

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: P580245

Luminaire Tested: **HC425D010-HM40525940-41WDC**

Issue Date: 9/9/2021

Test Information

Test Method: LM-41-14
Report Number: P580245
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-266-7)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 9/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: HC425D010-HM40525940-41WDC
Description: HALO COMMERCIAL 4" ROUND, NEW CONSTRUCTION FRAME, WITH 4" WIDE DISTRIBUTION, SPECULAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2602.9 lumens
Efficiency: N/A
Efficacy: 97.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.11
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

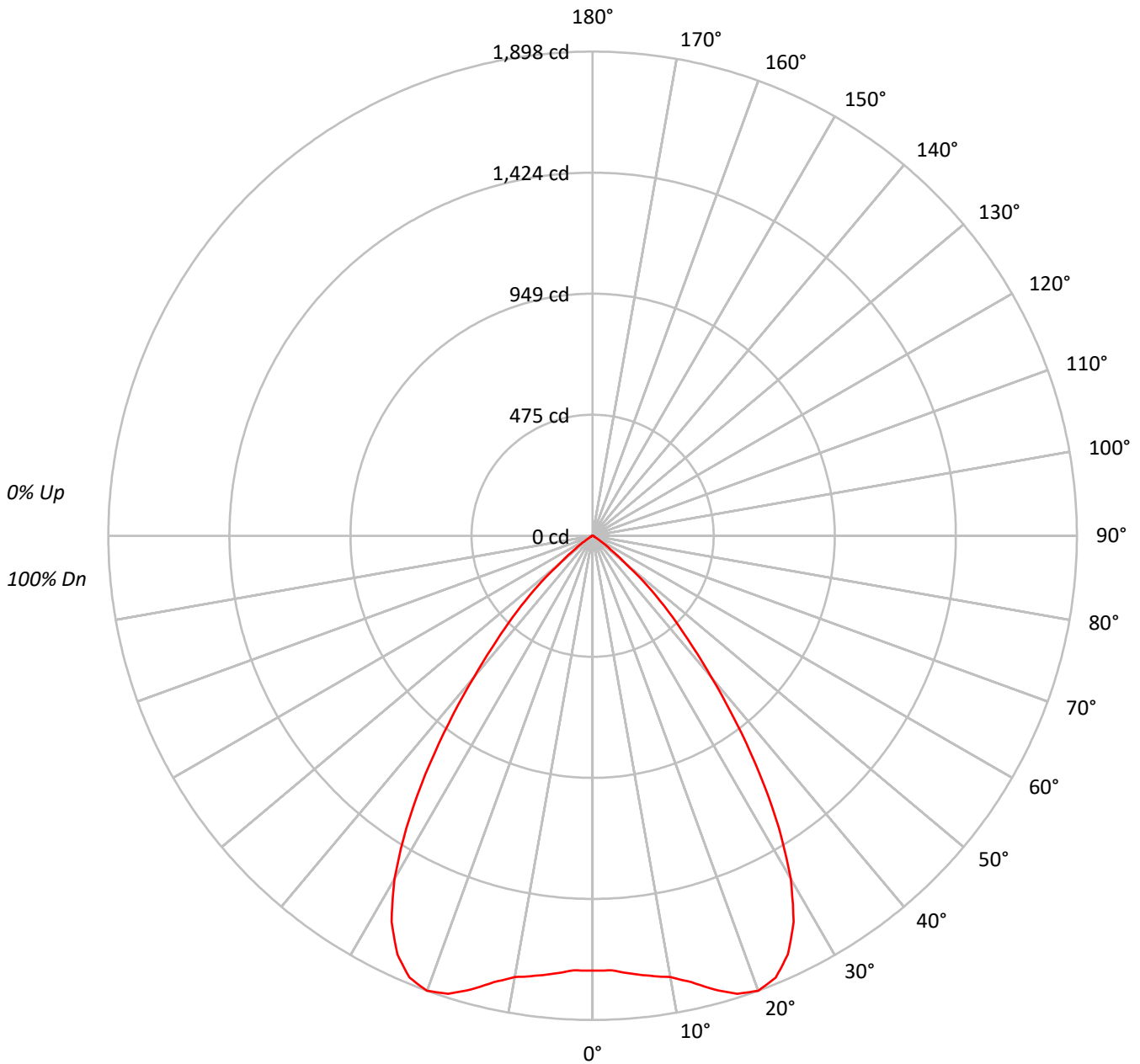
Input Watts (W): 26.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | 96 | 92 | 96 | 93 | 90 | 93 | 91 | 88 | 91 | 88 | 86 | 85 | 85 | 85 | 85 |
| 3 | 101 | 93 | 88 | 84 | 98 | 92 | 87 | 83 | 89 | 85 | 82 | 87 | 83 | 80 | 85 | 82 | 79 | 77 | 77 | 77 | 77 |
| 4 | 95 | 86 | 80 | 76 | 93 | 85 | 79 | 75 | 83 | 78 | 74 | 81 | 77 | 73 | 79 | 75 | 72 | 71 | 71 | 71 | 71 |
| 5 | 89 | 80 | 73 | 69 | 87 | 79 | 73 | 68 | 77 | 72 | 68 | 75 | 71 | 67 | 74 | 70 | 66 | 65 | 65 | 65 | 65 |
| 6 | 84 | 74 | 67 | 63 | 82 | 73 | 67 | 62 | 72 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 60 | 60 | 60 | 60 |
| 7 | 79 | 69 | 62 | 57 | 78 | 68 | 62 | 57 | 67 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 55 | 55 | 55 | 55 |
| 8 | 75 | 64 | 57 | 53 | 73 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 52 | 60 | 56 | 52 | 51 | 51 | 51 | 51 |
| 9 | 70 | 60 | 53 | 49 | 69 | 59 | 53 | 49 | 58 | 53 | 49 | 57 | 52 | 48 | 56 | 52 | 48 | 47 | 47 | 47 | 47 |
| 10 | 67 | 56 | 50 | 45 | 66 | 55 | 49 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 53 | 48 | 45 | 43 | 43 | 43 | 43 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 210267 |
| 5° | 213349 |
| 10° | 220036 |
| 15° | 235128 |
| 20° | 249135 |
| 25° | 246417 |
| 30° | 221161 |
| 35° | 172125 |
| 40° | 116624 |
| 45° | 72810 |
| 50° | 31509 |
| 55° | 10559 |
| 60° | 2640 |
| 65° | 1780 |
| 70° | 1082 |
| 75° | 763 |
| 80° | 1137 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 165.5 | 6.4 |
| 10°-20° | 522.7 | 20.1 |
| 20°-30° | 819.0 | 31.5 |
| 30°-40° | 706.8 | 27.2 |
| 40°-50° | 325.1 | 12.5 |
| 50°-60° | 55.2 | 2.1 |
| 60°-70° | 6.2 | 0.2 |
| 70°-80° | 2.2 | 0.1 |
| 80°-90° | 0.2 | 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° | 1507.2 | 57.9 |
| 0°-40° | 2214.0 | 85.1 |
| 0°-60° | 2594.2 | 99.7 |
| 0°-90° | 2602.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2602.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1705 | |
| 5° | 1723 | 166 |
| 15° | 1841 | 523 |
| 25° | 1811 | 819 |
| 35° | 1143 | 707 |
| 45° | 417 | 325 |
| 55° | 49 | 55 |
| 65° | 6 | 6 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1704.7 |
| 2.5° | 1704.7 |
| 5° | 1723.1 |
| 7.5° | 1740.0 |
| 10° | 1756.8 |
| 12.5° | 1792.2 |
| 15° | 1841.3 |
| 17.5° | 1882.7 |
| 20° | 1898.0 |
| 22.5° | 1875.0 |
| 25° | 1810.6 |
| 27.5° | 1706.3 |
| 30° | 1552.8 |
| 32.5° | 1359.4 |
| 35° | 1143.1 |
| 37.5° | 925.2 |
| 40° | 724.3 |
| 42.5° | 553.9 |
| 45° | 417.4 |
| 47.5° | 293.1 |
| 50° | 164.2 |
| 52.5° | 90.5 |
| 55° | 49.1 |
| 57.5° | 24.5 |
| 60° | 10.7 |
| 62.5° | 7.7 |
| 65° | 6.1 |
| 67.5° | 4.6 |
| 70° | 3.0 |
| 72.5° | 3.0 |
| 75° | 1.6 |
| 77.5° | 1.6 |
| 80° | 1.6 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670245859 / DESKTOP-HRDQ47P





— 0°-180°







(END OF REPORT)