

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: P584482

Luminaire Tested: **HC835D010-HM82555935-81WDBB**

Issue Date: 10/21/2021

Test Information

Test Method: LM-41-14
Report Number: P584482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2109-368-11)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 10/21/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC835D010-HM82555935-81WDBB
Description: HALO COMMERCIAL 8" ROUND, NEW CONSTRUCTION FRAME, WITH 8" WIDE DISTRIBUTION, BLACK BAFFLE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3861.2 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.13
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

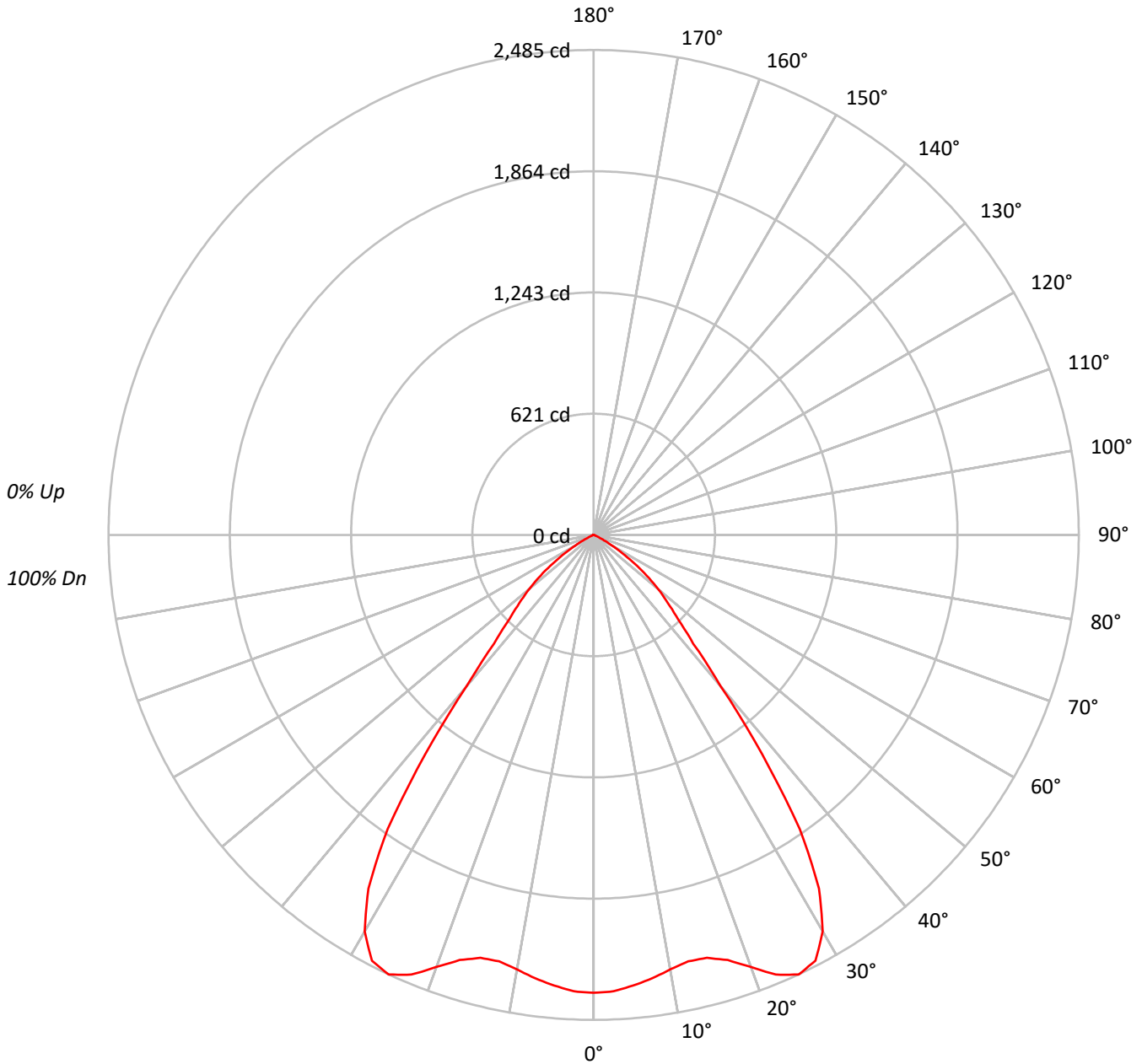
Input Watts (W): 33.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | | | |
| 1 | 113 | 109 | 107 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 95 | 93 | 92 | | | |
| 2 | 106 | 100 | 95 | 92 | 104 | 98 | 94 | 91 | 95 | 92 | 89 | 92 | 89 | 87 | 89 | 87 | 85 | 83 | | | |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 81 | 88 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 75 | | | |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 76 | 71 | 79 | 74 | 71 | 77 | 73 | 70 | 68 | | | |
| 5 | 87 | 77 | 71 | 66 | 85 | 76 | 70 | 65 | 74 | 69 | 65 | 73 | 68 | 64 | 71 | 67 | 63 | 62 | | | |
| 6 | 82 | 71 | 64 | 59 | 80 | 70 | 64 | 59 | 69 | 63 | 59 | 67 | 62 | 58 | 66 | 61 | 58 | 56 | | | |
| 7 | 77 | 66 | 59 | 54 | 75 | 65 | 59 | 54 | 64 | 58 | 54 | 63 | 57 | 53 | 61 | 57 | 53 | 51 | | | |
| 8 | 72 | 61 | 54 | 49 | 71 | 61 | 54 | 49 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 49 | 47 | | | |
| 9 | 68 | 57 | 50 | 45 | 67 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 | | | |
| 10 | 64 | 53 | 46 | 42 | 63 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 45 | 42 | 50 | 45 | 41 | 40 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 72342 |
| 5° | 71742 |
| 10° | 70796 |
| 15° | 71603 |
| 20° | 77323 |
| 25° | 84560 |
| 30° | 83533 |
| 35° | 69292 |
| 40° | 40781 |
| 45° | 26645 |
| 50° | 20657 |
| 55° | 13720 |
| 60° | 6679 |
| 65° | 2072 |
| 70° | 703 |
| 75° | 620 |
| 80° | 462 |
| 85° | 920 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 219.5 | 5.7 |
| 10°-20° | 644.4 | 16.7 |
| 20°-30° | 1126.6 | 29.2 |
| 30°-40° | 1095.9 | 28.4 |
| 40°-50° | 498.4 | 12.9 |
| 50°-60° | 231.1 | 6.0 |
| 60°-70° | 38.7 | 1.0 |
| 70°-80° | 4.8 | 0.1 |
| 80°-90° | 1.8 | 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° | 1990.5 | 51.6 |
| 0°-40° | 3086.4 | 79.9 |
| 0°-60° | 3815.8 | 98.8 |
| 0°-90° | 3861.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3861.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2346 | |
| 5° | 2318 | 219 |
| 15° | 2243 | 644 |
| 25° | 2485 | 1127 |
| 35° | 1841 | 1096 |
| 45° | 611 | 498 |
| 55° | 255 | 231 |
| 65° | 28 | 39 |
| 75° | 5 | 5 |
| 85° | 3 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 2346.0 |
| 2.5° | 2340.9 |
| 5° | 2317.7 |
| 7.5° | 2291.9 |
| 10° | 2261.0 |
| 12.5° | 2237.7 |
| 15° | 2242.9 |
| 17.5° | 2284.1 |
| 20° | 2356.3 |
| 22.5° | 2438.8 |
| 25° | 2485.3 |
| 27.5° | 2459.5 |
| 30° | 2346.0 |
| 32.5° | 2147.5 |
| 35° | 1840.7 |
| 37.5° | 1418.0 |
| 40° | 1013.1 |
| 42.5° | 755.3 |
| 45° | 611.0 |
| 47.5° | 515.6 |
| 50° | 430.6 |
| 52.5° | 342.9 |
| 55° | 255.2 |
| 57.5° | 175.3 |
| 60° | 108.3 |
| 62.5° | 59.3 |
| 65° | 28.4 |
| 67.5° | 12.9 |
| 70° | 7.8 |
| 72.5° | 5.2 |
| 75° | 5.2 |
| 77.5° | 2.6 |
| 80° | 2.6 |
| 82.5° | 2.6 |
| 85° | 2.6 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)