 544 | 265 |
| 35° | 448 | 425 | 399 | 410 | 418 | 278 |
| 45° | 287 | 282 | 278 | 285 | 287 | 224 |
| 55° | 178 | 173 | 166 | 170 | 173 | 161 |
| 65° | 103 | 94 | 80 | 66 | 69 | 103 |
| 75° | 47 | 37 | 20 | 12 | 12 | 50 |
| 85° | 7 | 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° | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 | 604.0 |
| 2.5° | 600.0 | 600.0 | 601.7 | 603.2 | 604.9 | 604.9 | 605.7 | 606.5 | 605.7 |
| 5° | 604.9 | 604.9 | 607.3 | 608.2 | 608.2 | 607.3 | 608.2 | 608.2 | 608.2 |
| 7.5° | 612.3 | 610.6 | 611.4 | 609.8 | 608.2 | 607.3 | 606.5 | 606.5 | 606.5 |
| 10° | 614.7 | 613.1 | 611.4 | 608.2 | 604.0 | 601.7 | 600.8 | 601.7 | 601.7 |
| 12.5° | 618.0 | 616.4 | 612.3 | 605.7 | 600.8 | 596.7 | 595.9 | 597.6 | 597.6 |
| 15° | 622.0 | 620.4 | 613.9 | 603.2 | 595.9 | 591.8 | 592.6 | 594.3 | 595.9 |
| 17.5° | 622.0 | 618.9 | 608.2 | 594.3 | 585.2 | 581.2 | 584.5 | 588.5 | 591.0 |
| 20° | 612.3 | 609.0 | 594.3 | 577.1 | 566.5 | 564.0 | 569.7 | 577.1 | 579.5 |
| 22.5° | 599.2 | 592.6 | 575.4 | 555.0 | 543.5 | 543.5 | 551.7 | 560.7 | 564.0 |
| 25° | 578.7 | 573.8 | 554.1 | 530.5 | 518.9 | 518.1 | 528.0 | 540.2 | 543.5 |
| 27.5° | 555.8 | 549.2 | 528.0 | 503.4 | 491.2 | 492.0 | 502.6 | 514.8 | 518.1 |
| 30° | 523.1 | 514.8 | 496.0 | 472.3 | 460.8 | 464.1 | 474.8 | 483.7 | 487.9 |
| 32.5° | 486.2 | 478.8 | 461.6 | 439.6 | 429.7 | 433.0 | 442.0 | 450.2 | 453.5 |
| 35° | 447.7 | 439.6 | 424.8 | 405.1 | 398.6 | 401.9 | 410.1 | 416.6 | 418.3 |
| 37.5° | 404.4 | 398.6 | 387.9 | 372.4 | 367.6 | 371.6 | 378.2 | 382.3 | 383.9 |
| 40° | 364.3 | 359.3 | 350.4 | 338.9 | 337.2 | 340.5 | 347.1 | 349.6 | 350.4 |
| 42.5° | 325.0 | 320.8 | 315.1 | 307.0 | 307.0 | 310.2 | 315.9 | 317.6 | 318.4 |
| 45° | 287.3 | 284.8 | 282.4 | 275.9 | 277.5 | 281.5 | 284.8 | 287.3 | 287.3 |
| 47.5° | 254.6 | 255.4 | 252.1 | 247.2 | 248.8 | 252.9 | 255.4 | 257.9 | 257.9 |
| 50° | 229.2 | 226.7 | 223.5 | 218.6 | 221.0 | 224.2 | 227.5 | 229.2 | 230.0 |
| 52.5° | 199.7 | 198.9 | 196.4 | 190.7 | 192.3 | 194.0 | 197.3 | 199.7 | 200.6 |
| 55° | 178.4 | 176.0 | 172.7 | 166.2 | 166.2 | 167.8 | 169.5 | 171.0 | 172.7 |
| 57.5° | 158.0 | 155.5 | 150.6 | 143.2 | 142.4 | 142.4 | 141.6 | 143.2 | 145.7 |
| 60° | 137.5 | 136.7 | 129.3 | 122.8 | 120.3 | 117.8 | 114.6 | 115.5 | 118.6 |
| 62.5° | 119.5 | 117.8 | 111.3 | 103.1 | 98.3 | 94.2 | 90.0 | 89.2 | 92.5 |
| 65° | 103.1 | 101.5 | 94.2 | 85.9 | 80.3 | 72.9 | 66.3 | 66.3 | 68.7 |
| 67.5° | 88.4 | 85.1 | 78.6 | 69.6 | 62.3 | 53.2 | 46.6 | 48.3 | 49.1 |
| 70° | 73.7 | 71.2 | 63.8 | 54.8 | 45.8 | 36.8 | 32.7 | 33.5 | 33.5 |
| 72.5° | 60.6 | 57.3 | 49.9 | 41.0 | 31.9 | 23.8 | 22.1 | 21.3 | 21.3 |
| 75° | 47.4 | 44.1 | 36.8 | 27.8 | 19.7 | 13.9 | 12.2 | 12.2 | 12.2 |
| 77.5° | 34.4 | 31.9 | 25.4 | 17.2 | 10.6 | 6.6 | 5.8 | 4.9 | 4.9 |
| 80° | 23.8 | 21.3 | 15.5 | 9.1 | 4.1 | 2.5 | 2.5 | 2.5 | 2.5 |
| 82.5° | 13.9 | 11.4 | 7.4 | 4.1 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 |
| 85° | 6.6 | 4.9 | 3.3 | 1.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 |
| 87.5° | 0.8 | 0.8 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 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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