

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: 258p112

Luminaire Tested: **H571ICAT-18WCF-5021SC**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 258p112  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: H571ICAT-18WCF-5021SC  
Description: 5" OPEN RECESSED DOWNLIGHT, 18W CF, SPECULAR CONE WITH, WHITE  
SPRAY  
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: 587.2 lumens  
Efficiency: 48.9%  
Efficacy: 30.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.22 / 1.2  
Luminous Opening: Circular (Dia: 0.38' x H: 0')  
CIE Type: Direct

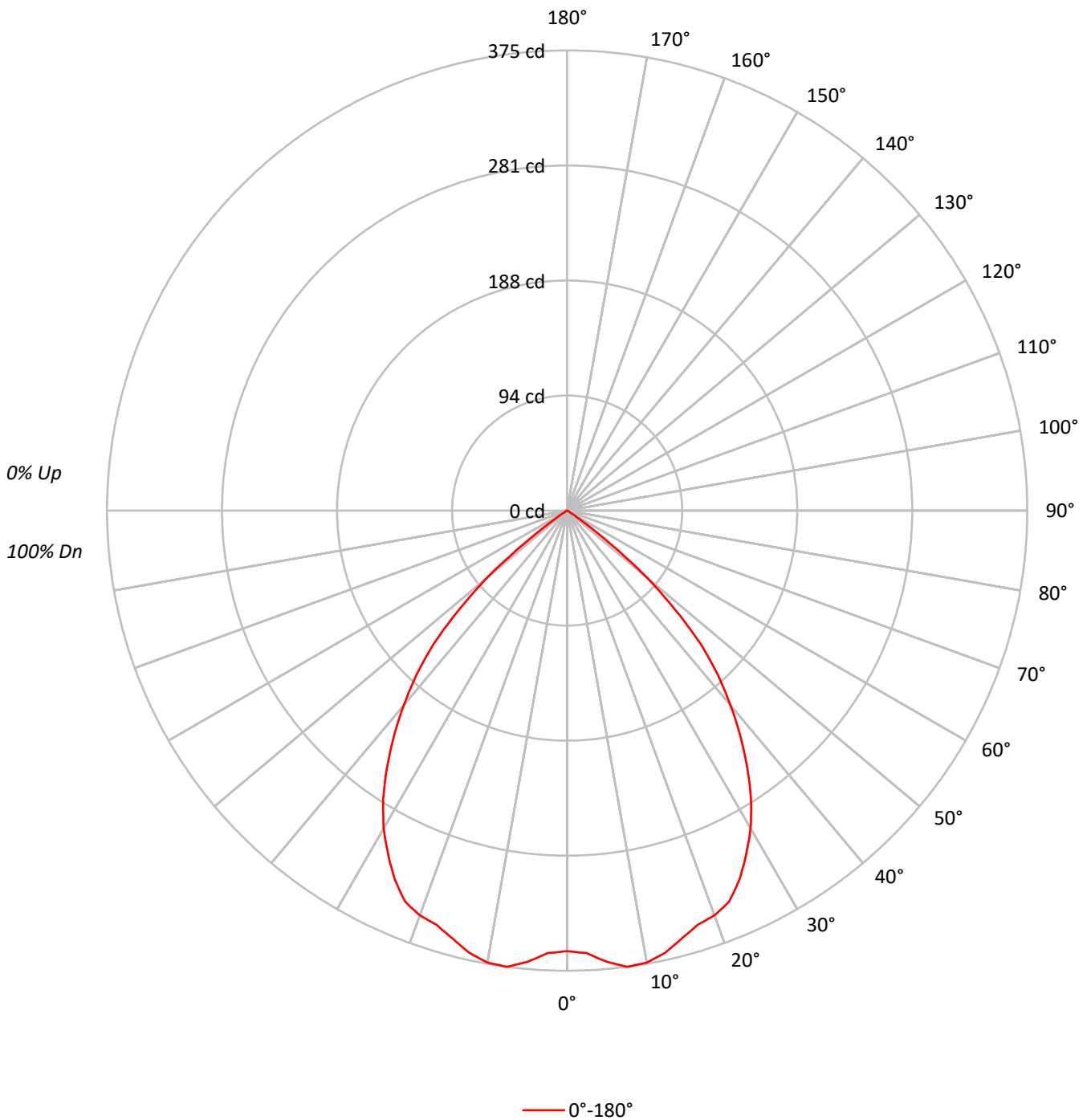
Input Watts (W): 19  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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   | 58 | 58 | 58 | 58 | 57 | 57 | 57 | 57 | 54 | 54 | 54 |  | 52 | 52 | 52 |  | 50 | 50 | 50 | 49 |
| 1   | 55 | 54 | 52 | 51 | 54 | 53 | 51 | 50 | 51 | 50 | 49 |  | 49 | 48 | 47 |  | 47 | 46 | 46 | 45 |
| 2   | 52 | 49 | 47 | 45 | 51 | 48 | 46 | 44 | 47 | 45 | 43 |  | 45 | 44 | 42 |  | 44 | 43 | 42 | 41 |
| 3   | 49 | 45 | 42 | 40 | 48 | 44 | 42 | 40 | 43 | 41 | 39 |  | 42 | 40 | 38 |  | 41 | 39 | 38 | 37 |
| 4   | 46 | 41 | 38 | 36 | 45 | 41 | 38 | 35 | 40 | 37 | 35 |  | 39 | 36 | 35 |  | 38 | 36 | 34 | 33 |
| 5   | 43 | 38 | 35 | 32 | 42 | 37 | 34 | 32 | 36 | 34 | 32 |  | 36 | 33 | 31 |  | 35 | 33 | 31 | 30 |
| 6   | 40 | 35 | 32 | 29 | 39 | 35 | 31 | 29 | 34 | 31 | 29 |  | 33 | 30 | 29 |  | 32 | 30 | 28 | 28 |
| 7   | 38 | 32 | 29 | 26 | 37 | 32 | 29 | 26 | 31 | 28 | 26 |  | 31 | 28 | 26 |  | 30 | 28 | 26 | 25 |
| 8   | 35 | 30 | 26 | 24 | 35 | 30 | 26 | 24 | 29 | 26 | 24 |  | 28 | 26 | 24 |  | 28 | 26 | 24 | 23 |
| 9   | 33 | 28 | 24 | 22 | 33 | 27 | 24 | 22 | 27 | 24 | 22 |  | 27 | 24 | 22 |  | 26 | 24 | 22 | 21 |
| 10  | 31 | 26 | 23 | 20 | 31 | 26 | 22 | 20 | 25 | 22 | 20 |  | 25 | 22 | 20 |  | 24 | 22 | 20 | 19 |

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

|     |       |
|-----|-------|
|     | 0°    |
| 0°  | 34987 |
| 5°  | 36099 |
| 10° | 37012 |
| 15° | 36423 |
| 20° | 36403 |
| 25° | 35701 |
| 30° | 33648 |
| 35° | 30457 |
| 40° | 26335 |
| 45° | 21225 |
| 50° | 12888 |
| 55° | 2379  |
| 60° | 195   |
| 65° | 231   |
| 70° | 285   |
| 75° | 0     |
| 80° | 0     |
| 85° | 0     |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 35.4   | 6.0       | 3.0    |
| 10°-20°   | 102.1  | 17.4      | 8.5    |
| 20°-30°   | 151.8  | 25.8      | 12.6   |
| 30°-40°   | 159.1  | 27.1      | 13.3   |
| 40°-50°   | 115.1  | 19.6      | 9.6    |
| 50°-60°   | 22.6   | 3.9       | 1.9    |
| 60°-70°   | 1.0    | 0.2       | 0.1    |
| 70°-80°   | 0.1    | 0.0       | 0.0    |
| 80°-90°   | 0.0    | 0.0       | 0.0    |
| 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°    | 289.3  | 49.3      | 24.1   |
| 0°-40°    | 448.4  | 76.4      | 37.4   |
| 0°-60°    | 586.0  | 99.8      | 48.8   |
| 0°-90°    | 587.2  | 100.0     | 48.9   |
| 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°   | 587.2  | 100.0     | 48.9   |

**CANDELA DISTRIBUTION:**

|     | 0°  | Flux |
|-----|-----|------|
| 0°  | 359 |      |
| 5°  | 369 | 35   |
| 15° | 361 | 102  |
| 25° | 332 | 152  |
| 35° | 256 | 159  |
| 45° | 154 | 115  |
| 55° | 14  | 23   |
| 65° | 1   | 1    |
| 75° | 0   | 0    |
| 85° | 0   | 0    |
| 90° | 0   |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°  |
|-------|-----|
| 0°    | 359 |
| 2.5°  | 361 |
| 5°    | 369 |
| 7.5°  | 375 |
| 10°   | 374 |
| 12.5° | 369 |
| 15°   | 361 |
| 17.5° | 354 |
| 20°   | 351 |
| 22.5° | 345 |
| 25°   | 332 |
| 27.5° | 316 |
| 30°   | 299 |
| 32.5° | 279 |
| 35°   | 256 |
| 37.5° | 232 |
| 40°   | 207 |
| 42.5° | 182 |
| 45°   | 154 |
| 47.5° | 119 |
| 50°   | 85  |
| 52.5° | 44  |
| 55°   | 14  |
| 57.5° | 3   |
| 60°   | 1   |
| 62.5° | 1   |
| 65°   | 1   |
| 67.5° | 1   |
| 70°   | 1   |
| 72.5° | 0   |
| 75°   | 0   |
| 77.5° | 0   |
| 80°   | 0   |
| 82.5° | 0   |
| 85°   | 0   |
| 87.5° | 0   |
| 90°   | 0   |

(END OF REPORT)