

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: P582909

Luminaire Tested: **HCC6W05D010MW-HM60525840-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582909
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W05D010MW-HM60525840-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

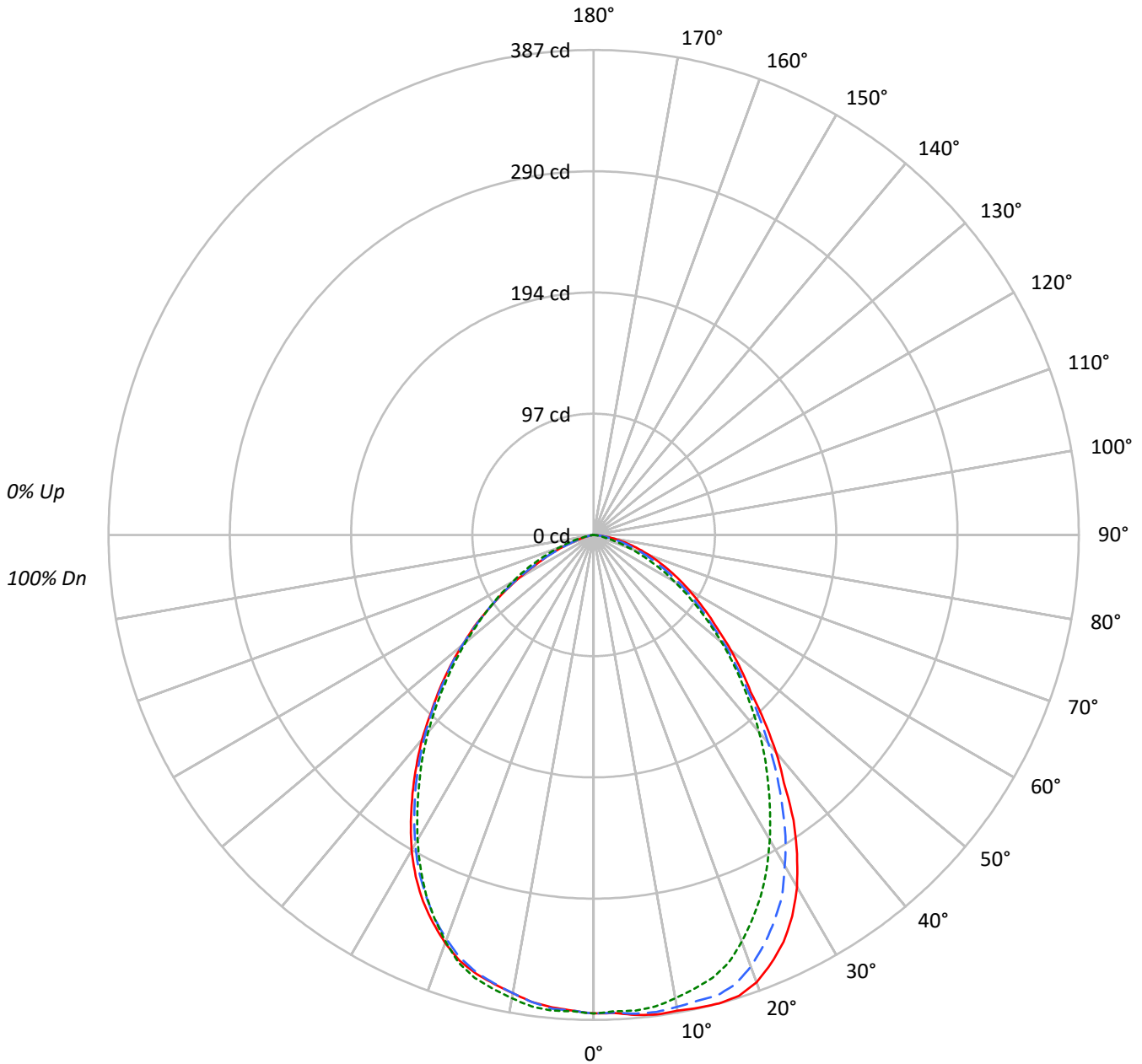
Lumens per Lamp: N/A
Luminaire Lumens: 748.5 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): 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 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 20936 | 20936 | 20936 |
| 5° | 21159 | 20966 | 20823 |
| 10° | 21465 | 20903 | 20674 |
| 15° | 21964 | 20772 | 20573 |
| 20° | 22169 | 20150 | 20214 |
| 25° | 21679 | 19138 | 19501 |
| 30° | 20535 | 17781 | 18383 |
| 35° | 18598 | 16249 | 16858 |
| 40° | 16195 | 14692 | 15229 |
| 45° | 13738 | 13001 | 13467 |
| 50° | 12170 | 11360 | 11658 |
| 55° | 10714 | 9711 | 9663 |
| 60° | 9604 | 8179 | 7521 |
| 65° | 8574 | 6551 | 5396 |
| 70° | 7533 | 4728 | 3366 |
| 75° | 6375 | 2881 | 1906 |
| 80° | 4893 | 1263 | 789 |
| 85° | 2830 | 314 | 314 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 36.3 | 4.8 |
| 10°-20° | 104.2 | 13.9 |
| 20°-30° | 150.6 | 20.1 |
| 30°-40° | 158.5 | 21.2 |
| 40°-50° | 133.2 | 17.8 |
| 50°-60° | 93.5 | 12.5 |
| 60°-70° | 51.4 | 6.9 |
| 70°-80° | 18.3 | 2.4 |
| 80°-90° | 2.4 | 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° | 291.1 | 38.9 |
| 0°-40° | 449.6 | 60.1 |
| 0°-60° | 676.4 | 90.4 |
| 0°-90° | 748.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 748.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 382 | 382 | 382 | 382 | 382 | |
| 5° | 384 | 384 | 381 | 380 | 378 | 37 |
| 15° | 387 | 380 | 366 | 362 | 362 | 109 |
| 25° | 358 | 340 | 316 | 317 | 322 | 164 |
| 35° | 278 | 262 | 243 | 248 | 252 | 172 |
| 45° | 177 | 172 | 168 | 172 | 174 | 139 |
| 55° | 112 | 106 | 102 | 102 | 101 | 101 |
| 65° | 66 | 59 | 50 | 42 | 42 | 66 |
| 75° | 30 | 24 | 14 | 9 | 9 | 32 |
| 85° | 4 | 2 | 0 | 0 | 0 | 6 |
| 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° | 381.9 | 381.9 | 381.9 | 381.9 | 381.9 | 381.9 | 381.9 | 381.9 | 381.9 |
| 2.5° | 381.9 | 381.9 | 381.5 | 381.5 | 380.5 | 380.5 | 380.0 | 380.0 | 380.0 |
| 5° | 384.5 | 384.5 | 383.5 | 381.9 | 381.0 | 379.5 | 379.5 | 379.0 | 378.4 |
| 7.5° | 386.0 | 385.6 | 384.0 | 381.9 | 379.5 | 377.0 | 376.0 | 376.5 | 376.0 |
| 10° | 385.6 | 384.5 | 382.5 | 378.4 | 375.5 | 372.0 | 371.4 | 371.0 | 371.4 |
| 12.5° | 386.5 | 385.0 | 381.0 | 376.0 | 371.0 | 367.0 | 366.5 | 366.5 | 367.0 |
| 15° | 387.0 | 385.6 | 380.5 | 373.0 | 366.0 | 361.9 | 361.5 | 361.9 | 362.5 |
| 17.5° | 385.6 | 383.5 | 376.0 | 366.0 | 358.0 | 353.9 | 353.9 | 354.9 | 356.0 |
| 20° | 380.0 | 377.0 | 366.5 | 354.5 | 345.4 | 342.4 | 343.4 | 345.4 | 346.5 |
| 22.5° | 370.0 | 366.5 | 354.5 | 340.9 | 331.4 | 328.9 | 331.4 | 333.9 | 334.9 |
| 25° | 358.4 | 354.5 | 340.5 | 326.5 | 316.4 | 313.5 | 317.0 | 320.9 | 322.4 |
| 27.5° | 343.0 | 338.4 | 325.4 | 309.4 | 299.3 | 297.9 | 301.9 | 306.3 | 307.4 |
| 30° | 324.4 | 319.5 | 304.9 | 289.8 | 280.9 | 280.4 | 284.9 | 288.8 | 290.4 |
| 32.5° | 301.9 | 297.4 | 284.9 | 269.8 | 261.8 | 261.8 | 266.3 | 269.8 | 271.3 |
| 35° | 277.9 | 272.9 | 261.8 | 249.3 | 242.8 | 243.3 | 247.8 | 250.3 | 251.9 |
| 37.5° | 249.3 | 247.8 | 239.3 | 228.8 | 224.3 | 225.3 | 228.8 | 230.7 | 232.3 |
| 40° | 226.3 | 222.3 | 216.7 | 208.3 | 205.3 | 206.2 | 209.7 | 211.8 | 212.8 |
| 42.5° | 201.3 | 198.8 | 194.2 | 188.3 | 186.2 | 187.7 | 190.7 | 192.2 | 191.8 |
| 45° | 177.2 | 176.7 | 172.2 | 168.7 | 167.7 | 169.7 | 171.8 | 173.2 | 173.7 |
| 47.5° | 159.7 | 157.7 | 153.7 | 151.2 | 150.2 | 152.2 | 154.2 | 155.1 | 155.1 |
| 50° | 142.7 | 140.7 | 136.7 | 134.1 | 133.2 | 135.1 | 136.7 | 137.6 | 136.7 |
| 52.5° | 125.7 | 123.6 | 120.1 | 117.2 | 116.6 | 117.6 | 118.2 | 118.6 | 119.7 |
| 55° | 112.1 | 110.2 | 106.1 | 102.6 | 101.6 | 102.2 | 101.6 | 101.6 | 101.1 |
| 57.5° | 99.1 | 97.2 | 93.1 | 89.2 | 87.6 | 87.1 | 85.7 | 85.1 | 84.6 |
| 60° | 87.6 | 85.1 | 81.1 | 76.6 | 74.6 | 72.5 | 70.1 | 68.6 | 68.6 |
| 62.5° | 76.6 | 74.1 | 69.6 | 65.5 | 62.6 | 59.1 | 55.0 | 53.1 | 53.1 |
| 65° | 66.1 | 64.1 | 59.1 | 54.6 | 50.5 | 46.1 | 41.6 | 40.6 | 41.6 |
| 67.5° | 56.0 | 54.0 | 49.0 | 44.5 | 39.6 | 34.0 | 30.1 | 30.1 | 31.1 |
| 70° | 47.0 | 45.1 | 40.6 | 35.0 | 29.5 | 24.1 | 21.0 | 21.0 | 21.0 |
| 72.5° | 38.5 | 36.5 | 31.5 | 26.6 | 21.0 | 15.5 | 14.0 | 14.5 | 14.0 |
| 75° | 30.1 | 28.6 | 24.1 | 18.5 | 13.6 | 9.5 | 9.0 | 8.5 | 9.0 |
| 77.5° | 22.5 | 21.0 | 17.1 | 12.0 | 7.5 | 5.5 | 5.0 | 5.0 | 5.0 |
| 80° | 15.5 | 14.0 | 11.0 | 7.0 | 4.0 | 2.5 | 2.5 | 2.5 | 2.5 |
| 82.5° | 9.5 | 8.0 | 6.0 | 3.5 | 1.5 | 1.5 | 1.5 | 1.5 | 1.5 |
| 85° | 4.5 | 3.5 | 2.5 | 1.0 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 1.0 | 1.0 | 0.5 | 0.5 | 0.0 | 0.5 | 0.5 | 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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Scaled Data Report



— 0°-180° - - 45°-225° - - - - 90°-270°

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