

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: P582953

Luminaire Tested: **HCC6W05D010MW-HM60525930-61WWWB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582953
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: HCC6W05D010MW-HM60525930-61WWWB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

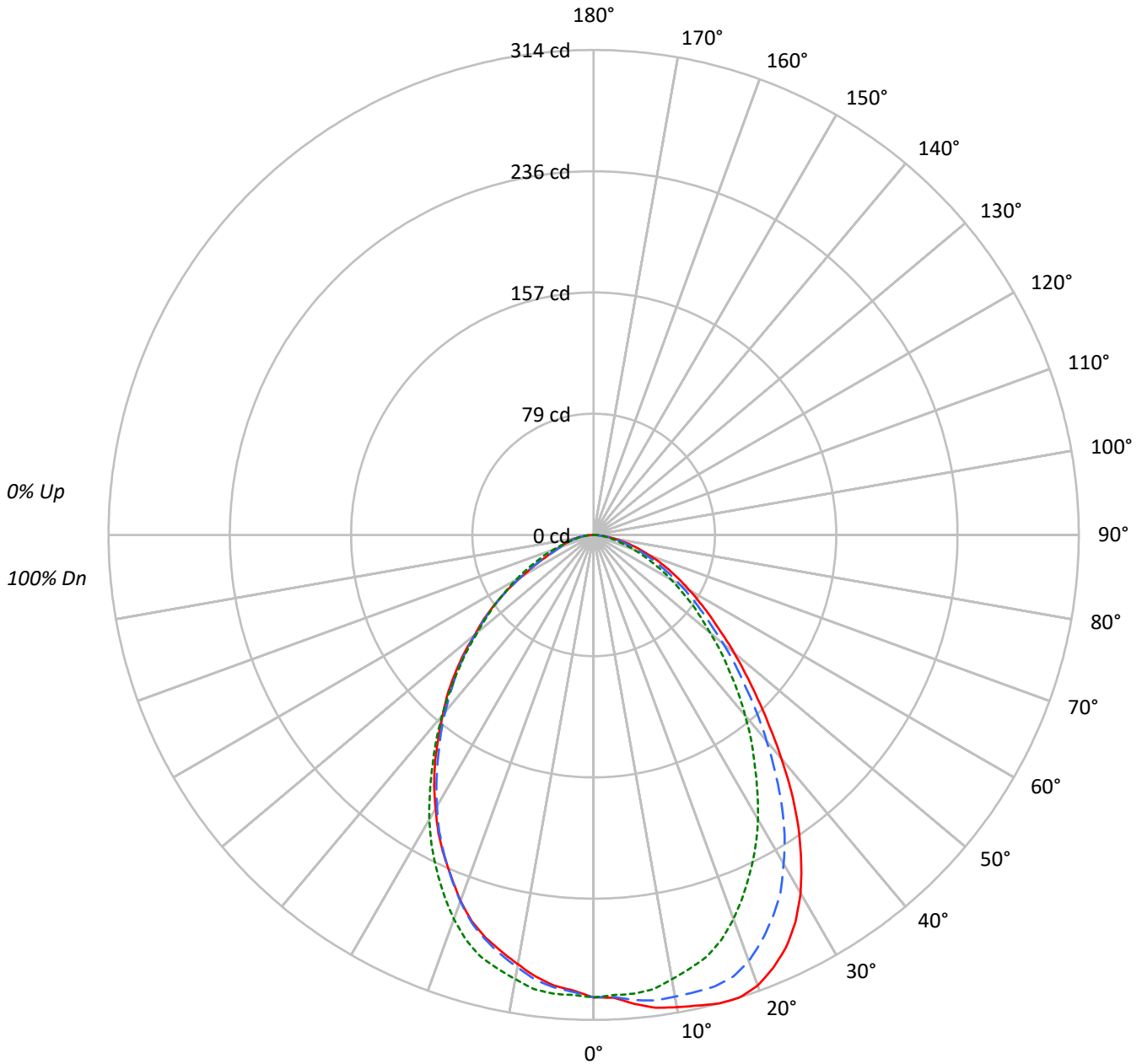
Lumens per Lamp: N/A
Luminaire Lumens: 586.5 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 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 | | | | 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° | 16413 | 16413 | 16413 |
| 5° | 16773 | 16410 | 16118 |
| 10° | 17284 | 16260 | 15714 |
| 15° | 17826 | 16044 | 15324 |
| 20° | 18114 | 15436 | 14701 |
| 25° | 17820 | 14523 | 13858 |
| 30° | 16958 | 13470 | 12945 |
| 35° | 15466 | 12153 | 11966 |
| 40° | 13525 | 10913 | 10863 |
| 45° | 11645 | 9613 | 9830 |
| 50° | 10115 | 8375 | 8546 |
| 55° | 8831 | 7359 | 7426 |
| 60° | 7850 | 6370 | 5833 |
| 65° | 7005 | 5370 | 4462 |
| 70° | 6155 | 4408 | 3735 |
| 75° | 5295 | 3474 | 3537 |
| 80° | 4230 | 2968 | 3504 |
| 85° | 2830 | 2579 | 3082 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 28.4 | 4.8 |
| 10°-20° | 80.7 | 13.8 |
| 20°-30° | 115.2 | 19.6 |
| 30°-40° | 120.7 | 20.6 |
| 40°-50° | 101.6 | 17.3 |
| 50°-60° | 72.3 | 12.3 |
| 60°-70° | 42.4 | 7.2 |
| 70°-80° | 20.0 | 3.4 |
| 80°-90° | 5.2 | 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° | 224.3 | 38.2 |
| 0°-40° | 345.0 | 58.8 |
| 0°-60° | 518.9 | 88.5 |
| 0°-90° | 586.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 586.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 299 | 299 | 299 | 299 | 299 | |
| 5° | 305 | 302 | 298 | 294 | 293 | 29 |
| 15° | 314 | 303 | 283 | 271 | 270 | 89 |
| 25° | 295 | 274 | 240 | 229 | 229 | 135 |
| 35° | 231 | 212 | 182 | 176 | 179 | 144 |
| 45° | 150 | 139 | 124 | 124 | 127 | 117 |
| 55° | 92 | 85 | 77 | 77 | 78 | 83 |
| 65° | 54 | 48 | 41 | 35 | 34 | 54 |
| 75° | 25 | 21 | 16 | 16 | 17 | 27 |
| 85° | 4 | 4 | 4 | 5 | 5 | 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° | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 | 299.4 |
| 2.5° | 299.9 | 299.9 | 299.4 | 299.0 | 298.2 | 297.0 | 296.2 | 295.4 | 295.4 |
| 5° | 304.8 | 304.0 | 302.3 | 300.2 | 298.2 | 295.7 | 294.1 | 292.9 | 292.9 |
| 7.5° | 308.8 | 307.2 | 304.0 | 300.2 | 296.6 | 293.3 | 290.4 | 288.8 | 288.4 |
| 10° | 310.5 | 308.5 | 303.5 | 297.9 | 292.1 | 287.6 | 284.3 | 282.3 | 282.3 |
| 12.5° | 312.1 | 309.6 | 303.2 | 294.9 | 287.6 | 281.5 | 278.2 | 276.5 | 276.2 |
| 15° | 314.1 | 310.9 | 302.7 | 292.4 | 282.7 | 275.7 | 271.2 | 270.0 | 270.0 |
| 17.5° | 314.1 | 310.1 | 299.9 | 287.1 | 274.9 | 267.1 | 263.1 | 261.8 | 262.3 |
| 20° | 310.5 | 306.0 | 293.7 | 278.2 | 264.6 | 256.5 | 252.4 | 251.5 | 252.0 |
| 22.5° | 303.5 | 298.2 | 284.3 | 267.6 | 252.8 | 244.2 | 240.6 | 240.6 | 240.1 |
| 25° | 294.6 | 288.8 | 273.7 | 256.1 | 240.1 | 231.5 | 228.7 | 229.1 | 229.1 |
| 27.5° | 282.7 | 277.0 | 261.8 | 243.0 | 227.0 | 218.4 | 216.4 | 217.2 | 217.6 |
| 30° | 267.9 | 261.8 | 245.9 | 227.5 | 212.8 | 204.1 | 202.9 | 204.1 | 204.5 |
| 32.5° | 250.0 | 245.4 | 230.0 | 211.1 | 197.2 | 189.8 | 189.4 | 190.6 | 192.2 |
| 35° | 231.1 | 226.2 | 211.9 | 194.7 | 181.6 | 175.5 | 175.5 | 177.5 | 178.8 |
| 37.5° | 210.6 | 205.8 | 192.7 | 178.3 | 167.4 | 161.6 | 162.4 | 164.4 | 164.9 |
| 40° | 189.0 | 185.3 | 174.2 | 162.0 | 152.5 | 148.1 | 149.3 | 151.3 | 151.8 |
| 42.5° | 168.6 | 165.3 | 156.3 | 145.2 | 138.3 | 135.0 | 136.6 | 139.1 | 139.9 |
| 45° | 150.2 | 146.4 | 139.1 | 129.7 | 124.0 | 122.3 | 124.4 | 126.0 | 126.8 |
| 47.5° | 133.3 | 130.1 | 124.0 | 115.4 | 111.3 | 110.4 | 112.5 | 113.3 | 114.1 |
| 50° | 118.6 | 115.4 | 109.3 | 101.5 | 98.2 | 98.2 | 99.8 | 100.7 | 100.2 |
| 52.5° | 104.3 | 101.5 | 95.7 | 89.2 | 87.1 | 87.1 | 88.4 | 88.8 | 89.6 |
| 55° | 92.4 | 89.6 | 84.6 | 78.5 | 77.0 | 76.0 | 77.0 | 77.0 | 77.7 |
| 57.5° | 81.4 | 79.0 | 74.5 | 68.7 | 66.7 | 65.9 | 65.4 | 65.1 | 65.9 |
| 60° | 71.6 | 69.5 | 64.6 | 59.8 | 58.1 | 56.0 | 54.4 | 52.8 | 53.2 |
| 62.5° | 62.6 | 60.6 | 56.0 | 51.2 | 49.5 | 46.7 | 44.6 | 42.6 | 43.4 |
| 65° | 54.0 | 52.0 | 47.9 | 43.7 | 41.4 | 38.1 | 34.8 | 33.6 | 34.4 |
| 67.5° | 46.2 | 44.6 | 40.5 | 36.4 | 34.4 | 30.7 | 27.5 | 27.5 | 27.8 |
| 70° | 38.4 | 36.8 | 33.6 | 29.8 | 27.5 | 24.2 | 22.9 | 23.3 | 23.3 |
| 72.5° | 31.5 | 30.3 | 27.0 | 23.7 | 21.2 | 19.2 | 19.2 | 19.7 | 20.0 |
| 75° | 25.0 | 24.2 | 20.9 | 18.0 | 16.4 | 15.1 | 15.9 | 16.4 | 16.7 |
| 77.5° | 19.2 | 18.0 | 15.6 | 13.4 | 12.3 | 12.7 | 13.4 | 13.9 | 14.4 |
| 80° | 13.4 | 13.1 | 11.1 | 9.8 | 9.4 | 9.8 | 10.6 | 11.1 | 11.1 |
| 82.5° | 8.6 | 8.1 | 7.0 | 6.6 | 6.6 | 7.0 | 7.8 | 7.8 | 7.8 |
| 85° | 4.5 | 4.1 | 3.7 | 3.7 | 4.1 | 4.5 | 4.9 | 4.9 | 4.9 |
| 87.5° | 1.6 | 1.2 | 1.6 | 1.6 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| 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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