

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: P583286

Luminaire Tested: **HC607D010-HM60525827-61RWWC**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P583286
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC607D010-HM60525827-61RWWC
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WALLWASH DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 875.4 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.15 / 1.2
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

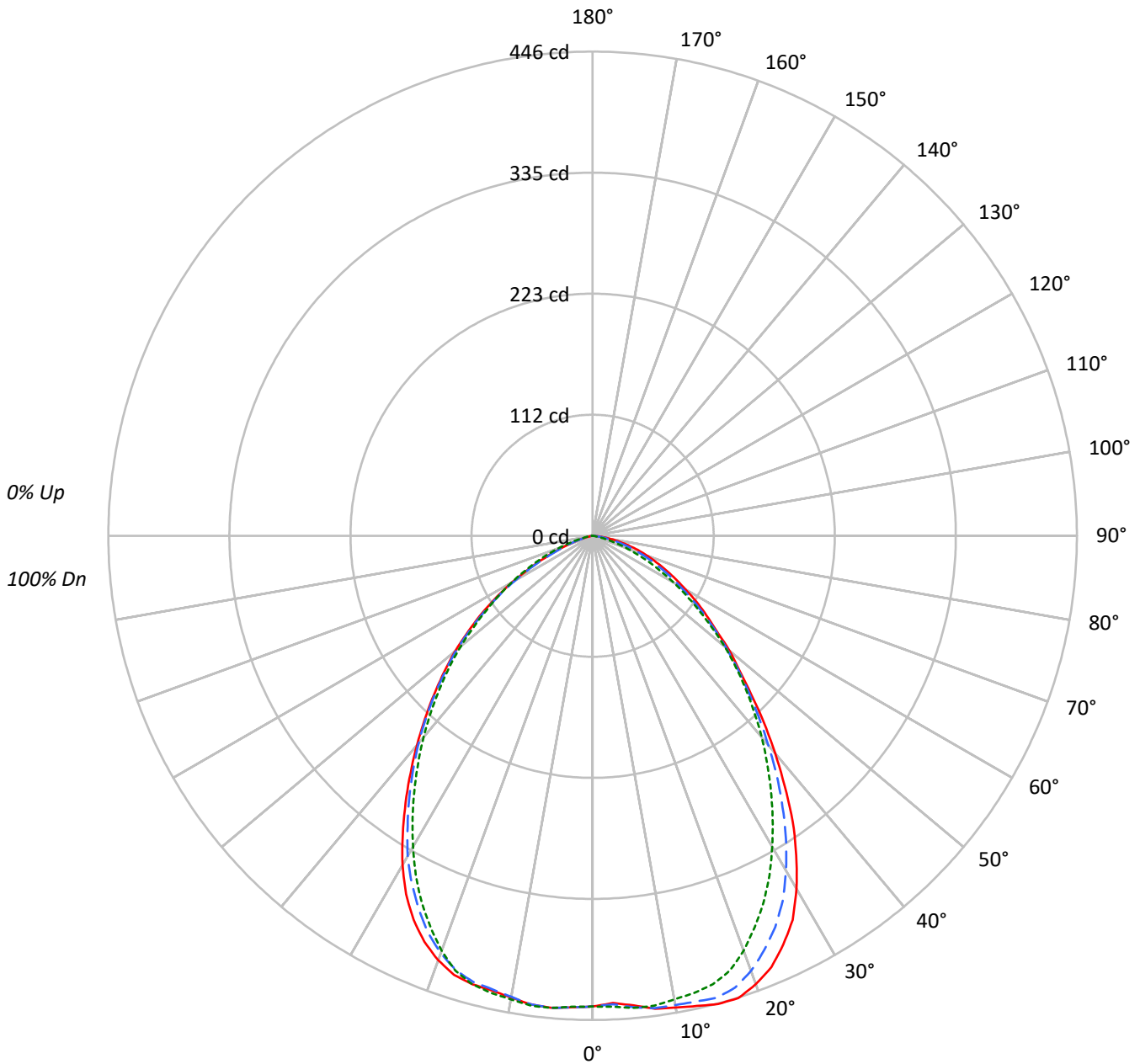
Input Watts (W): 8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| 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 | 94 | 92 | 90 | 88 | | | | | | | | | | | | | | | | | | | |
| 2 | 103 | 96 | 90 | 86 | 100 | 94 | 89 | 85 | 91 | 86 | 83 | 88 | 84 | 81 | 85 | 82 | 79 | 77 | | | | | | | | | | | | | | | | | | | |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 75 | 71 | 77 | 73 | 69 | 68 | | | | | | | | | | | | | | | | | | | |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 67 | 62 | 70 | 65 | 61 | 60 | | | | | | | | | | | | | | | | | | | |
| 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 | 62 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 | | | | | | | | | | | | | | | | | | | |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 45 | 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° | 23770 | 23770 | 23770 |
| 5° | 23894 | 24020 | 24020 |
| 10° | 24565 | 24137 | 24042 |
| 15° | 25341 | 24274 | 24274 |
| 20° | 25640 | 23720 | 24269 |
| 25° | 25132 | 22532 | 23602 |
| 30° | 23769 | 20940 | 22168 |
| 35° | 21509 | 19153 | 20090 |
| 40° | 18714 | 17325 | 17998 |
| 45° | 15986 | 15443 | 15986 |
| 50° | 14029 | 13526 | 14081 |
| 55° | 12243 | 11402 | 11851 |
| 60° | 10822 | 9462 | 9341 |
| 65° | 9599 | 7472 | 6408 |
| 70° | 8479 | 5273 | 3863 |
| 75° | 7223 | 2965 | 1864 |
| 80° | 5367 | 916 | 568 |
| 85° | 2893 | 377 | 377 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 41.6 | 4.8 |
| 10°-20° | 121.7 | 13.9 |
| 20°-30° | 177.7 | 20.3 |
| 30°-40° | 186.4 | 21.3 |
| 40°-50° | 157.0 | 17.9 |
| 50°-60° | 110.0 | 12.6 |
| 60°-70° | 59.0 | 6.7 |
| 70°-80° | 19.8 | 2.3 |
| 80°-90° | 2.2 | 0.2 |
| 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° | 341.0 | 39.0 |
| 0°-40° | 527.4 | 60.3 |
| 0°-60° | 794.5 | 90.8 |
| 0°-90° | 875.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 875.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-----|-----|-----|------|------|------|
| 0° | 434 | 434 | 434 | 434 | 434 | |
| 5° | 434 | 436 | 436 | 436 | 436 | 42 |
| 15° | 446 | 441 | 428 | 425 | 428 | 126 |
| 25° | 416 | 398 | 372 | 379 | 390 | 190 |
| 35° | 321 | 305 | 286 | 294 | 300 | 200 |
| 45° | 206 | 203 | 199 | 204 | 206 | 161 |
| 55° | 128 | 124 | 119 | 122 | 124 | 115 |
| 65° | 74 | 68 | 58 | 48 | 49 | 74 |
| 75° | 34 | 26 | 14 | 9 | 9 | 36 |
| 85° | 5 | 2 | 1 | 1 | 1 | 6 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P583286

CATALOG NUMBER: HC607D010-HM60525827-61RWWC

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 0° | 433.6 | 433.6 | 433.6 | 433.6 | 433.6 | 433.6 | 433.6 | 433.6 | 433.6 |
| 2.5° | 430.7 | 430.7 | 431.9 | 433.0 | 434.2 | 434.2 | 434.8 | 435.4 | 434.8 |
| 5° | 434.2 | 434.2 | 436.0 | 436.5 | 436.5 | 436.0 | 436.5 | 436.5 | 436.5 |
| 7.5° | 439.5 | 438.4 | 438.9 | 437.8 | 436.5 | 436.0 | 435.4 | 435.4 | 435.4 |
| 10° | 441.3 | 440.1 | 438.9 | 436.5 | 433.6 | 431.9 | 431.3 | 431.9 | 431.9 |
| 12.5° | 443.6 | 442.4 | 439.5 | 434.8 | 431.3 | 428.4 | 427.7 | 429.0 | 429.0 |
| 15° | 446.5 | 445.4 | 440.7 | 433.0 | 427.7 | 424.9 | 425.4 | 426.6 | 427.7 |
| 17.5° | 446.5 | 444.2 | 436.5 | 426.6 | 420.1 | 417.2 | 419.5 | 422.5 | 424.2 |
| 20° | 439.5 | 437.1 | 426.6 | 414.2 | 406.6 | 404.8 | 408.9 | 414.2 | 416.0 |
| 22.5° | 430.1 | 425.4 | 413.1 | 398.4 | 390.2 | 390.2 | 396.0 | 402.4 | 404.8 |
| 25° | 415.5 | 411.8 | 397.8 | 380.8 | 372.5 | 372.0 | 379.0 | 387.8 | 390.2 |
| 27.5° | 398.9 | 394.3 | 379.0 | 361.3 | 352.6 | 353.2 | 360.7 | 369.6 | 372.0 |
| 30° | 375.5 | 369.6 | 356.1 | 339.0 | 330.8 | 333.1 | 340.8 | 347.3 | 350.2 |
| 32.5° | 349.1 | 343.8 | 331.4 | 315.5 | 308.5 | 310.8 | 317.2 | 323.1 | 325.5 |
| 35° | 321.4 | 315.5 | 305.0 | 290.8 | 286.2 | 288.5 | 294.4 | 299.1 | 300.2 |
| 37.5° | 290.3 | 286.2 | 278.5 | 267.4 | 263.9 | 266.7 | 271.5 | 274.4 | 275.5 |
| 40° | 261.5 | 258.0 | 251.5 | 243.3 | 242.1 | 244.4 | 249.1 | 250.8 | 251.5 |
| 42.5° | 233.3 | 230.3 | 226.3 | 220.4 | 220.4 | 222.7 | 226.8 | 228.0 | 228.5 |
| 45° | 206.2 | 204.5 | 202.7 | 198.0 | 199.2 | 202.1 | 204.5 | 206.2 | 206.2 |
| 47.5° | 182.8 | 183.3 | 180.9 | 177.4 | 178.7 | 181.5 | 183.3 | 185.1 | 185.1 |
| 50° | 164.5 | 162.8 | 160.4 | 156.9 | 158.6 | 161.0 | 163.4 | 164.5 | 165.1 |
| 52.5° | 143.3 | 142.8 | 141.1 | 136.9 | 138.1 | 139.2 | 141.6 | 143.3 | 144.0 |
| 55° | 128.1 | 126.3 | 124.0 | 119.3 | 119.3 | 120.4 | 121.7 | 122.8 | 124.0 |
| 57.5° | 113.4 | 111.6 | 108.1 | 102.9 | 102.2 | 102.2 | 101.6 | 102.9 | 104.6 |
| 60° | 98.7 | 98.1 | 92.8 | 88.1 | 86.3 | 84.6 | 82.3 | 82.8 | 85.2 |
| 62.5° | 85.8 | 84.6 | 79.9 | 74.0 | 70.5 | 67.5 | 64.6 | 64.0 | 66.4 |
| 65° | 74.0 | 72.9 | 67.5 | 61.7 | 57.6 | 52.3 | 47.6 | 47.6 | 49.4 |
| 67.5° | 63.4 | 61.1 | 56.4 | 50.0 | 44.6 | 38.2 | 33.5 | 34.7 | 35.2 |
| 70° | 52.9 | 51.1 | 45.9 | 39.3 | 32.9 | 26.4 | 23.5 | 24.1 | 24.1 |
| 72.5° | 43.5 | 41.1 | 35.8 | 29.3 | 22.9 | 17.0 | 15.9 | 15.3 | 15.3 |
| 75° | 34.1 | 31.7 | 26.4 | 19.9 | 14.0 | 10.0 | 8.8 | 8.8 | 8.8 |
| 77.5° | 24.7 | 22.9 | 18.2 | 12.3 | 7.6 | 4.6 | 4.1 | 3.5 | 3.5 |
| 80° | 17.0 | 15.3 | 11.2 | 6.5 | 2.9 | 1.8 | 1.8 | 1.8 | 1.8 |
| 82.5° | 10.0 | 8.3 | 5.3 | 2.9 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 |
| 85° | 4.6 | 3.5 | 2.4 | 1.1 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 |
| 87.5° | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 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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— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)