

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: 258p109

Luminaire Tested: **H571ICAT-18WCF-5051PS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 258p109  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H571ICAT-18WCF-5051PS  
Description: 5" RECESSED DOWNLIGHT, 18W CF, CONE WITH GLASS FROSTED LENS,  
WHITE SPLAY  
Light Source: ONE - GE - F18TBX/SPX27/4P - 1200 LUMENS - 18 WATTS  
Ballast/Driver: ADVANCE 2518-M1-LS-QS

**Summary**

Lumens per Lamp: 1200 (1 lamp)  
Luminaire Lumens: 436.8 lumens  
Efficiency: 36.4%  
Efficacy: 23.0 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.09 / 1.18  
Luminous Opening: Circular (Dia: 0.4' x H: 0')  
CIE Type: Direct

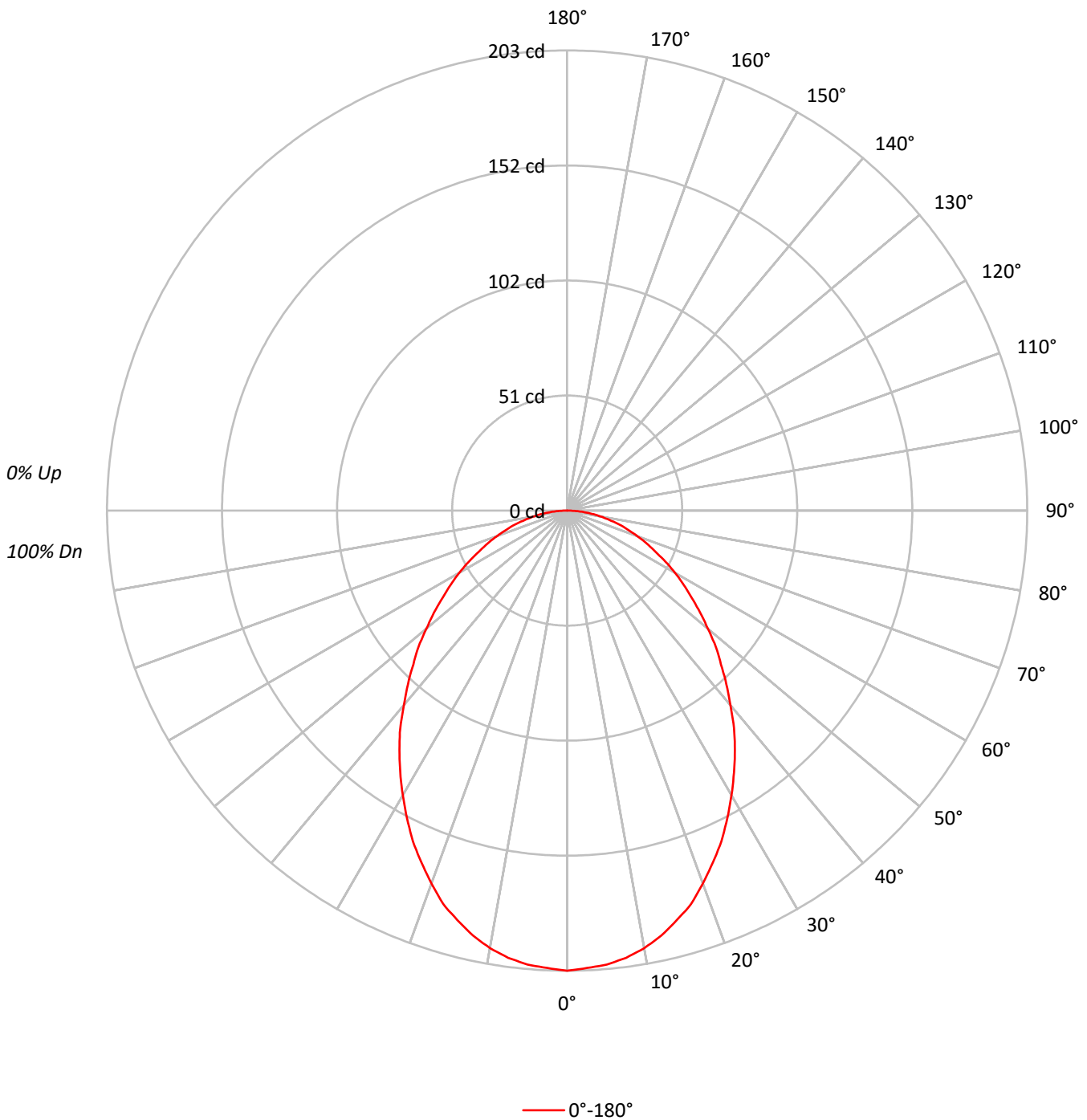
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 43 | 43 | 43 | 43 | 42 | 42 | 42 | 42 | 40 | 40 | 40 | 39 | 39 | 39 | 37 | 37 | 37 | 36 |
| 1   | 40 | 38 | 37 | 35 | 39 | 37 | 36 | 35 | 36 | 35 | 34 | 34 | 34 | 33 | 33 | 32 | 32 | 31 |
| 2   | 36 | 34 | 31 | 29 | 36 | 33 | 31 | 29 | 32 | 30 | 28 | 31 | 29 | 28 | 29 | 28 | 27 | 26 |
| 3   | 33 | 30 | 27 | 25 | 33 | 29 | 27 | 25 | 28 | 26 | 24 | 27 | 25 | 24 | 26 | 25 | 23 | 23 |
| 4   | 31 | 27 | 24 | 21 | 30 | 26 | 23 | 21 | 25 | 23 | 21 | 24 | 22 | 21 | 24 | 22 | 20 | 20 |
| 5   | 28 | 24 | 21 | 19 | 28 | 24 | 21 | 19 | 23 | 20 | 18 | 22 | 20 | 18 | 22 | 20 | 18 | 17 |
| 6   | 26 | 22 | 19 | 16 | 26 | 21 | 19 | 16 | 21 | 18 | 16 | 20 | 18 | 16 | 20 | 18 | 16 | 15 |
| 7   | 25 | 20 | 17 | 15 | 24 | 20 | 17 | 15 | 19 | 16 | 15 | 19 | 16 | 14 | 18 | 16 | 14 | 14 |
| 8   | 23 | 18 | 15 | 13 | 22 | 18 | 15 | 13 | 18 | 15 | 13 | 17 | 15 | 13 | 17 | 15 | 13 | 12 |
| 9   | 22 | 17 | 14 | 12 | 21 | 17 | 14 | 12 | 16 | 14 | 12 | 16 | 14 | 12 | 15 | 13 | 12 | 11 |
| 10  | 20 | 16 | 13 | 11 | 20 | 15 | 13 | 11 | 15 | 13 | 11 | 15 | 12 | 11 | 14 | 12 | 11 | 10 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 17756 |
| 5°  | 17649 |
| 10° | 17408 |
| 15° | 16934 |
| 20° | 16290 |
| 25° | 15538 |
| 30° | 14645 |
| 35° | 13775 |
| 40° | 12789 |
| 45° | 11875 |
| 50° | 11022 |
| 55° | 10217 |
| 60° | 9622  |
| 65° | 8900  |
| 70° | 8440  |
| 75° | 8111  |
| 80° | 7556  |
| 85° | 7025  |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 19.0   | 4.4       | 1.6    |
| 10°-20°   | 52.6   | 12.0      | 4.4    |
| 20°-30°   | 73.9   | 16.9      | 6.2    |
| 30°-40°   | 80.6   | 18.4      | 6.7    |
| 40°-50°   | 74.3   | 17.0      | 6.2    |
| 50°-60°   | 60.3   | 13.8      | 5.0    |
| 60°-70°   | 43.0   | 9.9       | 3.6    |
| 70°-80°   | 25.1   | 5.7       | 2.1    |
| 80°-90°   | 8.0    | 1.8       | 0.7    |
| 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°    | 145.5  | 33.3      | 12.1   |
| 0°-40°    | 226.1  | 51.8      | 18.8   |
| 0°-60°    | 360.7  | 82.6      | 30.1   |
| 0°-90°    | 436.8  | 100.0     | 36.4   |
| 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°   | 436.8  | 100.0     | 36.4   |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 203 |      |
| 5°  | 201 | 19   |
| 15° | 187 | 53   |
| 25° | 161 | 74   |
| 35° | 129 | 81   |
| 45° | 96  | 74   |
| 55° | 67  | 60   |
| 65° | 43  | 43   |
| 75° | 24  | 25   |
| 85° | 7   | 8    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  |
|-------|-----|
| 0°    | 203 |
| 2.5°  | 202 |
| 5°    | 201 |
| 7.5°  | 199 |
| 10°   | 196 |
| 12.5° | 192 |
| 15°   | 187 |
| 17.5° | 182 |
| 20°   | 175 |
| 22.5° | 168 |
| 25°   | 161 |
| 27.5° | 153 |
| 30°   | 145 |
| 32.5° | 137 |
| 35°   | 129 |
| 37.5° | 121 |
| 40°   | 112 |
| 42.5° | 104 |
| 45°   | 96  |
| 47.5° | 89  |
| 50°   | 81  |
| 52.5° | 74  |
| 55°   | 67  |
| 57.5° | 61  |
| 60°   | 55  |
| 62.5° | 49  |
| 65°   | 43  |
| 67.5° | 38  |
| 70°   | 33  |
| 72.5° | 28  |
| 75°   | 24  |
| 77.5° | 19  |
| 80°   | 15  |
| 82.5° | 11  |
| 85°   | 7   |
| 87.5° | 4   |
| 90°   | 0   |

(END OF REPORT)