

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge or  
Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: HALO

Report Number: P10839

Luminaire Tested: **L505T670**

Issue Date: 3/3/2020



**Test Information**

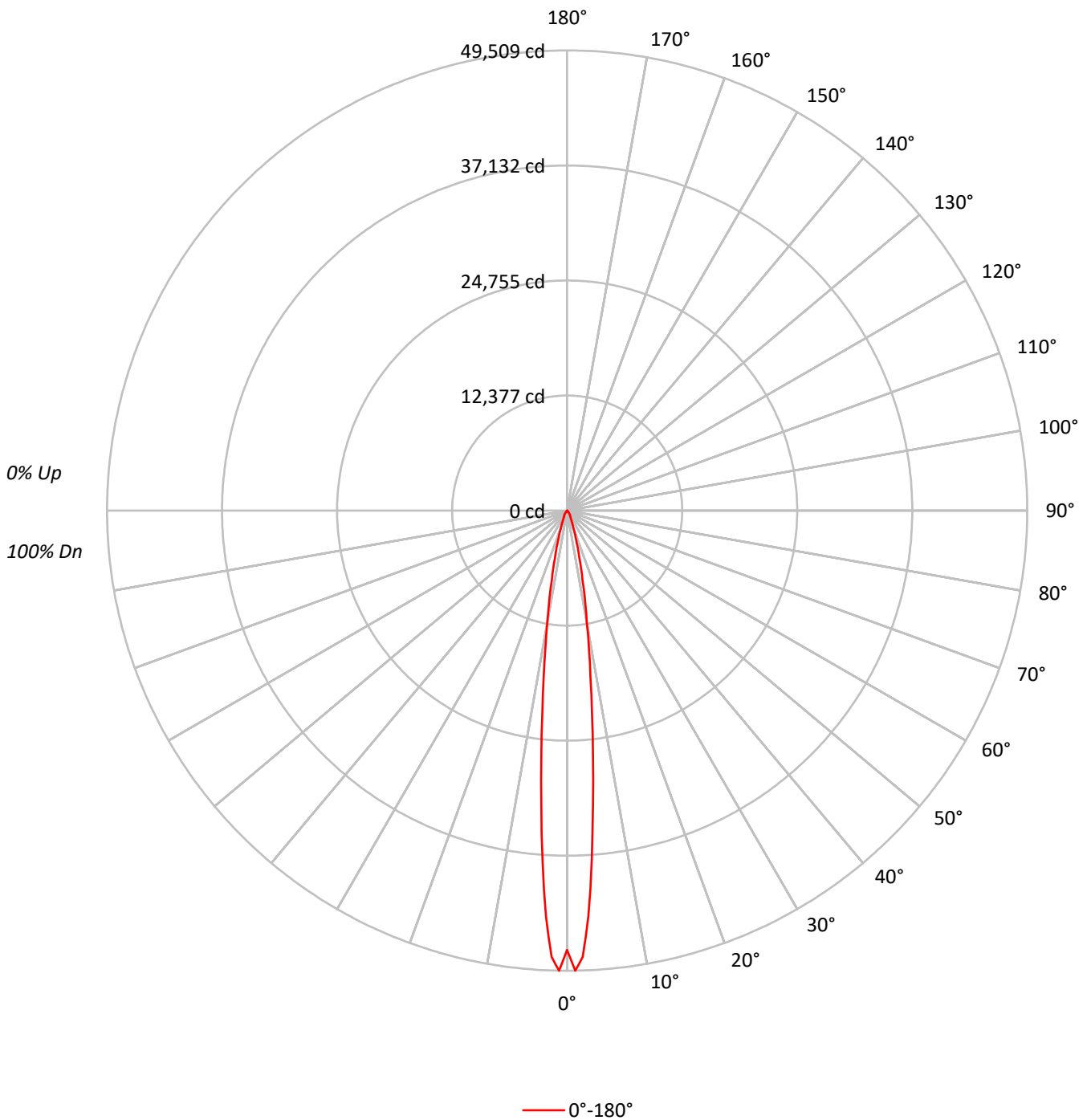
Test Method: LM-46-04  
Report Number: P10839  
Test Lab: PEACHTREE CITY  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L505T670  
Description: STASIS ADJUSTABLE BEAM HID TRACK FIXTURE  
WITH CLEAR GLASS LENS AND IN SPOT POSITION (LCL AT 2.09 INCH FROM  
REFLECTOR'S EDGE)  
Light Source: BI PIN T6 CLEAR CERAMIC METAL HALIDE LAMP  
CMH70/T6/830 70 WATTS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 6600 (1 lamp)  
Luminaire Lumens: 4660.2 lumens  
Efficiency: 70.6%  
Efficacy: 66.6 lumens/watt  
Spacing Criteria (0/90/45): 0.23 / 0.23 / 0.25  
Luminous Opening: Circular (Dia: 0.42' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 70  
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 |    |    |    |    |
| RW  | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 |    |
| RCR |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |
| 0   | 84 | 84 | 84 | 84 | 82 | 82 | 82 | 82 | 78 | 78 | 78 | 75 | 75 | 75 | 72 | 72 | 72 | 71 | 71 | 71 | 71 |
| 1   | 81 | 80 | 79 | 78 | 80 | 78 | 77 | 76 | 76 | 75 | 74 | 73 | 72 | 72 | 71 | 70 | 70 | 69 | 69 | 69 | 69 |
| 2   | 79 | 77 | 75 | 73 | 77 | 75 | 74 | 72 | 73 | 72 | 71 | 71 | 70 | 69 | 69 | 68 | 68 | 67 | 67 | 67 | 67 |
| 3   | 77 | 74 | 71 | 69 | 75 | 73 | 71 | 69 | 71 | 69 | 68 | 69 | 68 | 67 | 68 | 67 | 66 | 66 | 66 | 66 | 66 |
| 4   | 75 | 71 | 68 | 66 | 74 | 70 | 68 | 66 | 69 | 67 | 65 | 68 | 66 | 65 | 66 | 65 | 64 | 63 | 63 | 63 | 63 |
| 5   | 73 | 69 | 66 | 64 | 72 | 68 | 66 | 64 | 67 | 65 | 63 | 66 | 64 | 63 | 65 | 64 | 62 | 62 | 62 | 62 | 62 |
| 6   | 71 | 67 | 64 | 62 | 70 | 66 | 64 | 62 | 65 | 63 | 62 | 65 | 63 | 61 | 64 | 62 | 61 | 60 | 60 | 60 | 60 |
| 7   | 69 | 65 | 62 | 60 | 68 | 65 | 62 | 60 | 64 | 62 | 60 | 63 | 61 | 60 | 63 | 61 | 60 | 59 | 59 | 59 | 59 |
| 8   | 68 | 63 | 61 | 59 | 67 | 63 | 61 | 59 | 62 | 60 | 59 | 62 | 60 | 58 | 61 | 60 | 58 | 58 | 58 | 58 | 58 |
| 9   | 66 | 62 | 59 | 58 | 66 | 62 | 59 | 58 | 61 | 59 | 57 | 61 | 59 | 57 | 60 | 58 | 57 | 57 | 57 | 57 | 57 |
| 10  | 65 | 61 | 58 | 56 | 64 | 60 | 58 | 56 | 60 | 58 | 56 | 60 | 58 | 56 | 59 | 57 | 56 | 56 | 56 | 56 | 56 |

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

|     | 0°      |
|-----|---------|
| 0°  | 3731300 |
| 5°  | 2527517 |
| 10° | 982826  |
| 15° | 384437  |
| 20° | 160622  |
| 25° | 81527   |
| 30° | 56606   |
| 35° | 44908   |
| 40° | 14633   |
| 45° | 7257    |
| 50° | 4544    |
| 55° | 2890    |
| 60° | 2368    |
| 65° | 1868    |
| 70° | 1846    |
| 75° | 1830    |
| 80° | 2273    |
| 85° | 2717    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture | % Lamp |
|-----------|--------|-----------|--------|
| 0°-10°    | 2385.9 | 51.2      | 36.2   |
| 10°-20°   | 1446.8 | 31.0      | 21.9   |
| 20°-30°   | 472.1  | 10.1      | 7.2    |
| 30°-40°   | 259.9  | 5.6       | 3.9    |
| 40°-50°   | 54.7   | 1.2       | 0.8    |
| 50°-60°   | 20.5   | 0.4       | 0.3    |
| 60°-70°   | 10.7   | 0.2       | 0.2    |
| 70°-80°   | 6.7    | 0.1       | 0.1    |
| 80°-90°   | 2.9    | 0.1       | 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°    | 4304.8 | 92.4      | 65.2   |
| 0°-40°    | 4564.7 | 98.0      | 69.2   |
| 0°-60°    | 4639.9 | 99.6      | 70.3   |
| 0°-90°    | 4660.2 | 100.0     | 70.6   |
| 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°   | 4660.2 | 100.0     | 70.6   |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 47267 |      |
| 5°  | 31896 | ###  |
| 15° | 4704  | 1447 |
| 25° | 936   | 472  |
| 35° | 466   | 260  |
| 45° | 65    | 55   |
| 55° | 21    | 20   |
| 65° | 10    | 11   |
| 75° | 6     | 7    |
| 85° | 3     | 3    |
| 90° | 0     |      |



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°    |
|-------|-------|
| 0°    | 47267 |
| 1°    | 49509 |
| 2°    | 48033 |
| 3°    | 43715 |
| 4°    | 37848 |
| 5°    | 31896 |
| 6°    | 26563 |
| 7°    | 21892 |
| 8°    | 18070 |
| 9°    | 14908 |
| 10°   | 12261 |
| 12.5° | 7634  |
| 15°   | 4704  |
| 17.5° | 3011  |
| 20°   | 1912  |
| 22.5° | 1284  |
| 25°   | 936   |
| 27.5° | 736   |
| 30°   | 621   |
| 32.5° | 556   |
| 35°   | 466   |
| 37.5° | 290   |
| 40°   | 142   |
| 42.5° | 82    |
| 45°   | 65    |
| 47.5° | 51    |
| 50°   | 37    |
| 52.5° | 27    |
| 55°   | 21    |
| 57.5° | 18    |
| 60°   | 15    |
| 62.5° | 13    |
| 65°   | 10    |
| 67.5° | 9     |
| 70°   | 8     |
| 72.5° | 7     |
| 75°   | 6     |
| 77.5° | 6     |
| 80°   | 5     |
| 82.5° | 4     |
| 85°   | 3     |
| 87.5° | 1     |
| 90°   | 0     |

(END OF REPORT)