

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: P581739

Luminaire Tested: **HCC6W15D010MW-HM60525835-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581739
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HCC6W15D010MW-HM60525835-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
CYLINDER
Ballast/Driver: ELECTRONIC DRIVER

Summary

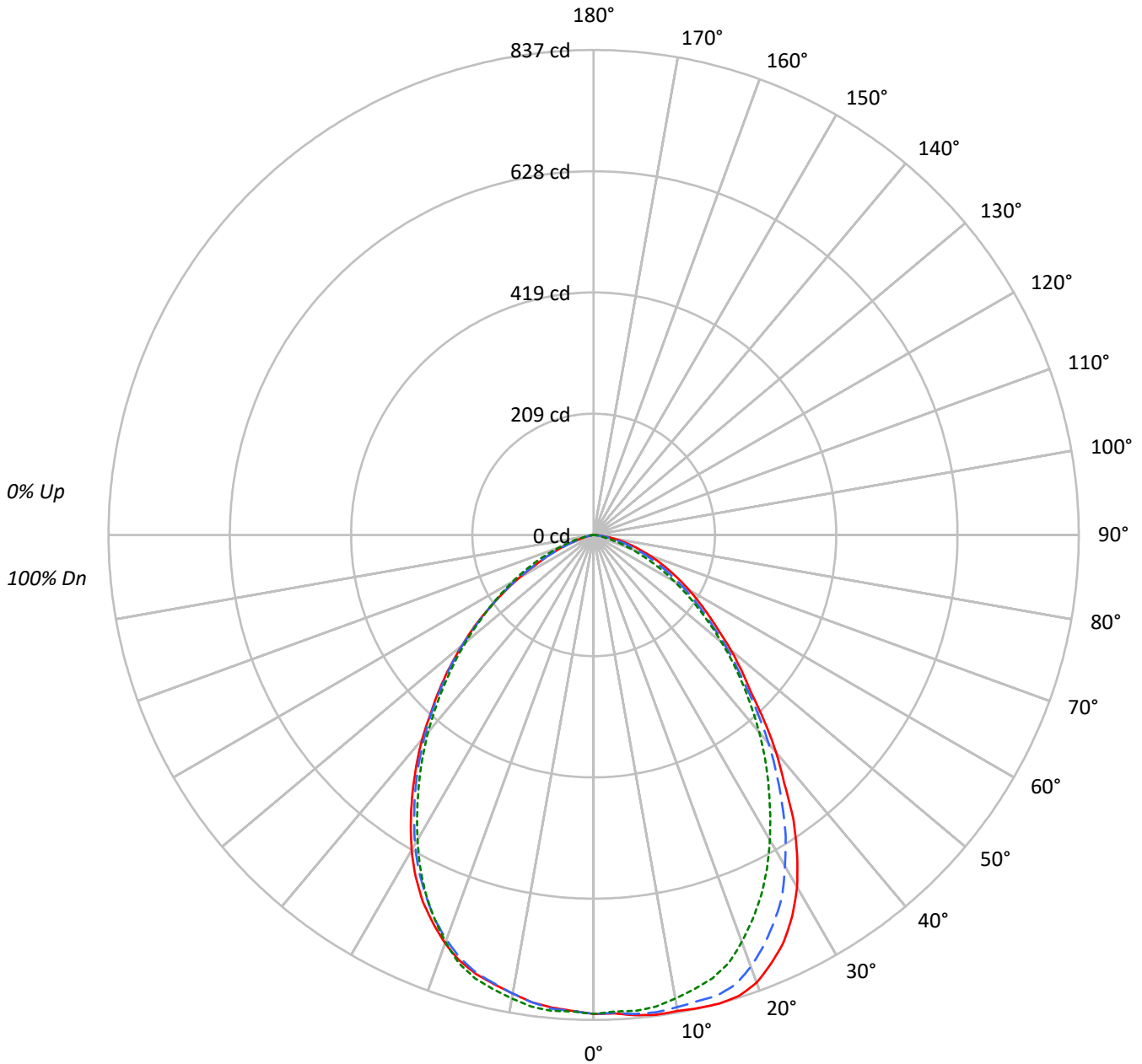
Lumens per Lamp: N/A
Luminaire Lumens: 1619.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.19
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 14
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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | 88 | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | 77 | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | 67 | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | 59 | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | 53 | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | 42 | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | 38 | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | 35 | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | 32 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 45314 | 45314 | 45314 |
| 5° | 45790 | 45372 | 45069 |
| 10° | 46436 | 45229 | 44750 |
| 15° | 47526 | 44949 | 44518 |
| 20° | 47972 | 43608 | 43736 |
| 25° | 46920 | 41416 | 42202 |
| 30° | 44437 | 38474 | 39772 |
| 35° | 40241 | 35161 | 36466 |
| 40° | 35037 | 31788 | 32955 |
| 45° | 29732 | 28142 | 29143 |
| 50° | 26327 | 24579 | 25227 |
| 55° | 23196 | 21027 | 20912 |
| 60° | 20777 | 17696 | 16282 |
| 65° | 18549 | 14191 | 11661 |
| 70° | 16317 | 10242 | 7293 |
| 75° | 13768 | 6206 | 4130 |
| 80° | 10607 | 2715 | 1705 |
| 85° | 6164 | 692 | 692 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 78.5 | 4.8 |
| 10°-20° | 225.5 | 13.9 |
| 20°-30° | 326.0 | 20.1 |
| 30°-40° | 343.0 | 21.2 |
| 40°-50° | 288.4 | 17.8 |
| 50°-60° | 202.4 | 12.5 |
| 60°-70° | 111.3 | 6.9 |
| 70°-80° | 39.5 | 2.4 |
| 80°-90° | 5.2 | 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° | 630.0 | 38.9 |
| 0°-40° | 973.0 | 60.1 |
| 0°-60° | 1463.7 | 90.4 |
| 0°-90° | 1619.8 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1619.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 827 | 827 | 827 | 827 | 827 | |
| 5° | 832 | 830 | 824 | 821 | 819 | 80 |
| 15° | 837 | 823 | 792 | 782 | 784 | 236 |
| 25° | 776 | 737 | 685 | 686 | 698 | 355 |
| 35° | 601 | 567 | 525 | 536 | 545 | 373 |
| 45° | 384 | 373 | 363 | 372 | 376 | 301 |
| 55° | 243 | 230 | 220 | 220 | 219 | 218 |
| 65° | 143 | 128 | 109 | 90 | 90 | 142 |
| 75° | 65 | 52 | 29 | 20 | 20 | 70 |
| 85° | 10 | 5 | 1 | 1 | 1 | 13 |
| 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° | 826.6 | 826.6 | 826.6 | 826.6 | 826.6 | 826.6 | 826.6 | 826.6 | 826.6 |
| 2.5° | 826.6 | 826.6 | 825.5 | 825.5 | 823.3 | 823.3 | 822.3 | 822.3 | 822.3 |
| 5° | 832.1 | 832.1 | 829.9 | 826.6 | 824.5 | 821.2 | 821.2 | 820.2 | 819.0 |
| 7.5° | 835.2 | 834.2 | 830.9 | 826.6 | 821.2 | 815.8 | 813.6 | 814.7 | 813.6 |
| 10° | 834.2 | 832.1 | 827.8 | 819.0 | 812.5 | 804.9 | 803.9 | 802.8 | 803.9 |
| 12.5° | 836.4 | 833.1 | 824.5 | 813.6 | 802.8 | 794.2 | 793.0 | 793.0 | 794.2 |
| 15° | 837.4 | 834.2 | 823.3 | 807.1 | 792.0 | 783.3 | 782.2 | 783.3 | 784.4 |
| 17.5° | 834.2 | 829.9 | 813.6 | 792.0 | 774.6 | 765.9 | 765.9 | 768.2 | 770.3 |
| 20° | 822.3 | 815.8 | 793.0 | 767.0 | 747.5 | 741.0 | 743.2 | 747.5 | 749.7 |
| 22.5° | 800.6 | 793.0 | 767.0 | 737.8 | 717.2 | 711.8 | 717.2 | 722.7 | 724.8 |
| 25° | 775.7 | 767.0 | 736.7 | 706.3 | 684.7 | 678.2 | 685.8 | 694.4 | 697.7 |
| 27.5° | 742.1 | 732.4 | 704.2 | 669.5 | 647.9 | 644.6 | 653.3 | 663.1 | 665.2 |
| 30° | 702.0 | 691.2 | 659.8 | 627.3 | 607.8 | 606.7 | 616.4 | 625.2 | 628.3 |
| 32.5° | 653.3 | 643.5 | 616.4 | 584.0 | 566.6 | 566.6 | 576.4 | 584.0 | 587.2 |
| 35° | 601.3 | 590.4 | 566.6 | 539.6 | 525.4 | 526.5 | 536.3 | 541.7 | 544.9 |
| 37.5° | 539.6 | 536.3 | 517.9 | 495.1 | 485.3 | 487.5 | 495.1 | 499.4 | 502.7 |
| 40° | 489.6 | 481.0 | 469.1 | 450.7 | 444.2 | 446.4 | 453.9 | 458.3 | 460.5 |
| 42.5° | 435.5 | 430.1 | 420.4 | 407.4 | 403.0 | 406.2 | 412.8 | 416.0 | 415.0 |
| 45° | 383.5 | 382.4 | 372.7 | 365.1 | 363.0 | 367.3 | 371.6 | 374.9 | 375.9 |
| 47.5° | 345.6 | 341.3 | 332.6 | 327.2 | 325.1 | 329.4 | 333.7 | 335.8 | 335.8 |
| 50° | 308.7 | 304.4 | 295.8 | 290.3 | 288.2 | 292.5 | 295.8 | 297.9 | 295.8 |
| 52.5° | 271.9 | 267.6 | 260.0 | 253.6 | 252.4 | 254.6 | 255.7 | 256.7 | 258.9 |
| 55° | 242.7 | 238.4 | 229.7 | 222.1 | 220.0 | 221.0 | 220.0 | 220.0 | 218.8 |
| 57.5° | 214.5 | 210.2 | 201.5 | 192.8 | 189.5 | 188.5 | 185.2 | 184.2 | 183.1 |
| 60° | 189.5 | 184.2 | 175.5 | 165.7 | 161.4 | 157.1 | 151.6 | 148.5 | 148.5 |
| 62.5° | 165.7 | 160.4 | 150.6 | 141.9 | 135.4 | 127.8 | 119.2 | 114.9 | 114.9 |
| 65° | 143.0 | 138.7 | 127.8 | 118.0 | 109.4 | 99.7 | 89.9 | 87.7 | 89.9 |
| 67.5° | 121.3 | 117.0 | 106.1 | 96.5 | 85.6 | 73.7 | 65.0 | 65.0 | 67.2 |
| 70° | 101.8 | 97.5 | 87.7 | 75.8 | 63.9 | 52.0 | 45.5 | 45.5 | 45.5 |
| 72.5° | 83.4 | 79.1 | 68.2 | 57.4 | 45.5 | 33.6 | 30.3 | 31.4 | 30.3 |
| 75° | 65.0 | 61.7 | 52.0 | 40.1 | 29.3 | 20.5 | 19.5 | 18.4 | 19.5 |
| 77.5° | 48.8 | 45.5 | 36.9 | 26.0 | 16.2 | 11.9 | 10.8 | 10.8 | 10.8 |
| 80° | 33.6 | 30.3 | 23.8 | 15.2 | 8.6 | 5.4 | 5.4 | 5.4 | 5.4 |
| 82.5° | 20.5 | 17.4 | 13.1 | 7.6 | 3.3 | 3.3 | 3.3 | 3.3 | 3.3 |
| 85° | 9.8 | 7.6 | 5.4 | 2.2 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 |
| 87.5° | 2.2 | 2.2 | 1.1 | 1.1 | 0.0 | 1.1 | 1.1 | 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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