

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: P581691

Luminaire Tested: **HCC6S10D010MB-HM60525940-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581691
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: HCC6S10D010MB-HM60525940-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

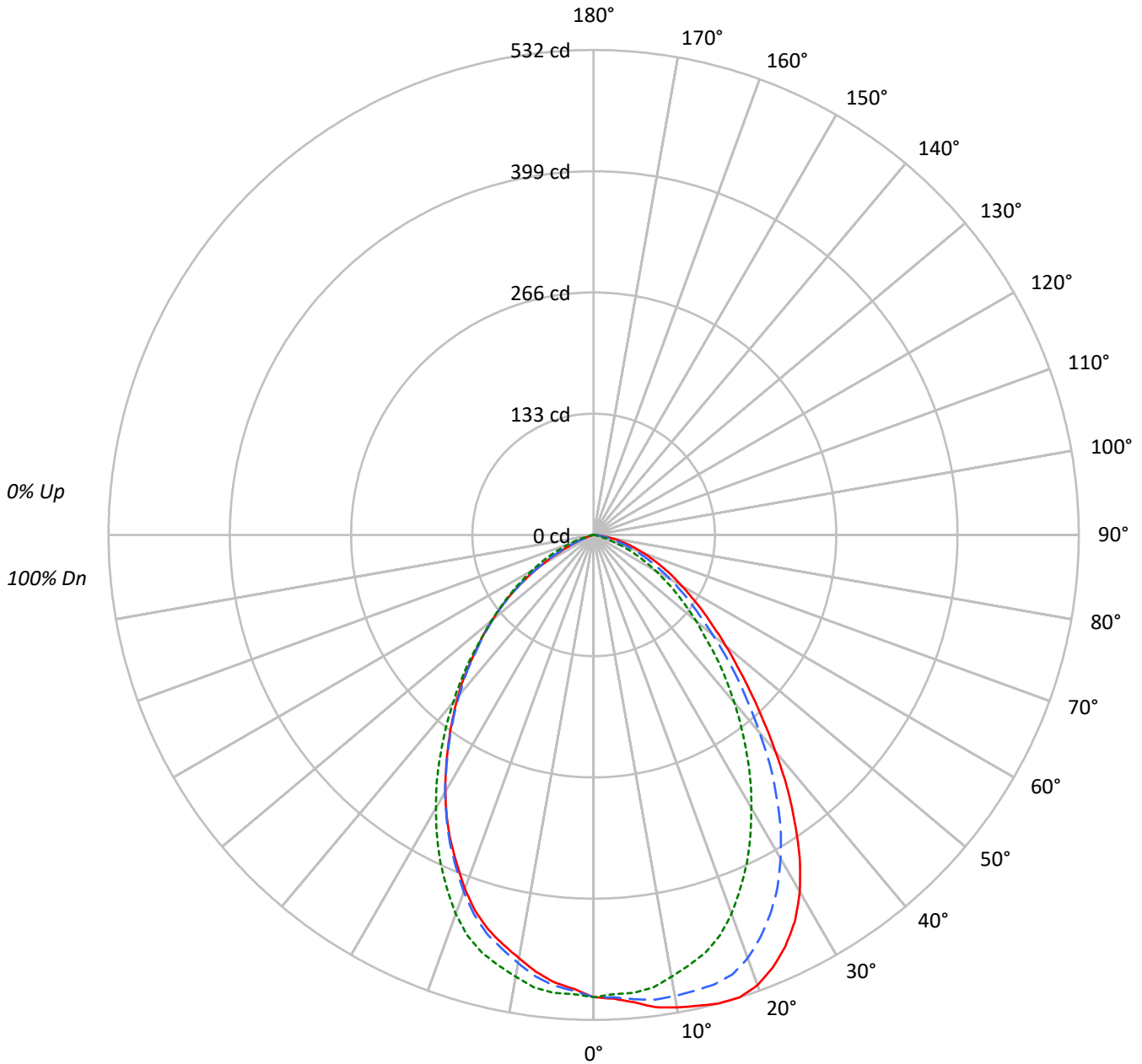
Lumens per Lamp: N/A
Luminaire Lumens: 903.5 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 0 | | | | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 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° | 27794 | 27794 | 27794 |
| 5° | 28329 | 27746 | 27119 |
| 10° | 29297 | 27393 | 26241 |
| 15° | 30187 | 26913 | 25414 |
| 20° | 30663 | 25797 | 24082 |
| 25° | 30105 | 24026 | 22429 |
| 30° | 28618 | 21889 | 20585 |
| 35° | 25719 | 19568 | 18558 |
| 40° | 22199 | 17146 | 16581 |
| 45° | 18800 | 14761 | 14374 |
| 50° | 16110 | 12460 | 12349 |
| 55° | 13964 | 10494 | 10083 |
| 60° | 12203 | 8530 | 7203 |
| 65° | 10727 | 6564 | 3982 |
| 70° | 9248 | 4344 | 1939 |
| 75° | 7858 | 2118 | 741 |
| 80° | 6061 | 884 | 474 |
| 85° | 3585 | 440 | 440 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 47.8 | 5.3 |
| 10°-20° | 135.3 | 15.0 |
| 20°-30° | 190.5 | 21.1 |
| 30°-40° | 194.7 | 21.5 |
| 40°-50° | 156.9 | 17.4 |
| 50°-60° | 105.3 | 11.7 |
| 60°-70° | 53.3 | 5.9 |
| 70°-80° | 17.0 | 1.9 |
| 80°-90° | 2.6 | 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° | 373.7 | 41.4 |
| 0°-40° | 568.3 | 62.9 |
| 0°-60° | 830.6 | 91.9 |
| 0°-90° | 903.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 903.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 507 | 507 | 507 | 507 | 507 | |
| 5° | 515 | 511 | 504 | 496 | 493 | 50 |
| 15° | 532 | 510 | 474 | 453 | 448 | 150 |
| 25° | 498 | 459 | 397 | 373 | 371 | 228 |
| 35° | 384 | 349 | 292 | 276 | 277 | 239 |
| 45° | 242 | 223 | 190 | 184 | 185 | 189 |
| 55° | 146 | 130 | 110 | 105 | 106 | 132 |
| 65° | 83 | 68 | 51 | 34 | 31 | 83 |
| 75° | 37 | 26 | 10 | 4 | 4 | 40 |
| 85° | 6 | 3 | 1 | 1 | 1 | 8 |
| 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° | 507.0 | 507.0 | 507.0 | 507.0 | 507.0 | 507.0 | 507.0 | 507.0 | 507.0 |
| 2.5° | 509.2 | 508.4 | 507.7 | 506.3 | 504.2 | 502.0 | 500.6 | 499.2 | 498.4 |
| 5° | 514.8 | 513.5 | 511.3 | 508.4 | 504.2 | 499.2 | 496.3 | 493.4 | 492.8 |
| 7.5° | 522.6 | 519.8 | 514.2 | 507.7 | 500.6 | 493.4 | 488.5 | 485.6 | 483.5 |
| 10° | 526.3 | 521.3 | 513.5 | 502.7 | 492.1 | 483.5 | 477.0 | 472.7 | 471.4 |
| 12.5° | 529.1 | 523.4 | 512.0 | 497.7 | 483.5 | 472.0 | 464.9 | 461.4 | 459.9 |
| 15° | 531.9 | 526.3 | 510.5 | 492.1 | 474.2 | 460.6 | 452.8 | 449.3 | 447.8 |
| 17.5° | 531.9 | 524.1 | 505.6 | 482.0 | 460.6 | 444.3 | 436.4 | 432.9 | 432.1 |
| 20° | 525.6 | 517.0 | 494.1 | 466.4 | 442.2 | 423.6 | 416.5 | 414.3 | 412.8 |
| 22.5° | 513.5 | 503.4 | 477.8 | 446.3 | 420.0 | 402.2 | 394.4 | 392.9 | 391.4 |
| 25° | 497.7 | 487.8 | 458.6 | 425.0 | 397.2 | 379.3 | 373.0 | 371.5 | 370.8 |
| 27.5° | 477.8 | 467.1 | 436.4 | 402.2 | 372.2 | 355.1 | 349.4 | 349.4 | 348.7 |
| 30° | 452.1 | 440.0 | 410.0 | 375.8 | 345.8 | 330.2 | 325.9 | 325.9 | 325.2 |
| 32.5° | 420.8 | 408.7 | 381.5 | 348.7 | 320.1 | 303.8 | 300.2 | 301.7 | 300.9 |
| 35° | 384.3 | 374.4 | 349.4 | 317.3 | 292.4 | 277.3 | 276.0 | 277.3 | 277.3 |
| 37.5° | 348.0 | 338.7 | 317.3 | 289.6 | 266.0 | 252.4 | 252.4 | 254.6 | 253.9 |
| 40° | 310.2 | 303.0 | 283.1 | 258.9 | 239.6 | 230.4 | 228.9 | 231.0 | 231.7 |
| 42.5° | 274.5 | 268.8 | 251.8 | 231.7 | 214.6 | 205.3 | 207.5 | 209.0 | 209.6 |
| 45° | 242.5 | 236.7 | 223.2 | 202.5 | 190.4 | 184.0 | 184.0 | 186.1 | 185.4 |
| 47.5° | 213.9 | 209.6 | 196.1 | 176.1 | 165.4 | 162.6 | 164.0 | 165.4 | 165.4 |
| 50° | 188.9 | 182.6 | 169.7 | 154.1 | 146.1 | 142.6 | 144.0 | 144.8 | 144.8 |
| 52.5° | 165.4 | 161.2 | 148.3 | 134.0 | 126.9 | 124.7 | 124.7 | 125.5 | 125.5 |
| 55° | 146.1 | 141.2 | 129.7 | 115.6 | 109.8 | 107.0 | 104.8 | 104.1 | 105.5 |
| 57.5° | 127.7 | 123.4 | 112.6 | 99.2 | 92.7 | 89.9 | 85.6 | 84.1 | 85.6 |
| 60° | 111.3 | 107.7 | 97.0 | 84.1 | 77.8 | 72.0 | 67.0 | 64.2 | 65.7 |
| 62.5° | 97.0 | 92.7 | 82.0 | 71.3 | 64.2 | 57.7 | 49.9 | 45.6 | 47.8 |
| 65° | 82.7 | 79.1 | 68.5 | 57.7 | 50.6 | 42.8 | 33.5 | 30.7 | 30.7 |
| 67.5° | 69.8 | 66.3 | 56.4 | 47.1 | 38.5 | 29.2 | 20.7 | 19.9 | 20.7 |
| 70° | 57.7 | 54.2 | 45.6 | 36.3 | 27.1 | 17.8 | 12.1 | 12.1 | 12.1 |
| 72.5° | 47.8 | 43.5 | 35.7 | 26.4 | 17.1 | 9.3 | 6.5 | 7.1 | 7.1 |
| 75° | 37.1 | 33.5 | 26.4 | 17.8 | 10.0 | 4.3 | 3.5 | 3.5 | 3.5 |
| 77.5° | 27.8 | 24.9 | 18.6 | 11.4 | 5.0 | 1.5 | 1.5 | 1.5 | 1.5 |
| 80° | 19.2 | 16.4 | 12.1 | 7.1 | 2.8 | 1.5 | 1.5 | 1.5 | 1.5 |
| 82.5° | 11.4 | 10.0 | 7.1 | 3.5 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 |
| 85° | 5.7 | 5.0 | 2.8 | 1.5 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 |
| 87.5° | 1.5 | 1.5 | 0.7 | 0.7 | 0.0 | 0.7 | 0.7 | 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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