

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: P581985

Luminaire Tested: **HC625D010-HM60525827-61MDW**

Issue Date: 9/16/2021

Test Information

Test Method: LM-41-14
Report Number: P581985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2105-241-6)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC625D010-HM60525827-61MDW
Description: HALO COMMERCIAL 6" ROUND, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2292.3 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 1.08 / 1.03
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

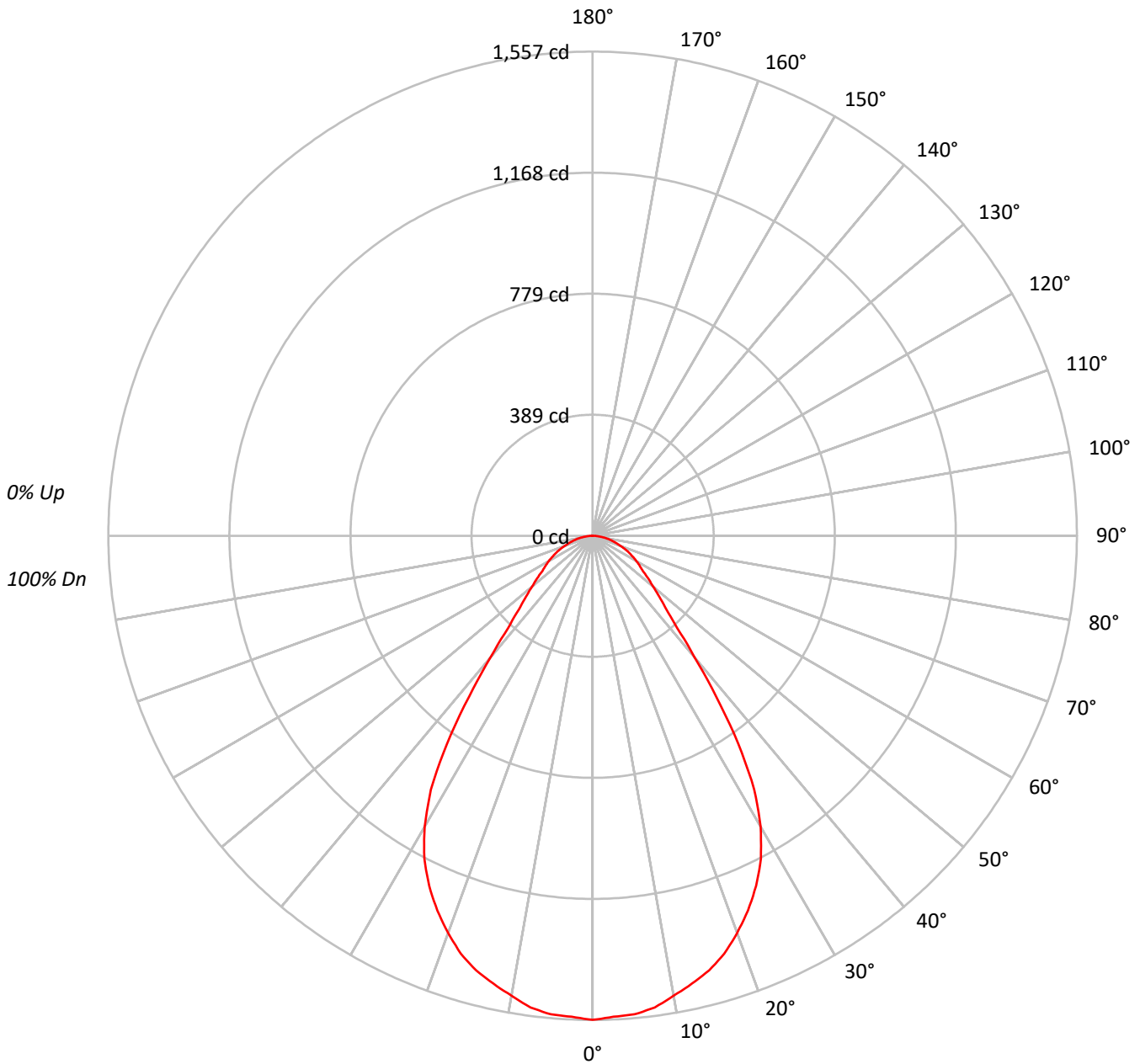
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 |
| 1 | 111 | 108 | 104 | 101 | 109 | 105 | 102 | 100 | 101 | 99 | 96 | 97 | 95 | 94 | 94 | 92 | 91 | 89 | | | 89 |
| 2 | 104 | 97 | 92 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 84 | 89 | 85 | 82 | 86 | 83 | 81 | 79 | | | 79 |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | 70 |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 73 | 67 | 77 | 71 | 67 | 75 | 70 | 66 | 73 | 68 | 65 | 63 | | | 63 |
| 5 | 84 | 74 | 66 | 61 | 82 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 59 | 67 | 63 | 59 | 57 | | | 57 |
| 6 | 79 | 68 | 61 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 55 | 64 | 58 | 54 | 62 | 58 | 54 | 52 | | | 52 |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 61 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | | | 48 |
| 8 | 70 | 58 | 51 | 46 | 69 | 58 | 51 | 46 | 57 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 45 | 44 | | | 44 |
| 9 | 66 | 54 | 47 | 43 | 65 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 40 | | | 40 |
| 10 | 62 | 51 | 44 | 39 | 61 | 50 | 44 | 39 | 49 | 43 | 39 | 49 | 43 | 39 | 48 | 43 | 39 | 37 | | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 85333 |
| 5° | 85015 |
| 10° | 83599 |
| 15° | 82129 |
| 20° | 79288 |
| 25° | 75186 |
| 30° | 68384 |
| 35° | 54643 |
| 40° | 36461 |
| 45° | 25987 |
| 50° | 21654 |
| 55° | 18876 |
| 60° | 17828 |
| 65° | 16785 |
| 70° | 15419 |
| 75° | 14403 |
| 80° | 13101 |
| 85° | 11511 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 146.1 | 6.4 |
| 10°-20° | 406.3 | 17.7 |
| 20°-30° | 567.8 | 24.8 |
| 30°-40° | 500.2 | 21.8 |
| 40°-50° | 270.2 | 11.8 |
| 50°-60° | 180.7 | 7.9 |
| 60°-70° | 128.1 | 5.6 |
| 70°-80° | 72.0 | 3.1 |
| 80°-90° | 21.0 | 0.9 |
| 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° | 1120.2 | 48.9 |
| 0°-40° | 1620.4 | 70.7 |
| 0°-60° | 2071.2 | 90.4 |
| 0°-90° | 2292.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2292.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1557 | |
| 5° | 1545 | 146 |
| 15° | 1447 | 406 |
| 25° | 1243 | 568 |
| 35° | 816 | 500 |
| 45° | 335 | 270 |
| 55° | 198 | 181 |
| 65° | 129 | 128 |
| 75° | 68 | 72 |
| 85° | 18 | 21 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1556.6 |
| 2.5° | 1548.2 |
| 5° | 1544.9 |
| 7.5° | 1530.0 |
| 10° | 1501.8 |
| 12.5° | 1475.3 |
| 15° | 1447.1 |
| 17.5° | 1408.9 |
| 20° | 1359.1 |
| 22.5° | 1304.4 |
| 25° | 1243.0 |
| 27.5° | 1171.6 |
| 30° | 1080.3 |
| 32.5° | 967.4 |
| 35° | 816.5 |
| 37.5° | 652.2 |
| 40° | 509.5 |
| 42.5° | 401.6 |
| 45° | 335.2 |
| 47.5° | 290.4 |
| 50° | 253.9 |
| 52.5° | 224.0 |
| 55° | 197.5 |
| 57.5° | 179.2 |
| 60° | 162.6 |
| 62.5° | 146.0 |
| 65° | 129.4 |
| 67.5° | 112.9 |
| 70° | 96.2 |
| 72.5° | 81.3 |
| 75° | 68.0 |
| 77.5° | 54.8 |
| 80° | 41.5 |
| 82.5° | 29.8 |
| 85° | 18.3 |
| 87.5° | 8.3 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)