

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: P593013

Luminaire Tested: **HCC6W05D010BZ-HM60525950-61WWBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593013
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: HCC6W05D010BZ-HM60525950-61WWBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, WHITE BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

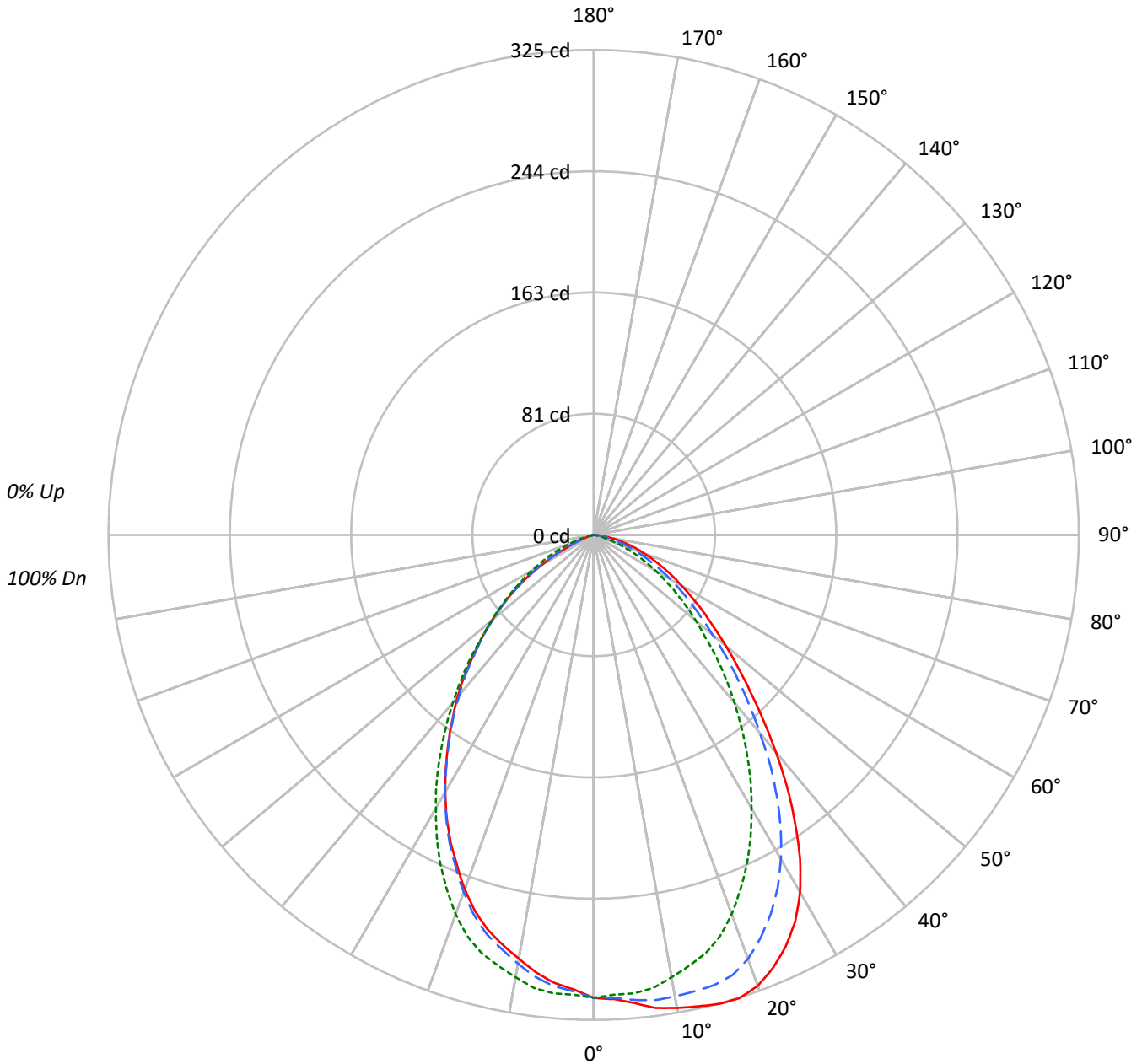
Lumens per Lamp: N/A
Luminaire Lumens: 552.7 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.06 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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° | 17005 | 17005 | 17005 |
| 5° | 17329 | 16971 | 16586 |
| 10° | 17919 | 16755 | 16054 |
| 15° | 18468 | 16464 | 15545 |
| 20° | 18756 | 15775 | 14736 |
| 25° | 18412 | 14698 | 13719 |
| 30° | 17503 | 13388 | 12591 |
| 35° | 15740 | 11973 | 11357 |
| 40° | 13575 | 10491 | 10148 |
| 45° | 11497 | 9032 | 8799 |
| 50° | 9859 | 7624 | 7556 |
| 55° | 8544 | 6413 | 6165 |
| 60° | 7456 | 5219 | 4397 |
| 65° | 6564 | 4021 | 2439 |
| 70° | 5674 | 2661 | 1202 |
| 75° | 4808 | 1292 | 445 |
| 80° | 3725 | 537 | 284 |
| 85° | 2201 | 314 | 314 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.3 | 5.3 |
| 10°-20° | 82.8 | 15.0 |
| 20°-30° | 116.5 | 21.1 |
| 30°-40° | 119.1 | 21.5 |
| 40°-50° | 96.0 | 17.4 |
| 50°-60° | 64.4 | 11.6 |
| 60°-70° | 32.6 | 5.9 |
| 70°-80° | 10.4 | 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° | 228.6 | 41.4 |
| 0°-40° | 347.7 | 62.9 |
| 0°-60° | 508.1 | 91.9 |
| 0°-90° | 552.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 552.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 310 | 310 | 310 | 310 | 310 | |
| 5° | 315 | 313 | 308 | 304 | 301 | 30 |
| 15° | 325 | 312 | 290 | 277 | 274 | 92 |
| 25° | 304 | 280 | 243 | 228 | 227 | 139 |
| 35° | 235 | 214 | 179 | 169 | 170 | 146 |
| 45° | 148 | 136 | 116 | 112 | 114 | 115 |
| 55° | 89 | 79 | 67 | 64 | 64 | 80 |
| 65° | 51 | 42 | 31 | 20 | 19 | 50 |
| 75° | 23 | 16 | 6 | 2 | 2 | 24 |
| 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° | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 | 310.2 |
| 2.5° | 311.4 | 311.0 | 310.5 | 309.7 | 308.4 | 307.1 | 306.2 | 305.3 | 304.9 |
| 5° | 314.9 | 314.0 | 312.8 | 311.0 | 308.4 | 305.3 | 303.6 | 301.8 | 301.4 |
| 7.5° | 319.8 | 318.0 | 314.5 | 310.5 | 306.2 | 301.8 | 298.8 | 297.1 | 295.7 |
| 10° | 321.9 | 318.9 | 314.0 | 307.5 | 301.0 | 295.7 | 291.8 | 289.2 | 288.4 |
| 12.5° | 323.6 | 320.1 | 313.2 | 304.4 | 295.7 | 288.7 | 284.4 | 282.3 | 281.4 |
| 15° | 325.4 | 321.9 | 312.3 | 301.0 | 290.1 | 281.8 | 277.0 | 274.8 | 273.9 |
| 17.5° | 325.4 | 320.6 | 309.3 | 294.8 | 281.8 | 271.8 | 266.9 | 264.8 | 264.3 |
| 20° | 321.5 | 316.3 | 302.3 | 285.3 | 270.4 | 259.1 | 254.7 | 253.5 | 252.6 |
| 22.5° | 314.0 | 307.9 | 292.2 | 273.0 | 257.0 | 246.0 | 241.3 | 240.4 | 239.4 |
| 25° | 304.4 | 298.3 | 280.5 | 260.0 | 243.0 | 232.1 | 228.1 | 227.2 | 226.8 |
| 27.5° | 292.2 | 285.7 | 266.9 | 246.0 | 227.7 | 217.2 | 213.8 | 213.8 | 213.3 |
| 30° | 276.5 | 269.2 | 250.9 | 229.8 | 211.5 | 201.9 | 199.3 | 199.3 | 198.9 |
| 32.5° | 257.4 | 250.0 | 233.3 | 213.3 | 195.8 | 185.8 | 183.6 | 184.5 | 184.1 |
| 35° | 235.2 | 229.1 | 213.8 | 194.1 | 178.9 | 169.7 | 168.8 | 169.7 | 169.7 |
| 37.5° | 212.9 | 207.2 | 194.1 | 177.1 | 162.7 | 154.5 | 154.5 | 155.7 | 155.3 |
| 40° | 189.7 | 185.4 | 173.2 | 158.3 | 146.6 | 140.9 | 140.0 | 141.4 | 141.8 |
| 42.5° | 167.9 | 164.4 | 154.0 | 141.8 | 131.3 | 125.7 | 126.9 | 127.8 | 128.3 |
| 45° | 148.3 | 144.9 | 136.5 | 123.8 | 116.5 | 112.5 | 112.5 | 113.9 | 113.5 |
| 47.5° | 130.9 | 128.3 | 120.0 | 107.7 | 101.2 | 99.4 | 100.3 | 101.2 | 101.2 |
| 50° | 115.6 | 111.6 | 103.8 | 94.2 | 89.4 | 87.2 | 88.1 | 88.6 | 88.6 |
| 52.5° | 101.2 | 98.5 | 90.7 | 82.0 | 77.6 | 76.4 | 76.4 | 76.7 | 76.7 |
| 55° | 89.4 | 86.3 | 79.4 | 70.6 | 67.1 | 65.4 | 64.1 | 63.7 | 64.5 |
| 57.5° | 78.1 | 75.5 | 68.9 | 60.7 | 56.7 | 54.9 | 52.3 | 51.5 | 52.3 |
| 60° | 68.0 | 65.9 | 59.3 | 51.5 | 47.6 | 44.1 | 41.0 | 39.2 | 40.1 |
| 62.5° | 59.3 | 56.7 | 50.2 | 43.6 | 39.2 | 35.4 | 30.5 | 27.9 | 29.3 |
| 65° | 50.6 | 48.4 | 41.9 | 35.4 | 31.0 | 26.2 | 20.5 | 18.8 | 18.8 |
| 67.5° | 42.7 | 40.6 | 34.5 | 28.8 | 23.5 | 17.9 | 12.7 | 12.2 | 12.7 |
| 70° | 35.4 | 33.1 | 27.9 | 22.3 | 16.6 | 11.0 | 7.5 | 7.5 | 7.5 |
| 72.5° | 29.3 | 26.6 | 21.8 | 16.2 | 10.5 | 5.6 | 4.0 | 4.4 | 4.4 |
| 75° | 22.7 | 20.5 | 16.2 | 11.0 | 6.1 | 2.6 | 2.1 | 2.1 | 2.1 |
| 77.5° | 17.1 | 15.3 | 11.3 | 7.0 | 3.1 | 0.9 | 0.9 | 0.9 | 0.9 |
| 80° | 11.8 | 10.1 | 7.5 | 4.4 | 1.7 | 0.9 | 0.9 | 0.9 | 0.9 |
| 82.5° | 7.0 | 6.1 | 4.4 | 2.1 | 0.9 | 0.5 | 0.5 | 0.5 | 0.5 |
| 85° | 3.5 | 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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