

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: P277692

Luminaire Tested: **LT560WH12930**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P277692  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1810-968-9)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: LT560WH12930  
Description: 5/6 INCH LED RETROFIT BAFFLE 90CRI 3000K 1100LM  
PHOTOMETRIC DATA PROVIDED IS BASED ON SPEC SHEET CLAIM  
Light Source: (18) 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

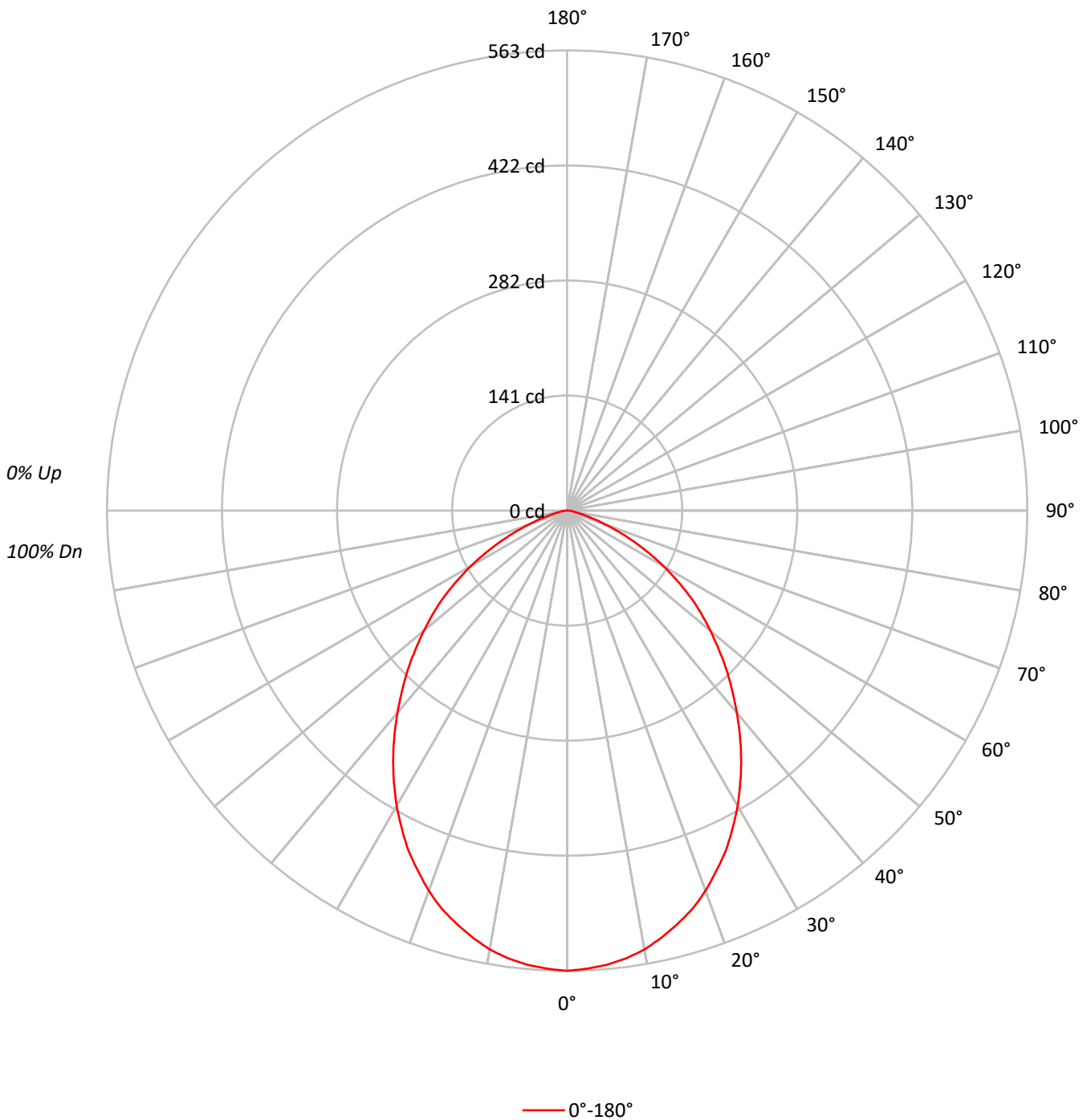
Lumens per Lamp: N/A  
Luminaire Lumens: 1140.0 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Spacing Criteria (0/90/45): 1.12 / 1.12 / 1.2  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.9  
Input Voltage (V): 120  
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   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 98  | 100 | 98  | 95  | 97  | 94  | 93  | 93  | 91  | 90  | 88  |
| 2   | 102 | 95  | 89  | 84  | 100 | 93  | 88  | 83  | 90  | 85  | 82  | 87  | 83  | 80  | 84  | 81  | 78  | 76  |
| 3   | 94  | 85  | 78  | 72  | 92  | 83  | 77  | 72  | 81  | 75  | 70  | 78  | 73  | 69  | 75  | 71  | 68  | 66  |
| 4   | 87  | 76  | 69  | 63  | 85  | 75  | 68  | 62  | 73  | 66  | 61  | 70  | 65  | 61  | 68  | 64  | 60  | 58  |
| 5   | 81  | 69  | 61  | 55  | 79  | 68  | 60  | 55  | 66  | 59  | 54  | 64  | 58  | 53  | 62  | 57  | 53  | 51  |
| 6   | 75  | 63  | 54  | 49  | 73  | 62  | 54  | 48  | 60  | 53  | 48  | 58  | 52  | 48  | 57  | 51  | 47  | 45  |
| 7   | 70  | 57  | 49  | 43  | 68  | 56  | 49  | 43  | 55  | 48  | 43  | 54  | 47  | 43  | 52  | 47  | 42  | 41  |
| 8   | 65  | 52  | 45  | 39  | 64  | 52  | 44  | 39  | 51  | 44  | 39  | 49  | 43  | 39  | 48  | 43  | 38  | 37  |
| 9   | 61  | 48  | 41  | 36  | 60  | 48  | 40  | 35  | 47  | 40  | 35  | 46  | 40  | 35  | 45  | 39  | 35  | 33  |
| 10  | 57  | 45  | 37  | 32  | 56  | 44  | 37  | 32  | 43  | 37  | 32  | 43  | 36  | 32  | 42  | 36  | 32  | 30  |

**AVERAGE LUMINANCE (cd/sqm):**

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 36737 |
| 5°  | 36537 |
| 10° | 36125 |
| 15° | 35338 |
| 20° | 34360 |
| 25° | 33063 |
| 30° | 31437 |
| 35° | 29564 |
| 40° | 27508 |
| 45° | 25446 |
| 50° | 23202 |
| 55° | 20872 |
| 60° | 17785 |
| 65° | 13924 |
| 70° | 9595  |
| 75° | 5546  |
| 80° | 3532  |
| 85° | 3144  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 52.9   | 4.6       |
| 10°-20°   | 147.3  | 12.9      |
| 20°-30°   | 210.8  | 18.5      |
| 30°-40°   | 231.7  | 20.3      |
| 40°-50°   | 212.4  | 18.6      |
| 50°-60°   | 163.4  | 14.3      |
| 60°-70°   | 90.3   | 7.9       |
| 70°-80°   | 26.3   | 2.3       |
| 80°-90°   | 5.0    | 0.4       |
| 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°    | 411.0  | 36.1      |
| 0°-40°    | 642.7  | 56.4      |
| 0°-60°    | 1018.4 | 89.3      |
| 0°-90°    | 1140.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1140.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 563 |      |
| 5°  | 558 | 53   |
| 15° | 523 | 147  |
| 25° | 459 | 211  |
| 35° | 371 | 232  |
| 45° | 276 | 212  |
| 55° | 184 | 163  |
| 65° | 90  | 90   |
| 75° | 22  | 26   |
| 85° | 4   | 5    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°    |       |
|-------|-------|
| 0°    | 563.1 |
| 2.5°  | 561.0 |
| 5°    | 557.9 |
| 7.5°  | 552.6 |
| 10°   | 545.3 |
| 12.5° | 534.8 |
| 15°   | 523.2 |
| 17.5° | 510.7 |
| 20°   | 494.9 |
| 22.5° | 477.1 |
| 25°   | 459.3 |
| 27.5° | 438.3 |
| 30°   | 417.3 |
| 32.5° | 394.3 |
| 35°   | 371.2 |
| 37.5° | 347.1 |
| 40°   | 323.0 |
| 42.5° | 298.8 |
| 45°   | 275.8 |
| 47.5° | 251.7 |
| 50°   | 228.6 |
| 52.5° | 206.6 |
| 55°   | 183.5 |
| 57.5° | 159.4 |
| 60°   | 136.3 |
| 62.5° | 113.2 |
| 65°   | 90.2  |
| 67.5° | 69.2  |
| 70°   | 50.3  |
| 72.5° | 34.6  |
| 75°   | 22.0  |
| 77.5° | 13.6  |
| 80°   | 9.4   |
| 82.5° | 7.3   |
| 85°   | 4.2   |
| 87.5° | 2.1   |
| 90°   | 0.0   |

(END OF REPORT)