

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

Report Number: E395751

Luminaire Tested: **H7-426/H930**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: E395751
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: H7-426/H930
Description: HALO RECESSED INC - H7 ADJ, CLEAR SPECULAR REFL, 0 DEG TILT
Light Source: 150R40FL, 1900 LUMENS
Ballast/Driver: -

Summary

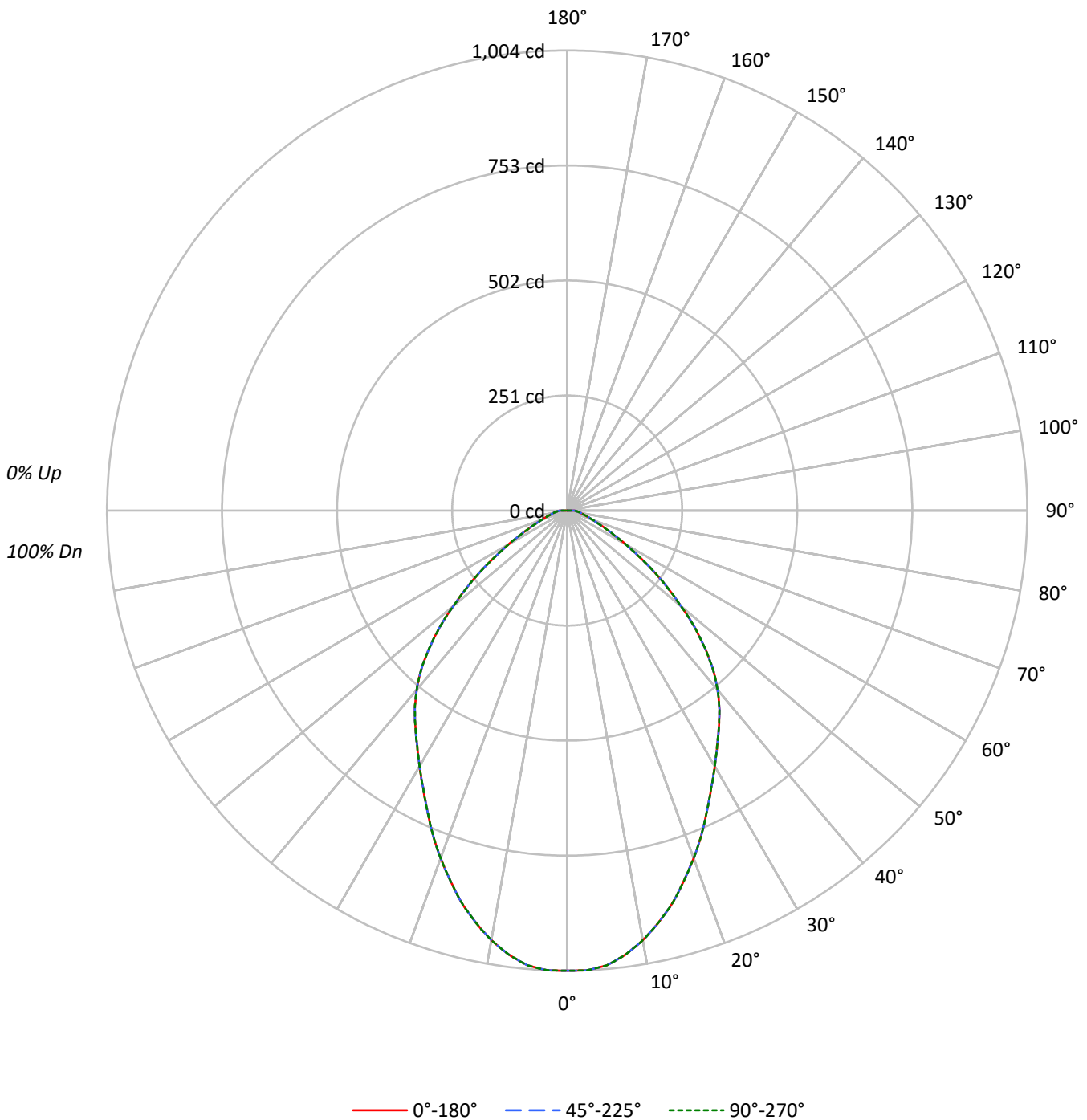
Lumens per Lamp: 1900 (1 lamp)
Luminaire Lumens: 1730.4 lumens
Efficiency: 91.1%
Efficacy: 11.5 lumens/watt
Spacing Criteria (0/90/45): 0.99 / 0.99 / 1.13
Luminous Opening: (L: 0 ' x W: -0.48 ' x H: 0 '
CIE Type: Direct

Input Watts (W): 150
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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 108 | 108 | 108 | 108 | 106 | 106 | 106 | 106 | 101 | 101 | 101 | | 97 | 97 | 97 | | 93 | 93 | 93 | 91 |
| 1 | 101 | 97 | 94 | 91 | 98 | 95 | 92 | 90 | 91 | 89 | 87 | | 88 | 86 | 84 | | 85 | 83 | 82 | 80 |
| 2 | 93 | 87 | 82 | 78 | 91 | 85 | 81 | 77 | 82 | 78 | 75 | | 79 | 76 | 73 | | 77 | 74 | 72 | 70 |
| 3 | 86 | 78 | 72 | 67 | 84 | 77 | 71 | 66 | 74 | 69 | 65 | | 72 | 68 | 64 | | 70 | 66 | 63 | 61 |
| 4 | 80 | 71 | 64 | 59 | 78 | 70 | 63 | 58 | 67 | 62 | 57 | | 65 | 61 | 57 | | 64 | 59 | 56 | 54 |
| 5 | 74 | 64 | 57 | 52 | 73 | 63 | 57 | 51 | 61 | 55 | 51 | | 60 | 55 | 50 | | 58 | 54 | 50 | 48 |
| 6 | 69 | 59 | 51 | 46 | 68 | 58 | 51 | 46 | 56 | 50 | 46 | | 55 | 49 | 45 | | 53 | 49 | 45 | 43 |
| 7 | 65 | 54 | 47 | 42 | 63 | 53 | 46 | 41 | 52 | 46 | 41 | | 50 | 45 | 41 | | 49 | 44 | 41 | 39 |
| 8 | 61 | 49 | 42 | 38 | 59 | 49 | 42 | 38 | 48 | 42 | 37 | | 47 | 41 | 37 | | 46 | 41 | 37 | 35 |
| 9 | 57 | 46 | 39 | 34 | 56 | 45 | 39 | 34 | 44 | 38 | 34 | | 43 | 38 | 34 | | 42 | 37 | 34 | 32 |
| 10 | 54 | 43 | 36 | 32 | 53 | 42 | 36 | 31 | 41 | 35 | 31 | | 40 | 35 | 31 | | 40 | 35 | 31 | 30 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--|-----|------|
| 0° | Luminous shape not found, | | |
| 5° | reference photometric report, or contact | | |
| 10° | the photometric lab for calculations. | | |
| 15° | | | |
| 20° | | | |
| 25° | | | |
| 30° | | | |
| 35° | | | |
| 40° | | | |
| 45° | | | |
| 50° | | | |
| 55° | | | |
| 60° | | | |
| 65° | | | |
| 70° | | | |
| 75° | | | |
| 80° | | | |
| 85° | | | |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10° | 93.6 | 5.4 | 4.9 |
| 10°-20° | 248.4 | 14.4 | 13.1 |
| 20°-30° | 332.7 | 19.2 | 17.5 |
| 30°-40° | 361.1 | 20.9 | 19.0 |
| 40°-50° | 325.9 | 18.8 | 17.2 |
| 50°-60° | 205.6 | 11.9 | 10.8 |
| 60°-70° | 94.0 | 5.4 | 4.9 |
| 70°-80° | 44.7 | 2.6 | 2.4 |
| 80°-90° | 24.4 | 1.4 | 1.3 |
| 90°-100° | 0.0 | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 | 0.0 |
| 110°-120° | 0.0 | 0.0 | 0.0 |
| 120°-130° | 0.0 | 0.0 | 0.0 |
| 130°-140° | 0.0 | 0.0 | 0.0 |
| 140°-150° | 0.0 | 0.0 | 0.0 |
| 150°-160° | 0.0 | 0.0 | 0.0 |
| 160°-170° | 0.0 | 0.0 | 0.0 |
| 170°-180° | 0.0 | 0.0 | 0.0 |
| 0°-30° | 674.7 | 39.0 | 35.5 |
| 0°-40° | 1035.8 | 59.9 | 54.5 |
| 0°-60° | 1567.3 | 90.6 | 82.5 |
| 0°-90° | 1730.4 | 100.0 | 91.1 |
| 90°-120° | 0.0 | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 | 0.0 |
| 0°-180° | 1730.4 | 100.0 | 91.1 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 1004 | 1004 | 1004 | 1004 | 1004 | |
| 5° | 996 | 996 | 996 | 996 | 996 | 94 |
| 15° | 887 | 887 | 887 | 887 | 887 | 248 |
| 25° | 722 | 722 | 722 | 722 | 722 | 333 |
| 35° | 577 | 577 | 577 | 577 | 577 | 361 |
| 45° | 426 | 426 | 426 | 426 | 426 | 326 |
| 55° | 228 | 228 | 228 | 228 | 228 | 206 |
| 65° | 91 | 91 | 91 | 91 | 91 | 94 |
| 75° | 41 | 41 | 41 | 41 | 41 | 45 |
| 85° | 22 | 22 | 22 | 22 | 22 | 24 |
| 90° | 15 | 15 | 15 | 15 | 15 | |



TEST NUMBER: E395751
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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 0° | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 |
| 2.5° | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 | 1004 |
| 5° | 996 | 996 | 996 | 996 | 996 | 996 | 996 | 996 | 996 |
| 7.5° | 977 | 977 | 977 | 977 | 977 | 977 | 977 | 977 | 977 |
| 10° | 952 | 952 | 952 | 952 | 952 | 952 | 952 | 952 | 952 |
| 12.5° | 921 | 921 | 921 | 921 | 921 | 921 | 921 | 921 | 921 |
| 15° | 887 | 887 | 887 | 887 | 887 | 887 | 887 | 887 | 887 |
| 17.5° | 847 | 847 | 847 | 847 | 847 | 847 | 847 | 847 | 847 |
| 20° | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 807 | 807 |
| 22.5° | 766 | 766 | 766 | 766 | 766 | 766 | 766 | 766 | 766 |
| 25° | 722 | 722 | 722 | 722 | 722 | 722 | 722 | 722 | 722 |
| 27.5° | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 | 681 |
| 30° | 644 | 644 | 644 | 644 | 644 | 644 | 644 | 644 | 644 |
| 32.5° | 609 | 609 | 609 | 609 | 609 | 609 | 609 | 609 | 609 |
| 35° | 577 | 577 | 577 | 577 | 577 | 577 | 577 | 577 | 577 |
| 37.5° | 546 | 546 | 546 | 546 | 546 | 546 | 546 | 546 | 546 |
| 40° | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 | 511 |
| 42.5° | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 | 472 |
| 45° | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 | 426 |
| 47.5° | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 | 378 |
| 50° | 324 | 324 | 324 | 324 | 324 | 324 | 324 | 324 | 324 |
| 52.5° | 276 | 276 | 276 | 276 | 276 | 276 | 276 | 276 | 276 |
| 55° | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| 57.5° | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 | 184 |
| 60° | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 | 147 |
| 62.5° | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 |
| 65° | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 | 91 |
| 67.5° | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 |
| 70° | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 | 59 |
| 72.5° | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 |
| 75° | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| 77.5° | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| 80° | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| 82.5° | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 |
| 85° | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 |
| 87.5° | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 | 19 |
| 90° | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |

(END OF REPORT)