

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: P582748

Luminaire Tested: **HC650D010-HM64560835-61WDBB**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P582748
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC650D010-HM64560835-61WDBB
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4809.7 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.14
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

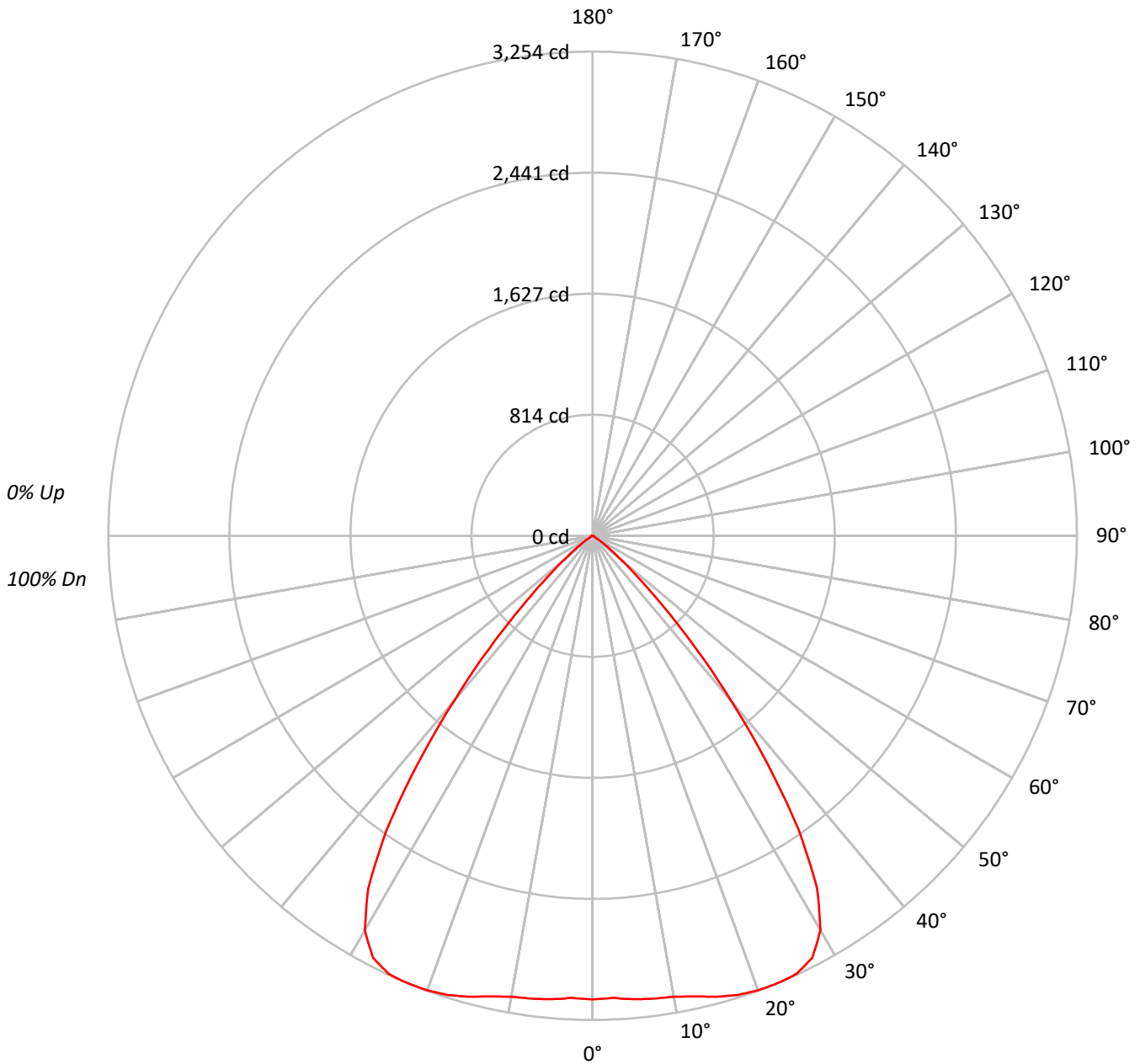
Input Watts (W): 48
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 100 | 100 |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 97 | 95 | 94 | 92 | 92 | 92 | 92 |
| 2 | 107 | 101 | 97 | 93 | 104 | 100 | 95 | 92 | 96 | 93 | 90 | 93 | 91 | 88 | 90 | 88 | 86 | 85 | 85 | 85 | 85 |
| 3 | 100 | 93 | 88 | 83 | 98 | 92 | 87 | 83 | 89 | 85 | 81 | 87 | 83 | 80 | 84 | 81 | 79 | 77 | 77 | 77 | 77 |
| 4 | 95 | 86 | 80 | 75 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 71 | 71 | 71 | 71 |
| 5 | 89 | 80 | 73 | 68 | 87 | 79 | 73 | 68 | 77 | 72 | 67 | 75 | 70 | 67 | 73 | 69 | 66 | 65 | 65 | 65 | 65 |
| 6 | 84 | 74 | 67 | 62 | 82 | 73 | 67 | 62 | 71 | 66 | 62 | 70 | 65 | 61 | 69 | 64 | 61 | 59 | 59 | 59 | 59 |
| 7 | 79 | 68 | 62 | 57 | 77 | 68 | 61 | 57 | 66 | 61 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 54 | 54 | 54 | 54 |
| 8 | 74 | 64 | 57 | 52 | 73 | 63 | 57 | 52 | 62 | 56 | 52 | 61 | 56 | 52 | 60 | 55 | 52 | 50 | 50 | 50 | 50 |
| 9 | 70 | 59 | 53 | 48 | 69 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 46 | 46 | 46 | 46 |
| 10 | 66 | 56 | 49 | 45 | 65 | 55 | 49 | 45 | 54 | 48 | 45 | 53 | 48 | 44 | 53 | 48 | 44 | 43 | 43 | 43 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 170809 |
| 5° | 172061 |
| 10° | 175069 |
| 15° | 182004 |
| 20° | 189641 |
| 25° | 196402 |
| 30° | 193777 |
| 35° | 161445 |
| 40° | 103530 |
| 45° | 51703 |
| 50° | 20520 |
| 55° | 6967 |
| 60° | 1995 |
| 65° | 1427 |
| 70° | 1170 |
| 75° | 1546 |
| 80° | 1168 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 299.0 | 6.2 |
| 10°-20° | 909.6 | 18.9 |
| 20°-30° | 1485.2 | 30.9 |
| 30°-40° | 1455.9 | 30.3 |
| 40°-50° | 558.2 | 11.6 |
| 50°-60° | 81.9 | 1.7 |
| 60°-70° | 12.2 | 0.3 |
| 70°-80° | 6.3 | 0.1 |
| 80°-90° | 1.5 | 0.0 |
| 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° | 2693.7 | 56.0 |
| 0°-40° | 4149.6 | 86.3 |
| 0°-60° | 4789.7 | 99.6 |
| 0°-90° | 4809.7 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4809.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3116 | |
| 5° | 3127 | 299 |
| 15° | 3207 | 910 |
| 25° | 3247 | 1485 |
| 35° | 2412 | 1456 |
| 45° | 667 | 558 |
| 55° | 73 | 82 |
| 65° | 11 | 12 |
| 75° | 7 | 6 |
| 85° | 0 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3115.8 |
| 2.5° | 3108.5 |
| 5° | 3126.7 |
| 7.5° | 3137.7 |
| 10° | 3145.0 |
| 12.5° | 3170.5 |
| 15° | 3206.9 |
| 17.5° | 3236.1 |
| 20° | 3250.7 |
| 22.5° | 3254.2 |
| 25° | 3247.0 |
| 27.5° | 3196.0 |
| 30° | 3061.2 |
| 32.5° | 2806.1 |
| 35° | 2412.4 |
| 37.5° | 1927.7 |
| 40° | 1446.7 |
| 42.5° | 1031.4 |
| 45° | 666.9 |
| 47.5° | 408.2 |
| 50° | 240.6 |
| 52.5° | 138.5 |
| 55° | 72.9 |
| 57.5° | 32.8 |
| 60° | 18.2 |
| 62.5° | 14.5 |
| 65° | 11.0 |
| 67.5° | 11.0 |
| 70° | 7.3 |
| 72.5° | 7.3 |
| 75° | 7.3 |
| 77.5° | 3.7 |
| 80° | 3.7 |
| 82.5° | 3.7 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)