

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: P582969

Luminaire Tested: **HCC6S05D010MB-HM60525935-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582969
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: HCC6S05D010MB-HM60525935-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

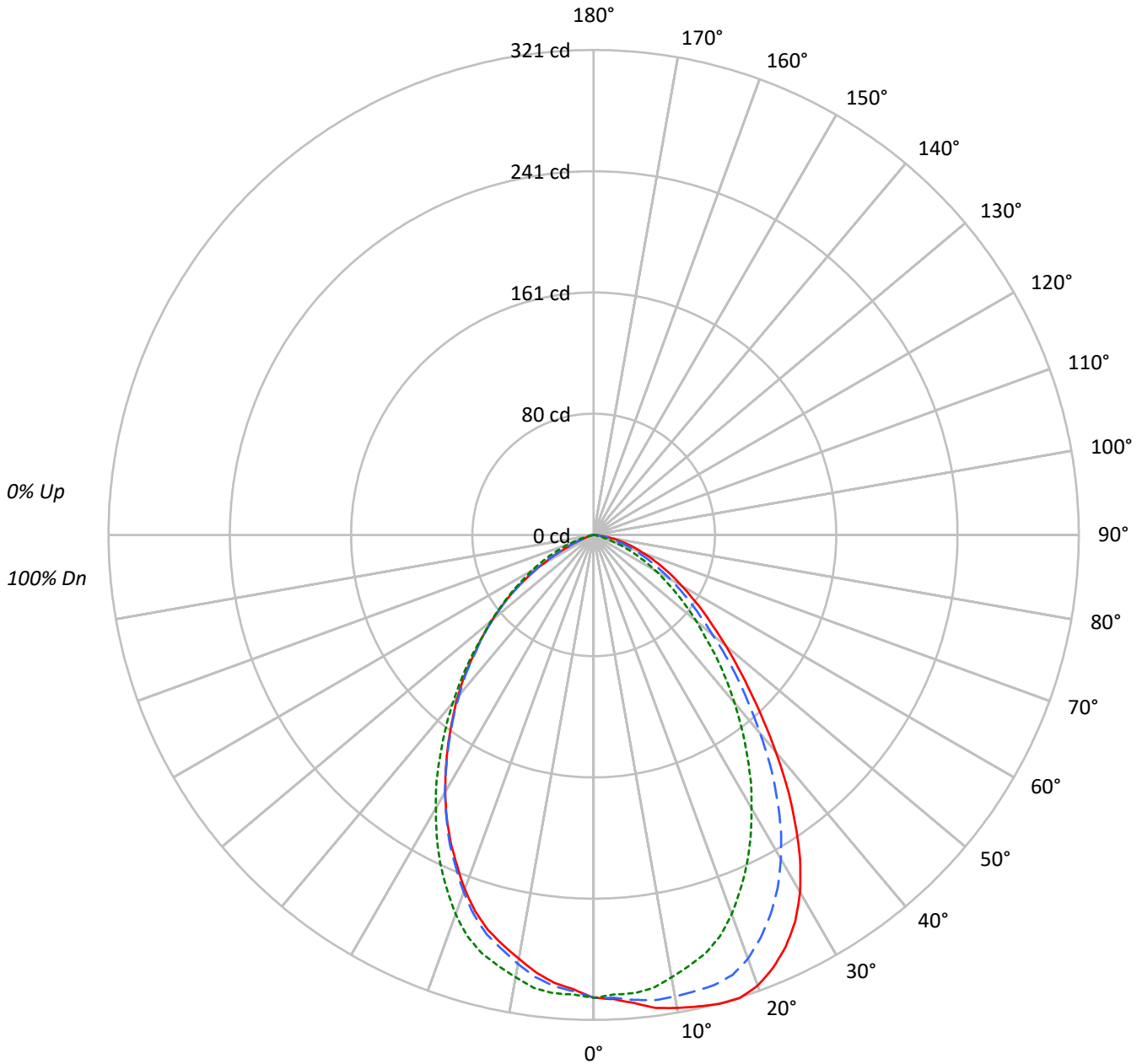
Lumens per Lamp: N/A
Luminaire Lumens: 545.9 lumens
Efficiency: N/A
Efficacy: 91.0 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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 | 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 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 97 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | | | 89 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | | 78 | | | |
| 3 | 96 | 87 | 80 | 75 | 93 | 86 | 79 | 74 | 83 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 69 | | | | | 69 | | | |
| 4 | 89 | 79 | 71 | 66 | 87 | 78 | 71 | 65 | 75 | 69 | 64 | 73 | 68 | 64 | 71 | 66 | 63 | 61 | | | | | 61 | | | |
| 5 | 83 | 72 | 64 | 58 | 81 | 71 | 63 | 58 | 69 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 56 | 54 | | | | | 54 | | | |
| 6 | 77 | 65 | 58 | 52 | 75 | 65 | 57 | 52 | 63 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 49 | | | | | 49 | | | |
| 7 | 72 | 60 | 52 | 47 | 70 | 59 | 52 | 47 | 58 | 51 | 46 | 56 | 51 | 46 | 55 | 50 | 46 | 44 | | | | | 44 | | | |
| 8 | 67 | 55 | 48 | 43 | 66 | 55 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | | | 40 | | | |
| 9 | 63 | 51 | 44 | 39 | 62 | 51 | 44 | 39 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 37 | | | | | 37 | | | |
| 10 | 60 | 48 | 40 | 36 | 58 | 47 | 40 | 36 | 46 | 40 | 36 | 45 | 40 | 35 | 45 | 39 | 35 | 34 | | | | | 34 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 16791 | 16791 | 16791 |
| 5° | 17120 | 16757 | 16377 |
| 10° | 17702 | 16549 | 15854 |
| 15° | 18241 | 16260 | 15352 |
| 20° | 18522 | 15582 | 14550 |
| 25° | 18189 | 14517 | 13549 |
| 30° | 17287 | 13224 | 12432 |
| 35° | 15540 | 11819 | 11216 |
| 40° | 13411 | 10362 | 10019 |
| 45° | 11350 | 8916 | 8683 |
| 50° | 9731 | 7539 | 7462 |
| 55° | 8449 | 6337 | 6088 |
| 60° | 7368 | 5153 | 4353 |
| 65° | 6473 | 3969 | 2400 |
| 70° | 5594 | 2629 | 1170 |
| 75° | 4745 | 1271 | 445 |
| 80° | 3662 | 537 | 284 |
| 85° | 2139 | 314 | 314 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.9 | 5.3 |
| 10°-20° | 81.7 | 15.0 |
| 20°-30° | 115.1 | 21.1 |
| 30°-40° | 117.6 | 21.5 |
| 40°-50° | 94.8 | 17.4 |
| 50°-60° | 63.6 | 11.6 |
| 60°-70° | 32.2 | 5.9 |
| 70°-80° | 10.3 | 1.9 |
| 80°-90° | 1.6 | 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° | 225.7 | 41.4 |
| 0°-40° | 343.4 | 62.9 |
| 0°-60° | 501.8 | 91.9 |
| 0°-90° | 545.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 545.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 306 | 306 | 306 | 306 | 306 | |
| 5° | 311 | 309 | 304 | 300 | 298 | 30 |
| 15° | 321 | 308 | 286 | 274 | 270 | 91 |
| 25° | 301 | 277 | 240 | 225 | 224 | 138 |
| 35° | 232 | 211 | 177 | 167 | 168 | 144 |
| 45° | 146 | 135 | 115 | 111 | 112 | 114 |
| 55° | 88 | 78 | 66 | 63 | 64 | 79 |
| 65° | 50 | 41 | 31 | 20 | 18 | 50 |
| 75° | 22 | 16 | 6 | 2 | 2 | 24 |
| 85° | 3 | 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° | 306.3 | 306.3 | 306.3 | 306.3 | 306.3 | 306.3 | 306.3 | 306.3 | 306.3 |
| 2.5° | 307.6 | 307.1 | 306.7 | 305.9 | 304.5 | 303.3 | 302.4 | 301.6 | 301.1 |
| 5° | 311.1 | 310.2 | 308.9 | 307.1 | 304.5 | 301.6 | 299.8 | 298.1 | 297.6 |
| 7.5° | 315.8 | 314.0 | 310.6 | 306.7 | 302.4 | 298.1 | 295.2 | 293.3 | 292.1 |
| 10° | 318.0 | 314.9 | 310.2 | 303.7 | 297.3 | 292.1 | 288.3 | 285.7 | 284.8 |
| 12.5° | 319.7 | 316.2 | 309.3 | 300.7 | 292.1 | 285.2 | 280.9 | 278.8 | 277.9 |
| 15° | 321.4 | 318.0 | 308.5 | 297.3 | 286.5 | 278.3 | 273.6 | 271.4 | 270.5 |
| 17.5° | 321.4 | 316.6 | 305.4 | 291.2 | 278.3 | 268.4 | 263.6 | 261.5 | 261.0 |
| 20° | 317.5 | 312.3 | 298.5 | 281.7 | 267.1 | 255.9 | 251.5 | 250.3 | 249.4 |
| 22.5° | 310.2 | 304.2 | 288.6 | 269.7 | 253.8 | 243.0 | 238.2 | 237.4 | 236.5 |
| 25° | 300.7 | 294.7 | 277.0 | 256.7 | 240.0 | 229.2 | 225.3 | 224.4 | 224.0 |
| 27.5° | 288.6 | 282.2 | 263.6 | 243.0 | 224.9 | 214.6 | 211.1 | 211.1 | 210.6 |
| 30° | 273.1 | 265.8 | 247.7 | 227.0 | 208.9 | 199.4 | 196.8 | 196.8 | 196.4 |
| 32.5° | 254.1 | 246.9 | 230.5 | 210.6 | 193.5 | 183.5 | 181.4 | 182.3 | 181.8 |
| 35° | 232.2 | 226.2 | 211.1 | 191.8 | 176.6 | 167.6 | 166.7 | 167.6 | 167.6 |
| 37.5° | 210.2 | 204.6 | 191.8 | 174.9 | 160.7 | 152.5 | 152.5 | 153.8 | 153.3 |
| 40° | 187.4 | 183.1 | 171.1 | 156.4 | 144.8 | 139.1 | 138.3 | 139.6 | 140.0 |
| 42.5° | 165.9 | 162.4 | 152.1 | 140.0 | 129.7 | 124.1 | 125.3 | 126.2 | 126.7 |
| 45° | 146.4 | 143.1 | 134.8 | 122.4 | 115.0 | 111.2 | 111.2 | 112.4 | 112.0 |
| 47.5° | 129.3 | 126.7 | 118.4 | 106.4 | 99.9 | 98.2 | 99.1 | 99.9 | 99.9 |
| 50° | 114.1 | 110.3 | 102.5 | 93.0 | 88.4 | 86.1 | 87.0 | 87.5 | 87.5 |
| 52.5° | 99.9 | 97.4 | 89.6 | 81.0 | 76.7 | 75.4 | 75.4 | 75.8 | 75.8 |
| 55° | 88.4 | 85.3 | 78.4 | 69.8 | 66.3 | 64.6 | 63.3 | 62.9 | 63.7 |
| 57.5° | 77.1 | 74.6 | 68.0 | 59.9 | 56.0 | 54.2 | 51.6 | 50.8 | 51.6 |
| 60° | 67.2 | 65.1 | 58.5 | 50.8 | 47.0 | 43.5 | 40.5 | 38.8 | 39.7 |
| 62.5° | 58.5 | 56.0 | 49.5 | 43.1 | 38.8 | 34.9 | 30.2 | 27.6 | 28.8 |
| 65° | 49.9 | 47.8 | 41.4 | 34.9 | 30.6 | 25.9 | 20.2 | 18.5 | 18.5 |
| 67.5° | 42.3 | 40.1 | 34.0 | 28.5 | 23.3 | 17.6 | 12.5 | 12.1 | 12.5 |
| 70° | 34.9 | 32.8 | 27.6 | 21.9 | 16.4 | 10.7 | 7.3 | 7.3 | 7.3 |
| 72.5° | 28.8 | 26.3 | 21.6 | 15.9 | 10.3 | 5.6 | 3.8 | 4.3 | 4.3 |
| 75° | 22.4 | 20.2 | 15.9 | 10.7 | 6.0 | 2.6 | 2.1 | 2.1 | 2.1 |
| 77.5° | 16.8 | 15.0 | 11.2 | 6.9 | 3.1 | 0.9 | 0.9 | 0.9 | 0.9 |
| 80° | 11.6 | 9.9 | 7.3 | 4.3 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 82.5° | 6.9 | 6.0 | 4.3 | 2.1 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 3.4 | 3.1 | 1.7 | 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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