

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: P583421

Luminaire Tested: **HC607D010-HM60525940-61WWWB**

Issue Date: 9/16/2021

**Test Information**

Test Method: LM-41-14  
Report Number: P583421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-18)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 9/16/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO COMMERCIAL  
Catalog Number: HC607D010-HM60525940-61WWWB  
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 827.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

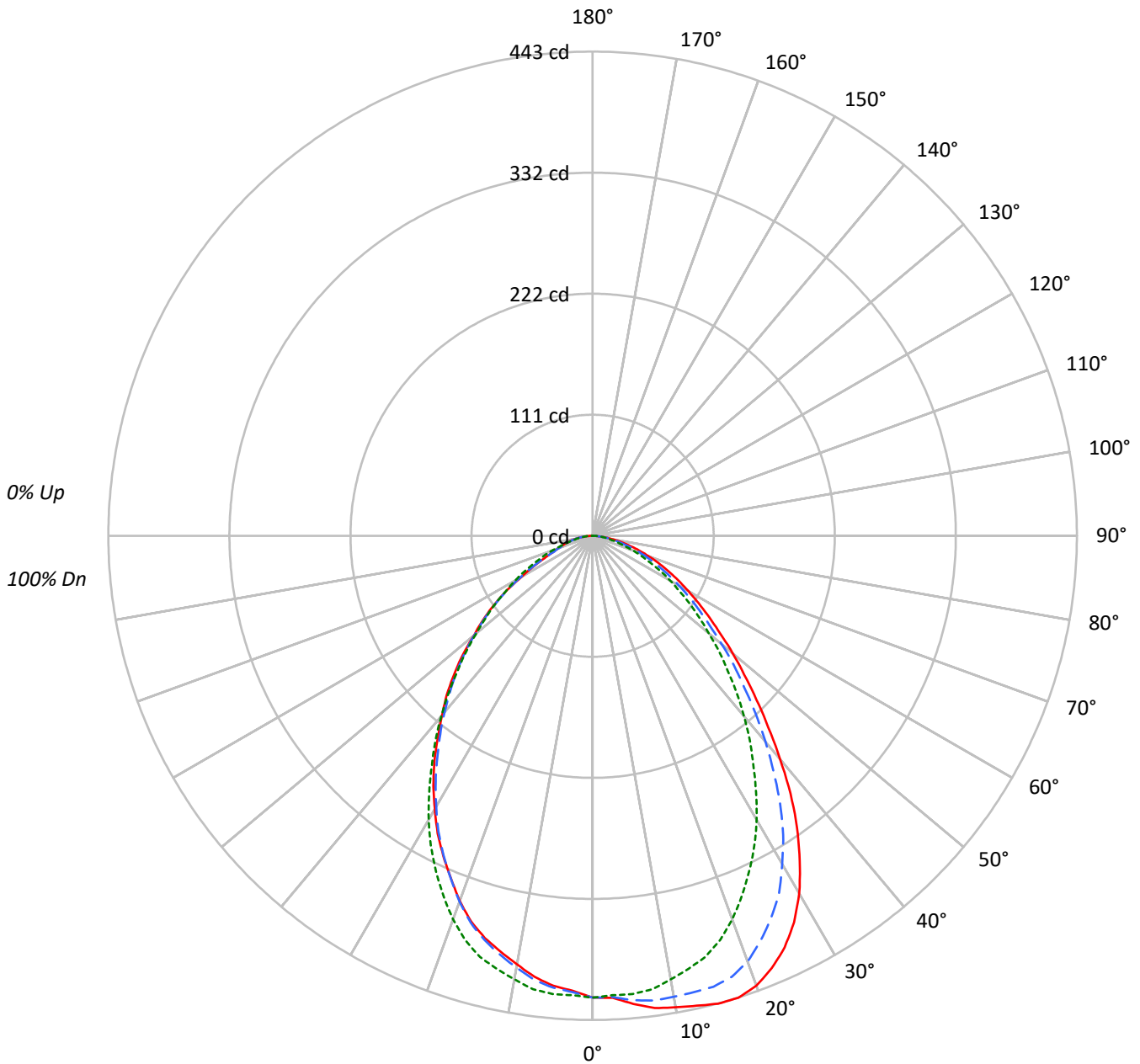
Input Watts (W): 8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |    |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF  | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |     |     | 20  |     |    |    | 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 |    |    |    | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 104 | 101 | 98  | 100 | 97  | 95  | 96  | 94  | 92  | 93  | 91  | 89  | 87  |    |    |    | 87  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 81  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |    |    |    | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 84  | 77  | 72  | 81  | 75  | 71  | 78  | 73  | 69  | 76  | 72  | 68  | 66  |    |    |    | 66  |
| 4   | 87  | 77  | 69  | 63  | 85  | 75  | 68  | 63  | 73  | 67  | 62  | 71  | 65  | 61  | 69  | 64  | 60  | 58  |    |    |    | 58  |
| 5   | 81  | 70  | 61  | 56  | 79  | 68  | 61  | 55  | 66  | 60  | 55  | 65  | 59  | 54  | 63  | 58  | 54  | 52  |    |    |    | 52  |
| 6   | 75  | 63  | 55  | 49  | 74  | 62  | 55  | 49  | 61  | 54  | 49  | 59  | 53  | 48  | 58  | 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  | 38  | 34  | 57  | 45  | 38  | 33  | 44  | 38  | 33  | 43  | 37  | 33  | 43  | 37  | 33  | 31  |    |    |    | 31  |

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°    | 90°   | 180°  |
|-----|-------|-------|-------|
| 0°  | 23162 | 23162 | 23162 |
| 5°  | 23663 | 23156 | 22744 |
| 10° | 24387 | 22940 | 22166 |
| 15° | 25153 | 22634 | 21618 |
| 20° | 25558 | 21784 | 20739 |
| 25° | 25139 | 20493 | 19550 |
| 30° | 23934 | 18997 | 18269 |
| 35° | 21824 | 17152 | 16878 |
| 40° | 19086 | 15407 | 15322 |
| 45° | 16428 | 13560 | 13870 |
| 50° | 14268 | 11821 | 12059 |
| 55° | 12463 | 10370 | 10485 |
| 60° | 11085 | 8980  | 8223  |
| 65° | 9871  | 7562  | 6291  |
| 70° | 8703  | 6187  | 5273  |
| 75° | 7456  | 4893  | 5020  |
| 80° | 5998  | 4199  | 4925  |
| 85° | 3963  | 3648  | 4340  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 40.0   | 4.8       |
| 10°-20°   | 113.9  | 13.8      |
| 20°-30°   | 162.6  | 19.6      |
| 30°-40°   | 170.3  | 20.6      |
| 40°-50°   | 143.4  | 17.3      |
| 50°-60°   | 102.0  | 12.3      |
| 60°-70°   | 59.7   | 7.2       |
| 70°-80°   | 28.3   | 3.4       |
| 80°-90°   | 7.3    | 0.9       |
| 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°    | 316.4  | 38.2      |
| 0°-40°    | 486.7  | 58.8      |
| 0°-60°    | 732.1  | 88.5      |
| 0°-90°    | 827.4  | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 827.4  | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0°  | 422 | 422 | 422 | 422  | 422  |      |
| 5°  | 430 | 427 | 421 | 415  | 413  | 41   |
| 15° | 443 | 427 | 399 | 383  | 381  | 125  |
| 25° | 416 | 386 | 339 | 323  | 323  | 190  |
| 35° | 326 | 299 | 256 | 248  | 252  | 203  |
| 45° | 212 | 196 | 175 | 176  | 179  | 164  |
| 55° | 130 | 120 | 108 | 108  | 110  | 118  |
| 65° | 76  | 68  | 58  | 49   | 48   | 76   |
| 75° | 35  | 30  | 23  | 22   | 24   | 38   |
| 85° | 6   | 5   | 6   | 7    | 7    | 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°    | 422.5 | 422.5 | 422.5 | 422.5 | 422.5 | 422.5  | 422.5 | 422.5  | 422.5 |
| 2.5°  | 423.1 | 423.1 | 422.5 | 421.9 | 420.8 | 419.1  | 417.9 | 416.7  | 416.7 |
| 5°    | 430.0 | 428.8 | 426.6 | 423.6 | 420.8 | 417.3  | 415.0 | 413.3  | 413.3 |
| 7.5°  | 435.8 | 433.5 | 428.8 | 423.6 | 418.4 | 413.9  | 409.8 | 407.5  | 407.0 |
| 10°   | 438.1 | 435.2 | 428.3 | 420.2 | 412.1 | 405.7  | 401.2 | 398.2  | 398.2 |
| 12.5° | 440.4 | 436.9 | 427.7 | 416.2 | 405.7 | 397.1  | 392.5 | 390.2  | 389.6 |
| 15°   | 443.2 | 438.7 | 427.1 | 412.6 | 398.8 | 389.1  | 382.7 | 380.9  | 380.9 |
| 17.5° | 443.2 | 437.6 | 423.1 | 405.2 | 387.8 | 376.9  | 371.2 | 369.4  | 369.9 |
| 20°   | 438.1 | 431.8 | 414.5 | 392.5 | 373.4 | 361.9  | 356.1 | 355.0  | 355.5 |
| 22.5° | 428.3 | 420.8 | 401.2 | 377.5 | 356.7 | 344.5  | 339.3 | 339.3  | 338.8 |
| 25°   | 415.6 | 407.5 | 386.1 | 361.3 | 338.8 | 326.6  | 322.7 | 323.2  | 323.2 |
| 27.5° | 398.8 | 390.8 | 369.4 | 342.8 | 320.3 | 308.2  | 305.3 | 306.5  | 307.0 |
| 30°   | 378.1 | 369.4 | 346.9 | 320.9 | 300.1 | 288.0  | 286.3 | 288.0  | 288.6 |
| 32.5° | 352.7 | 346.4 | 324.4 | 297.9 | 278.2 | 267.8  | 267.3 | 269.0  | 271.2 |
| 35°   | 326.1 | 319.2 | 299.0 | 274.8 | 256.3 | 247.6  | 247.6 | 250.5  | 252.2 |
| 37.5° | 297.3 | 290.3 | 271.8 | 251.6 | 236.1 | 228.0  | 229.1 | 232.0  | 232.6 |
| 40°   | 266.7 | 261.5 | 245.9 | 228.5 | 215.3 | 208.9  | 210.6 | 213.6  | 214.1 |
| 42.5° | 237.8 | 233.2 | 220.5 | 204.8 | 195.1 | 190.5  | 192.8 | 196.2  | 197.4 |
| 45°   | 211.9 | 206.7 | 196.2 | 183.0 | 174.9 | 172.6  | 175.5 | 177.8  | 178.9 |
| 47.5° | 188.2 | 183.5 | 174.9 | 162.8 | 157.0 | 155.8  | 158.7 | 159.9  | 161.0 |
| 50°   | 167.3 | 162.8 | 154.1 | 143.1 | 138.6 | 138.6  | 140.8 | 142.0  | 141.4 |
| 52.5° | 147.2 | 143.1 | 135.1 | 125.9 | 122.9 | 122.9  | 124.6 | 125.2  | 126.4 |
| 55°   | 130.4 | 126.4 | 119.5 | 110.8 | 108.5 | 107.4  | 108.5 | 108.5  | 109.7 |
| 57.5° | 114.9 | 111.4 | 105.0 | 97.0  | 94.0  | 92.9   | 92.3  | 91.8   | 92.9  |
| 60°   | 101.1 | 98.1  | 91.2  | 84.3  | 81.9  | 79.1   | 76.8  | 74.4   | 75.0  |
| 62.5° | 88.3  | 85.4  | 79.1  | 72.2  | 69.8  | 65.8   | 62.9  | 60.0   | 61.2  |
| 65°   | 76.1  | 73.3  | 67.5  | 61.7  | 58.3  | 53.7   | 49.1  | 47.4   | 48.5  |
| 67.5° | 65.3  | 62.9  | 57.1  | 51.3  | 48.5  | 43.3   | 38.6  | 38.6   | 39.2  |
| 70°   | 54.3  | 51.9  | 47.4  | 42.1  | 38.6  | 34.1   | 32.3  | 32.9   | 32.9  |
| 72.5° | 44.4  | 42.7  | 38.1  | 33.4  | 30.0  | 27.1   | 27.1  | 27.8   | 28.3  |
| 75°   | 35.2  | 34.1  | 29.5  | 25.4  | 23.1  | 21.3   | 22.5  | 23.1   | 23.7  |
| 77.5° | 27.1  | 25.4  | 22.0  | 19.0  | 17.3  | 17.9   | 19.0  | 19.6   | 20.2  |
| 80°   | 19.0  | 18.5  | 15.6  | 13.8  | 13.3  | 13.8   | 15.0  | 15.6   | 15.6  |
| 82.5° | 12.1  | 11.6  | 9.9   | 9.3   | 9.3   | 9.9    | 11.0  | 11.0   | 11.0  |
| 85°   | 6.3   | 5.8   | 5.2   | 5.2   | 5.8   | 6.3    | 6.9   | 6.9    | 6.9   |
| 87.5° | 2.3   | 1.7   | 2.3   | 2.3   | 2.8   | 2.8    | 2.8   | 2.8    | 2.8   |
| 90°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |



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







(END OF REPORT)