

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: P582861

Luminaire Tested: **HCC6S05D010MW-HM60525827-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582861
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: HCC6S05D010MW-HM60525827-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

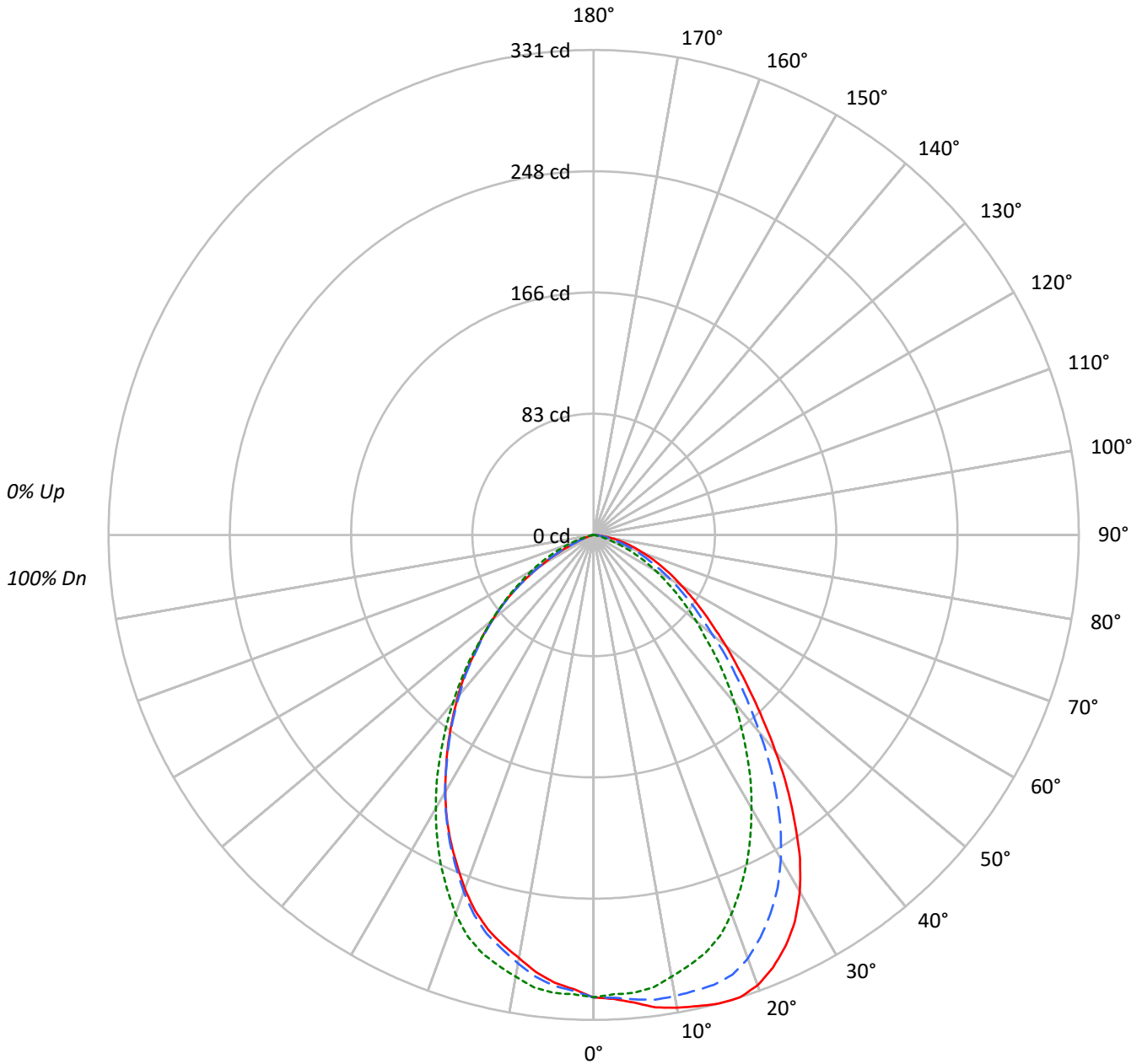
Lumens per Lamp: N/A
Luminaire Lumens: 562.4 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | 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° | 17301 | 17301 | 17301 |
| 5° | 17637 | 17268 | 16878 |
| 10° | 18236 | 17045 | 16327 |
| 15° | 18791 | 16754 | 15823 |
| 20° | 19082 | 16055 | 14993 |
| 25° | 18739 | 14952 | 13967 |
| 30° | 17813 | 13629 | 12812 |
| 35° | 16008 | 12180 | 11558 |
| 40° | 13819 | 10677 | 10326 |
| 45° | 11707 | 9187 | 8947 |
| 50° | 10030 | 7761 | 7684 |
| 55° | 8697 | 6537 | 6279 |
| 60° | 7598 | 5307 | 4473 |
| 65° | 6680 | 4086 | 2478 |
| 70° | 5754 | 2693 | 1218 |
| 75° | 4893 | 1313 | 487 |
| 80° | 3788 | 568 | 284 |
| 85° | 2201 | 314 | 314 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.8 | 5.3 |
| 10°-20° | 84.2 | 15.0 |
| 20°-30° | 118.6 | 21.1 |
| 30°-40° | 121.2 | 21.5 |
| 40°-50° | 97.7 | 17.4 |
| 50°-60° | 65.5 | 11.6 |
| 60°-70° | 33.2 | 5.9 |
| 70°-80° | 10.6 | 1.9 |
| 80°-90° | 1.7 | 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° | 232.6 | 41.4 |
| 0°-40° | 353.8 | 62.9 |
| 0°-60° | 517.0 | 91.9 |
| 0°-90° | 562.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 562.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 316 | 316 | 316 | 316 | 316 | |
| 5° | 320 | 318 | 314 | 309 | 307 | 31 |
| 15° | 331 | 318 | 295 | 282 | 279 | 93 |
| 25° | 310 | 285 | 247 | 232 | 231 | 142 |
| 35° | 239 | 218 | 182 | 172 | 173 | 149 |
| 45° | 151 | 139 | 118 | 114 | 115 | 117 |
| 55° | 91 | 81 | 68 | 65 | 66 | 82 |
| 65° | 52 | 43 | 32 | 21 | 19 | 51 |
| 75° | 23 | 16 | 6 | 2 | 2 | 25 |
| 85° | 4 | 2 | 0 | 0 | 0 | 5 |
| 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° | 315.6 | 315.6 | 315.6 | 315.6 | 315.6 | 315.6 | 315.6 | 315.6 | 315.6 |
| 2.5° | 317.0 | 316.5 | 316.1 | 315.2 | 313.8 | 312.4 | 311.5 | 310.7 | 310.3 |
| 5° | 320.5 | 319.6 | 318.2 | 316.5 | 313.8 | 310.7 | 308.9 | 307.1 | 306.7 |
| 7.5° | 325.3 | 323.6 | 320.0 | 316.1 | 311.5 | 307.1 | 304.1 | 302.3 | 300.9 |
| 10° | 327.6 | 324.4 | 319.6 | 312.9 | 306.2 | 300.9 | 297.0 | 294.3 | 293.3 |
| 12.5° | 329.4 | 325.8 | 318.7 | 309.8 | 300.9 | 293.8 | 289.4 | 287.1 | 286.3 |
| 15° | 331.1 | 327.6 | 317.8 | 306.2 | 295.2 | 286.8 | 281.8 | 279.7 | 278.8 |
| 17.5° | 331.1 | 326.2 | 314.7 | 300.0 | 286.8 | 276.5 | 271.7 | 269.4 | 268.9 |
| 20° | 327.1 | 321.8 | 307.6 | 290.3 | 275.2 | 263.6 | 259.2 | 257.9 | 257.0 |
| 22.5° | 319.6 | 313.3 | 297.4 | 277.9 | 261.5 | 250.3 | 245.4 | 244.5 | 243.7 |
| 25° | 309.8 | 303.6 | 285.4 | 264.5 | 247.2 | 236.2 | 232.1 | 231.3 | 230.9 |
| 27.5° | 297.4 | 290.7 | 271.7 | 250.3 | 231.6 | 221.0 | 217.5 | 217.5 | 217.1 |
| 30° | 281.4 | 273.9 | 255.3 | 233.9 | 215.3 | 205.5 | 202.8 | 202.8 | 202.4 |
| 32.5° | 261.9 | 254.4 | 237.5 | 217.1 | 199.3 | 189.0 | 186.9 | 187.8 | 187.4 |
| 35° | 239.2 | 233.0 | 217.5 | 197.5 | 182.0 | 172.7 | 171.8 | 172.7 | 172.7 |
| 37.5° | 216.6 | 210.9 | 197.5 | 180.2 | 165.5 | 157.2 | 157.2 | 158.4 | 158.0 |
| 40° | 193.1 | 188.6 | 176.2 | 161.1 | 149.2 | 143.4 | 142.5 | 143.8 | 144.3 |
| 42.5° | 170.9 | 167.4 | 156.7 | 144.3 | 133.6 | 127.8 | 129.2 | 130.1 | 130.5 |
| 45° | 151.0 | 147.4 | 138.9 | 126.1 | 118.5 | 114.5 | 114.5 | 115.8 | 115.4 |
| 47.5° | 133.1 | 130.5 | 122.0 | 109.6 | 102.9 | 101.2 | 102.0 | 102.9 | 102.9 |
| 50° | 117.6 | 113.7 | 105.7 | 95.8 | 91.0 | 88.8 | 89.6 | 90.1 | 90.1 |
| 52.5° | 102.9 | 100.3 | 92.3 | 83.4 | 79.0 | 77.6 | 77.6 | 78.1 | 78.1 |
| 55° | 91.0 | 87.9 | 80.8 | 71.9 | 68.4 | 66.6 | 65.2 | 64.7 | 65.7 |
| 57.5° | 79.4 | 76.8 | 70.2 | 61.7 | 57.7 | 55.9 | 53.2 | 52.4 | 53.2 |
| 60° | 69.3 | 67.0 | 60.3 | 52.4 | 48.4 | 44.9 | 41.7 | 40.0 | 40.8 |
| 62.5° | 60.3 | 57.7 | 51.1 | 44.4 | 40.0 | 35.9 | 31.1 | 28.4 | 29.7 |
| 65° | 51.5 | 49.3 | 42.6 | 35.9 | 31.5 | 26.7 | 20.9 | 19.1 | 19.1 |
| 67.5° | 43.5 | 41.2 | 35.0 | 29.3 | 24.0 | 18.2 | 12.9 | 12.4 | 12.9 |
| 70° | 35.9 | 33.8 | 28.4 | 22.6 | 16.8 | 11.1 | 7.6 | 7.6 | 7.6 |
| 72.5° | 29.7 | 27.1 | 22.1 | 16.4 | 10.6 | 5.8 | 4.0 | 4.4 | 4.4 |
| 75° | 23.1 | 20.9 | 16.4 | 11.1 | 6.2 | 2.7 | 2.3 | 2.3 | 2.3 |
| 77.5° | 17.3 | 15.5 | 11.5 | 7.1 | 3.1 | 0.9 | 0.9 | 0.9 | 0.9 |
| 80° | 12.0 | 10.2 | 7.6 | 4.4 | 1.8 | 0.9 | 0.9 | 0.9 | 0.9 |
| 82.5° | 7.1 | 6.2 | 4.4 | 2.3 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 3.5 | 3.1 | 1.8 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| 87.5° | 0.9 | 0.9 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°

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