

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: P593012

Luminaire Tested: **HC605D010-HM60525950-61RWWH**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P593012
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: HC605D010-HM60525950-61RWWH
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 652.2 lumens
Efficiency: N/A
Efficacy: 108.7 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

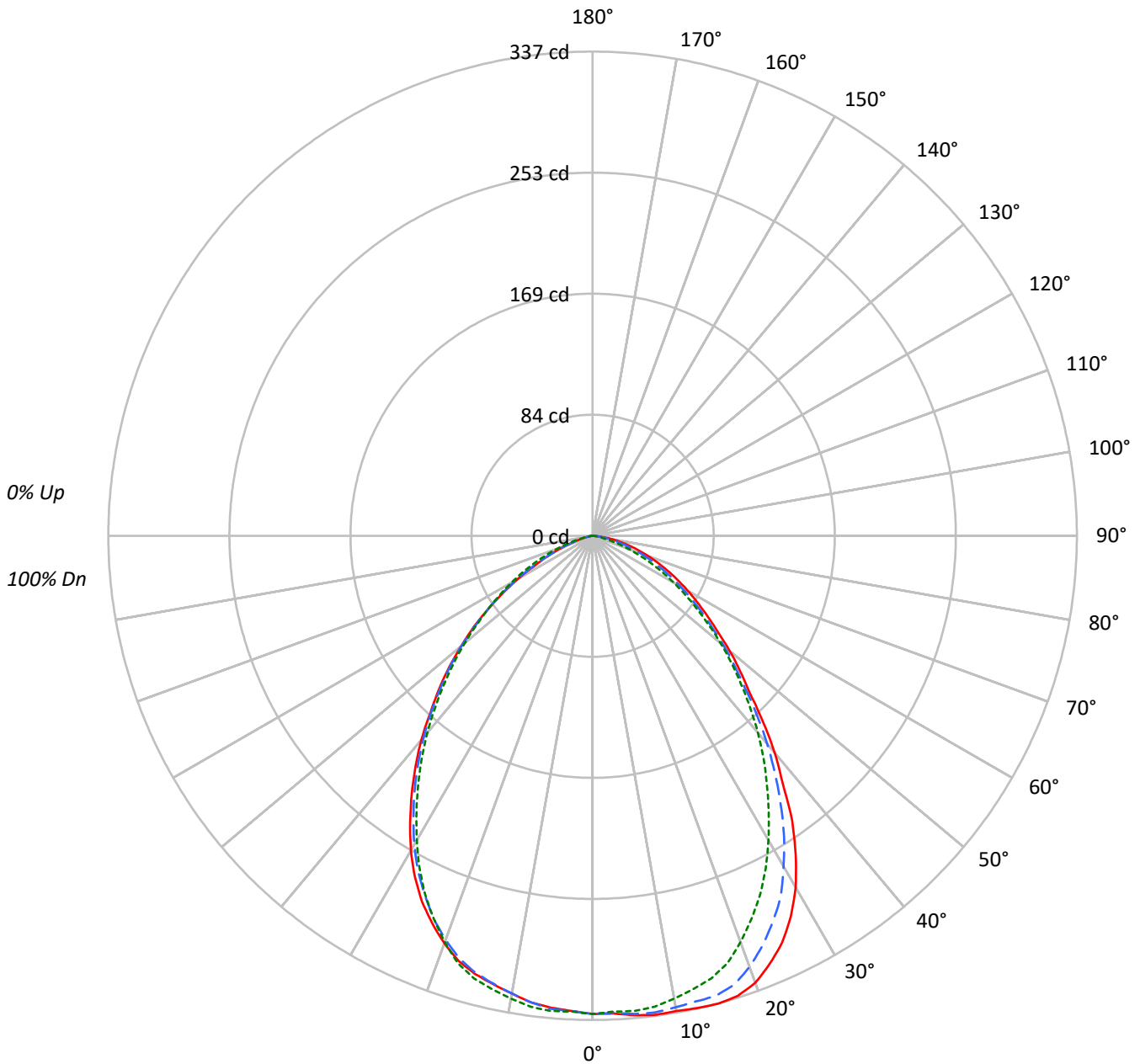
Input Watts (W): 6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P593012

CATALOG NUMBER: HC605D010-HM60525950-61RWWH

Luminous Intensity Polar Plot





TEST NUMBER: P593012

CATALOG NUMBER: HC605D010-HM60525950-61RWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 84 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 70 | 77 | 73 | 69 | 67 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 | | | | | | | | | | | | | | | | | | | |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 | | | | | | | | | | | | | | | | | | | |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 | | | | | | | | | | | | | | | | | | | |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 41 | 51 | 45 | 40 | 50 | 44 | 40 | 38 | | | | | | | | | | | | | | | | | | | |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 42 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 35 | | | | | | | | | | | | | | | | | | | |
| 10 | 59 | 46 | 39 | 34 | 57 | 46 | 39 | 34 | 45 | 38 | 34 | 44 | 38 | 34 | 43 | 38 | 34 | 32 | | | | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|-------|-------|
| 0° | 18244 | 18244 | 18244 |
| 5° | 18435 | 18270 | 18143 |
| 10° | 18693 | 18208 | 18013 |
| 15° | 19137 | 18099 | 17923 |
| 20° | 19316 | 17554 | 17607 |
| 25° | 18890 | 16676 | 16991 |
| 30° | 17889 | 15483 | 16015 |
| 35° | 16195 | 14154 | 14683 |
| 40° | 14112 | 12803 | 13268 |
| 45° | 11970 | 11327 | 11730 |
| 50° | 10601 | 9902 | 10157 |
| 55° | 9338 | 8468 | 8420 |
| 60° | 8377 | 7127 | 6556 |
| 65° | 7472 | 5720 | 4696 |
| 70° | 6572 | 4135 | 2933 |
| 75° | 5549 | 2499 | 1652 |
| 80° | 4293 | 1105 | 663 |
| 85° | 2516 | 314 | 314 |



TEST NUMBER: P593012

CATALOG NUMBER: HC605D010-HM60525950-61RWWH

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 31.6 | 4.8 |
| 10°-20° | 90.8 | 13.9 |
| 20°-30° | 131.2 | 20.1 |
| 30°-40° | 138.1 | 21.2 |
| 40°-50° | 116.1 | 17.8 |
| 50°-60° | 81.5 | 12.5 |
| 60°-70° | 44.8 | 6.9 |
| 70°-80° | 15.9 | 2.4 |
| 80°-90° | 2.1 | 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° | 253.6 | 38.9 |
| 0°-40° | 391.7 | 60.1 |
| 0°-60° | 589.3 | 90.4 |
| 0°-90° | 652.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 652.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 333 | 333 | 333 | 333 | 333 | |
| 5° | 335 | 334 | 332 | 331 | 330 | 32 |
| 15° | 337 | 332 | 319 | 315 | 316 | 95 |
| 25° | 312 | 297 | 276 | 276 | 281 | 143 |
| 35° | 242 | 228 | 212 | 216 | 219 | 150 |
| 45° | 154 | 150 | 146 | 150 | 151 | 121 |
| 55° | 98 | 92 | 89 | 89 | 88 | 88 |
| 65° | 58 | 51 | 44 | 36 | 36 | 57 |
| 75° | 26 | 21 | 12 | 8 | 8 | 28 |
| 85° | 4 | 2 | 0 | 0 | 0 | 5 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P593012

CATALOG NUMBER: HC605D010-HM60525950-61RWWH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 332.8 | 332.8 | 332.8 | 332.8 | 332.8 | 332.8 | 332.8 | 332.8 | 332.8 |
| 2.5° | 332.8 | 332.8 | 332.3 | 332.3 | 331.5 | 331.5 | 331.1 | 331.1 | 331.1 |
| 5° | 335.0 | 335.0 | 334.1 | 332.8 | 332.0 | 330.6 | 330.6 | 330.2 | 329.7 |
| 7.5° | 336.3 | 335.8 | 334.6 | 332.8 | 330.6 | 328.5 | 327.6 | 328.0 | 327.6 |
| 10° | 335.8 | 335.0 | 333.2 | 329.7 | 327.1 | 324.1 | 323.6 | 323.2 | 323.6 |
| 12.5° | 336.7 | 335.4 | 332.0 | 327.6 | 323.2 | 319.7 | 319.3 | 319.3 | 319.7 |
| 15° | 337.2 | 335.8 | 331.5 | 325.0 | 318.9 | 315.4 | 314.9 | 315.4 | 315.8 |
| 17.5° | 335.8 | 334.1 | 327.6 | 318.9 | 311.9 | 308.4 | 308.4 | 309.3 | 310.2 |
| 20° | 331.1 | 328.5 | 319.3 | 308.8 | 300.9 | 298.3 | 299.2 | 300.9 | 301.8 |
| 22.5° | 322.4 | 319.3 | 308.8 | 297.1 | 288.7 | 286.6 | 288.7 | 291.0 | 291.8 |
| 25° | 312.3 | 308.8 | 296.6 | 284.4 | 275.7 | 273.0 | 276.1 | 279.6 | 280.9 |
| 27.5° | 298.8 | 294.8 | 283.5 | 269.6 | 260.8 | 259.6 | 263.1 | 266.9 | 267.8 |
| 30° | 282.6 | 278.3 | 265.7 | 252.6 | 244.6 | 244.3 | 248.1 | 251.7 | 253.0 |
| 32.5° | 263.1 | 259.1 | 248.1 | 235.2 | 228.1 | 228.1 | 232.1 | 235.2 | 236.4 |
| 35° | 242.0 | 237.8 | 228.1 | 217.2 | 211.5 | 212.0 | 215.9 | 218.1 | 219.4 |
| 37.5° | 217.2 | 215.9 | 208.5 | 199.3 | 195.4 | 196.3 | 199.3 | 201.0 | 202.4 |
| 40° | 197.2 | 193.7 | 188.8 | 181.5 | 178.9 | 179.7 | 182.7 | 184.5 | 185.4 |
| 42.5° | 175.4 | 173.1 | 169.3 | 164.0 | 162.3 | 163.6 | 166.2 | 167.5 | 167.0 |
| 45° | 154.4 | 154.0 | 150.1 | 147.0 | 146.1 | 147.9 | 149.6 | 151.0 | 151.3 |
| 47.5° | 139.1 | 137.4 | 133.9 | 131.8 | 130.9 | 132.5 | 134.4 | 135.3 | 135.3 |
| 50° | 124.3 | 122.6 | 119.1 | 116.8 | 116.1 | 117.7 | 119.1 | 120.0 | 119.1 |
| 52.5° | 109.5 | 107.7 | 104.6 | 102.0 | 101.6 | 102.5 | 102.9 | 103.4 | 104.3 |
| 55° | 97.7 | 95.9 | 92.4 | 89.4 | 88.6 | 88.9 | 88.6 | 88.6 | 88.1 |
| 57.5° | 86.3 | 84.6 | 81.1 | 77.6 | 76.4 | 75.9 | 74.6 | 74.1 | 73.7 |
| 60° | 76.4 | 74.1 | 70.6 | 66.8 | 65.0 | 63.3 | 61.0 | 59.8 | 59.8 |
| 62.5° | 66.8 | 64.5 | 60.7 | 57.2 | 54.6 | 51.4 | 48.0 | 46.2 | 46.2 |
| 65° | 57.6 | 55.8 | 51.4 | 47.6 | 44.1 | 40.1 | 36.2 | 35.4 | 36.2 |
| 67.5° | 48.8 | 47.1 | 42.7 | 38.9 | 34.5 | 29.6 | 26.2 | 26.2 | 27.0 |
| 70° | 41.0 | 39.2 | 35.4 | 30.5 | 25.8 | 20.9 | 18.3 | 18.3 | 18.3 |
| 72.5° | 33.6 | 31.9 | 27.5 | 23.2 | 18.3 | 13.6 | 12.2 | 12.7 | 12.2 |
| 75° | 26.2 | 24.9 | 20.9 | 16.2 | 11.8 | 8.2 | 7.8 | 7.5 | 7.8 |
| 77.5° | 19.7 | 18.3 | 14.8 | 10.5 | 6.6 | 4.7 | 4.4 | 4.4 | 4.4 |
| 80° | 13.6 | 12.2 | 9.6 | 6.1 | 3.5 | 2.1 | 2.1 | 2.1 | 2.1 |
| 82.5° | 8.2 | 7.0 | 5.2 | 3.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 |
| 85° | 4.0 | 3.1 | 2.1 | 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 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)