

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: P582880

Luminaire Tested: **HCC6S05D010MB-HM60525830-61WWW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582880
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: HCC6S05D010MB-HM60525830-61WWW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

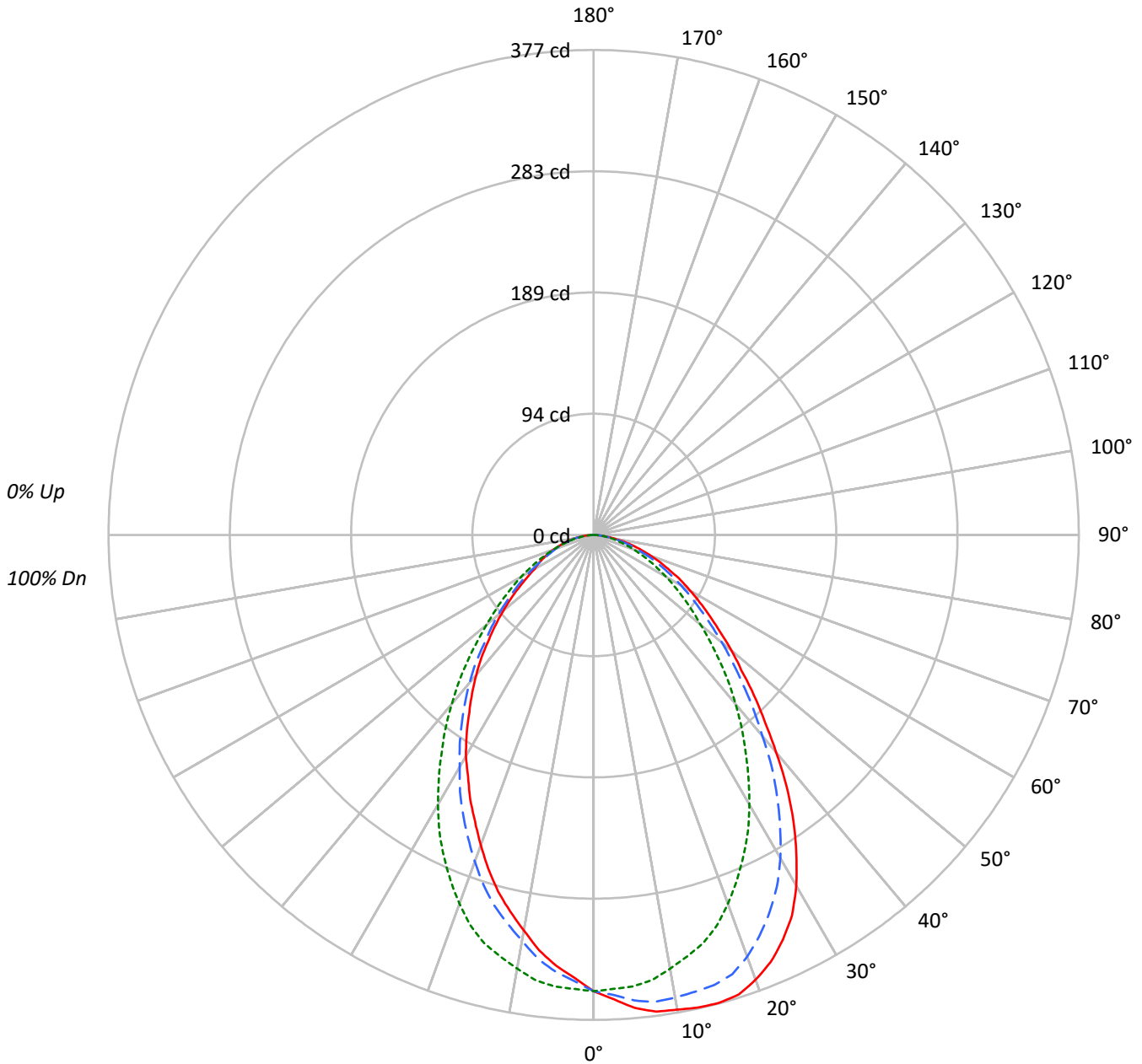
Lumens per Lamp: N/A
Luminaire Lumens: 660.7 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6
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° | 19445 | 19445 | 19445 |
| 5° | 20311 | 19387 | 18495 |
| 10° | 20858 | 19054 | 17379 |
| 15° | 21374 | 18644 | 16283 |
| 20° | 21469 | 17793 | 14958 |
| 25° | 21019 | 16664 | 13719 |
| 30° | 19940 | 15319 | 12565 |
| 35° | 18109 | 13773 | 11277 |
| 40° | 15787 | 12266 | 10148 |
| 45° | 13660 | 10730 | 8916 |
| 50° | 11931 | 9245 | 7812 |
| 55° | 10542 | 8124 | 6709 |
| 60° | 9473 | 7127 | 5811 |
| 65° | 8483 | 6187 | 5630 |
| 70° | 7565 | 5273 | 5273 |
| 75° | 6587 | 4448 | 4956 |
| 80° | 5272 | 3788 | 4546 |
| 85° | 3648 | 3271 | 3900 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 33.3 | 5.0 |
| 10°-20° | 92.7 | 14.0 |
| 20°-30° | 129.1 | 19.5 |
| 30°-40° | 133.1 | 20.1 |
| 40°-50° | 110.3 | 16.7 |
| 50°-60° | 79.3 | 12.0 |
| 60°-70° | 50.5 | 7.6 |
| 70°-80° | 25.9 | 3.9 |
| 80°-90° | 6.6 | 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° | 255.1 | 38.6 |
| 0°-40° | 388.2 | 58.8 |
| 0°-60° | 577.7 | 87.4 |
| 0°-90° | 660.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 660.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 355 | 355 | 355 | 355 | 355 | |
| 5° | 369 | 363 | 352 | 341 | 336 | 35 |
| 15° | 377 | 362 | 328 | 298 | 287 | 106 |
| 25° | 348 | 324 | 276 | 240 | 227 | 159 |
| 35° | 271 | 249 | 206 | 178 | 168 | 168 |
| 45° | 176 | 164 | 138 | 121 | 115 | 136 |
| 55° | 110 | 101 | 85 | 75 | 70 | 99 |
| 65° | 65 | 58 | 48 | 42 | 43 | 65 |
| 75° | 31 | 27 | 21 | 22 | 23 | 33 |
| 85° | 6 | 5 | 5 | 6 | 6 | 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° | 354.7 | 354.7 | 354.7 | 354.7 | 354.7 | 354.7 | 354.7 | 354.7 | 354.7 |
| 2.5° | 361.4 | 359.9 | 358.0 | 356.2 | 353.2 | 350.0 | 347.0 | 346.1 | 344.6 |
| 5° | 369.1 | 367.1 | 363.3 | 358.5 | 352.3 | 346.1 | 340.8 | 337.5 | 336.1 |
| 7.5° | 373.8 | 371.4 | 366.1 | 358.0 | 348.9 | 339.9 | 332.2 | 327.5 | 325.6 |
| 10° | 374.7 | 372.3 | 365.2 | 354.3 | 342.3 | 329.8 | 320.4 | 314.6 | 312.2 |
| 12.5° | 376.2 | 372.8 | 363.7 | 350.9 | 335.6 | 321.3 | 309.4 | 302.2 | 299.8 |
| 15° | 376.6 | 372.8 | 362.3 | 346.6 | 328.5 | 311.2 | 298.3 | 289.7 | 286.9 |
| 17.5° | 374.7 | 370.4 | 358.0 | 338.9 | 318.4 | 300.2 | 285.0 | 275.9 | 272.1 |
| 20° | 368.0 | 363.3 | 348.9 | 327.5 | 305.0 | 286.0 | 270.2 | 260.7 | 256.4 |
| 22.5° | 359.5 | 353.2 | 337.1 | 314.1 | 290.7 | 270.6 | 254.9 | 245.3 | 241.0 |
| 25° | 347.5 | 341.8 | 323.6 | 299.3 | 275.5 | 254.5 | 240.1 | 230.1 | 226.8 |
| 27.5° | 333.7 | 327.0 | 308.4 | 284.1 | 259.7 | 238.7 | 224.9 | 215.8 | 211.4 |
| 30° | 315.0 | 308.8 | 290.3 | 265.9 | 242.0 | 222.5 | 208.1 | 200.5 | 198.5 |
| 32.5° | 293.1 | 287.8 | 269.7 | 246.8 | 223.9 | 205.8 | 193.8 | 185.7 | 183.7 |
| 35° | 270.6 | 264.4 | 248.7 | 227.2 | 205.8 | 189.5 | 178.5 | 171.4 | 168.5 |
| 37.5° | 246.3 | 240.6 | 227.2 | 208.1 | 189.0 | 173.8 | 164.2 | 158.0 | 155.1 |
| 40° | 220.6 | 216.3 | 203.9 | 188.6 | 171.4 | 158.0 | 150.0 | 144.6 | 141.8 |
| 42.5° | 196.7 | 192.3 | 183.7 | 169.5 | 155.1 | 143.2 | 136.1 | 131.3 | 128.9 |
| 45° | 176.2 | 172.3 | 163.7 | 151.3 | 138.4 | 128.4 | 120.8 | 117.4 | 115.0 |
| 47.5° | 155.6 | 153.7 | 146.1 | 134.6 | 122.7 | 114.1 | 108.8 | 105.0 | 103.2 |
| 50° | 139.9 | 137.5 | 130.3 | 118.4 | 108.4 | 101.7 | 97.0 | 93.6 | 91.6 |
| 52.5° | 123.6 | 121.2 | 114.6 | 104.5 | 96.4 | 90.2 | 85.4 | 82.6 | 80.7 |
| 55° | 110.3 | 108.4 | 101.2 | 92.1 | 85.0 | 79.8 | 75.4 | 72.1 | 70.2 |
| 57.5° | 97.9 | 95.9 | 89.3 | 80.7 | 74.5 | 69.7 | 65.9 | 63.1 | 60.7 |
| 60° | 86.4 | 85.0 | 78.3 | 70.2 | 65.0 | 60.1 | 56.8 | 54.5 | 53.0 |
| 62.5° | 76.4 | 73.6 | 67.8 | 60.7 | 55.8 | 52.0 | 48.7 | 47.2 | 48.3 |
| 65° | 65.4 | 64.0 | 58.2 | 52.0 | 47.7 | 44.0 | 41.6 | 42.5 | 43.4 |
| 67.5° | 56.3 | 54.5 | 49.6 | 44.0 | 40.1 | 37.3 | 35.8 | 37.7 | 38.2 |
| 70° | 47.2 | 45.3 | 41.0 | 36.3 | 32.9 | 31.1 | 31.1 | 32.4 | 32.9 |
| 72.5° | 38.6 | 37.3 | 33.4 | 29.6 | 27.2 | 25.8 | 26.8 | 27.7 | 28.1 |
| 75° | 31.1 | 29.6 | 26.8 | 23.4 | 21.0 | 21.0 | 21.9 | 22.9 | 23.4 |
| 77.5° | 23.8 | 22.9 | 20.0 | 17.6 | 16.7 | 16.7 | 17.6 | 18.2 | 18.6 |
| 80° | 16.7 | 15.7 | 14.4 | 12.9 | 12.0 | 12.9 | 13.9 | 13.9 | 14.4 |
| 82.5° | 11.0 | 10.5 | 9.5 | 8.6 | 8.6 | 9.0 | 9.5 | 10.1 | 10.1 |
| 85° | 5.8 | 5.8 | 5.2 | 4.7 | 5.2 | 5.8 | 5.8 | 6.2 | 6.2 |
| 87.5° | 1.9 | 1.9 | 1.9 | 1.9 | 2.4 | 2.4 | 2.4 | 2.4 | 2.4 |
| 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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