

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: HALO

Report Number: P201182

Luminaire Tested: **L806XHONF8040**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P201182  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23517)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L806XHONF8040  
Description: HALO LED EXTRA HIGH OUTPUT TRACK FIXTURE WITH NARROW FLOOD OPTIC  
  
Light Source: EATON LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

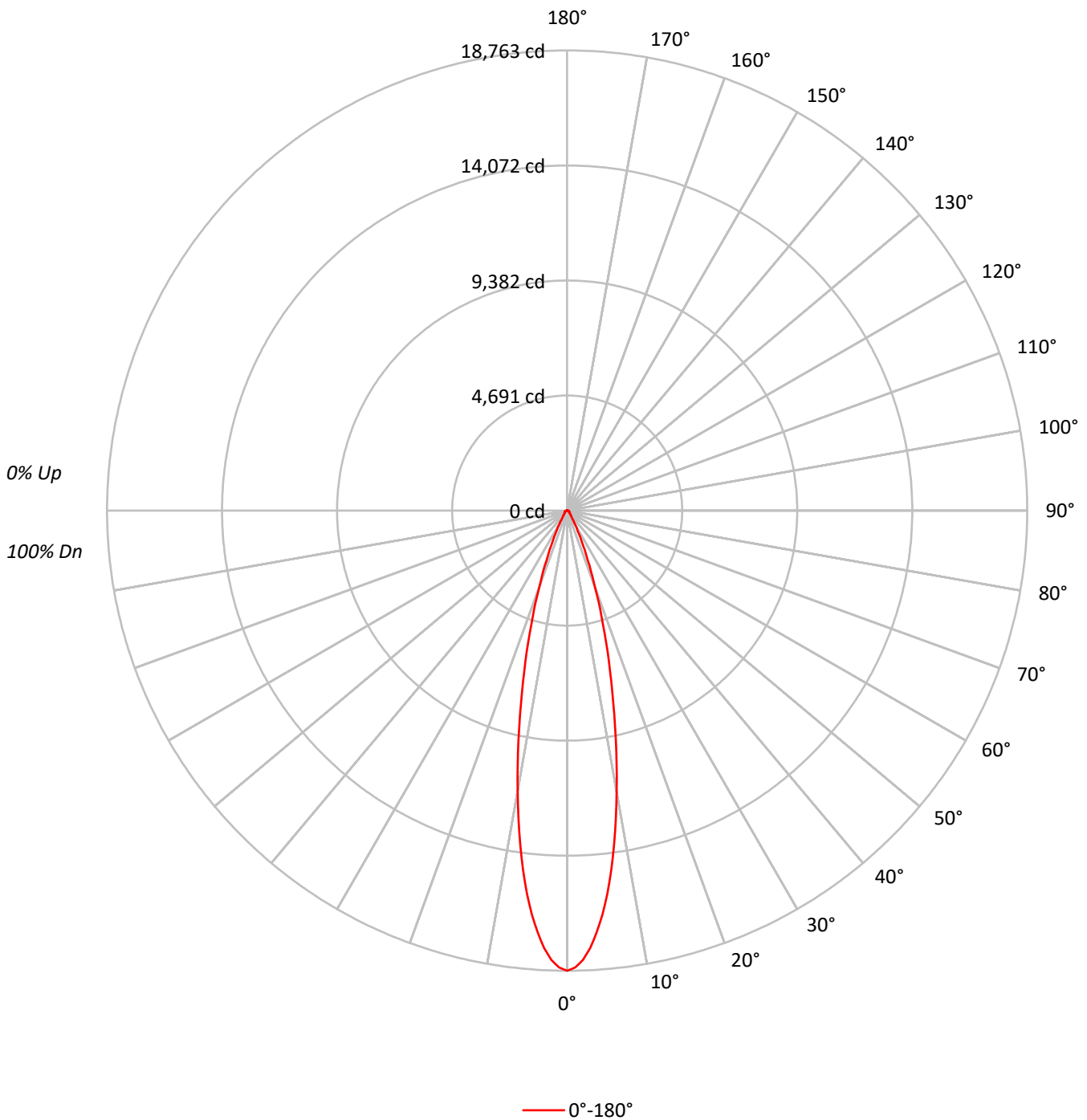
Lumens per Lamp: N/A  
Luminaire Lumens: 4615.5 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Spacing Criteria (0/90/45): 0.41 / 0.41 / 0.43  
Luminous Opening: Circular (Dia: 0.31' x H: 0')  
CIE Type: Direct

Input Watts (W): 47.5  
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



TEST NUMBER: P201182  
CATALOG NUMBER: L806XHONF8040

### Luminous Intensity Polar Plot





TEST NUMBER: P201182

CATALOG NUMBER: L806XHONF8040

**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   | 114 | 111 | 109 | 107 | 112 | 109 | 107 | 105 | 105 | 104 | 102 |  | 102 | 100 | 99  |  | 98  | 97  | 96  | 95  |
| 2   | 109 | 105 | 102 | 99  | 107 | 103 | 100 | 97  | 100 | 98  | 95  |  | 97  | 95  | 93  |  | 95  | 93  | 91  | 90  |
| 3   | 105 | 100 | 95  | 92  | 103 | 98  | 94  | 91  | 96  | 93  | 90  |  | 93  | 91  | 88  |  | 91  | 89  | 87  | 86  |
| 4   | 101 | 95  | 90  | 87  | 100 | 94  | 90  | 86  | 92  | 88  | 85  |  | 90  | 87  | 84  |  | 88  | 86  | 83  | 82  |
| 5   | 98  | 91  | 86  | 83  | 96  | 90  | 86  | 82  | 88  | 85  | 82  |  | 87  | 83  | 81  |  | 85  | 82  | 80  | 79  |
| 6   | 94  | 87  | 82  | 79  | 93  | 87  | 82  | 79  | 85  | 81  | 78  |  | 84  | 80  | 78  |  | 83  | 80  | 77  | 76  |
| 7   | 91  | 84  | 79  | 76  | 90  | 83  | 79  | 76  | 82  | 78  | 75  |  | 81  | 78  | 75  |  | 80  | 77  | 75  | 73  |
| 8   | 89  | 81  | 76  | 73  | 88  | 81  | 76  | 73  | 80  | 76  | 73  |  | 79  | 75  | 72  |  | 78  | 75  | 72  | 71  |
| 9   | 86  | 78  | 74  | 71  | 85  | 78  | 74  | 71  | 77  | 73  | 70  |  | 76  | 73  | 70  |  | 76  | 72  | 70  | 69  |
| 10  | 84  | 76  | 71  | 68  | 83  | 76  | 71  | 68  | 75  | 71  | 68  |  | 74  | 71  | 68  |  | 74  | 70  | 68  | 67  |

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

|     |         |
|-----|---------|
|     | 0°      |
| 0°  | 2633235 |
| 5°  | 2328929 |
| 10° | 1657784 |
| 15° | 980738  |
| 20° | 497323  |
| 25° | 225443  |
| 30° | 102351  |
| 35° | 51431   |
| 40° | 34643   |
| 45° | 32033   |
| 50° | 25392   |
| 55° | 25055   |
| 60° | 27282   |
| 65° | 26499   |
| 70° | 34878   |
| 75° | 33889   |
| 80° | 36449   |
| 85° | 25119   |



TEST NUMBER: P201182  
 CATALOG NUMBER: L806XHONF8040

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1418.0 | 30.7      |
| 10°-20°   | 1863.9 | 40.4      |
| 20°-30°   | 728.1  | 15.8      |
| 30°-40°   | 212.0  | 4.6       |
| 40°-50°   | 123.0  | 2.7       |
| 50°-60°   | 97.5   | 2.1       |
| 60°-70°   | 87.1   | 1.9       |
| 70°-80°   | 58.9   | 1.3       |
| 80°-90°   | 26.9   | 0.6       |
| 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°    | 4010.0 | 86.9      |
| 0°-40°    | 4222.0 | 91.5      |
| 0°-60°    | 4442.5 | 96.3      |
| 0°-90°    | 4615.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 4615.5 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 18763 |      |
| 5°  | 16532 | ###  |
| 15° | 6750  | 1864 |
| 25° | 1456  | 728  |
| 35° | 300   | 212  |
| 45° | 161   | 123  |
| 55° | 102   | 98   |
| 65° | 80    | 87   |
| 75° | 62    | 59   |
| 85° | 16    | 27   |
| 90° | 0     |      |



TEST NUMBER: P201182

CATALOG NUMBER: L806XHONF8040

**CANDELA DISTRIBUTION (FULL):**

| 0°    |         |
|-------|---------|
| 0°    | 18763.3 |
| 1°    | 18633.2 |
| 2°    | 18334.7 |
| 3°    | 17866.2 |
| 4°    | 17245.0 |
| 5°    | 16531.8 |
| 6°    | 15704.1 |
| 7°    | 14775.7 |
| 8°    | 13767.5 |
| 9°    | 12703.8 |
| 10°   | 11633.2 |
| 11°   | 10586.8 |
| 12°   | 9557.8  |
| 13°   | 8534.0  |
| 14°   | 7597.0  |
| 15°   | 6750.2  |
| 17.5° | 4827.5  |
| 20°   | 3330.0  |
| 22.5° | 2210.7  |
| 25°   | 1455.9  |
| 27.5° | 952.7   |
| 30°   | 631.6   |
| 32.5° | 426.9   |
| 35°   | 300.2   |
| 37.5° | 244.7   |
| 40°   | 189.1   |
| 42.5° | 171.8   |
| 45°   | 161.4   |
| 47.5° | 152.7   |
| 50°   | 116.3   |
| 52.5° | 105.9   |
| 55°   | 102.4   |
| 57.5° | 119.7   |
| 60°   | 97.2    |
| 62.5° | 93.7    |
| 65°   | 79.8    |
| 67.5° | 86.8    |
| 70°   | 85.0    |
| 72.5° | 52.1    |
| 75°   | 62.5    |
| 77.5° | 43.4    |
| 80°   | 45.1    |
| 82.5° | 29.5    |
| 85°   | 15.6    |
| 87.5° | 31.2    |



TEST NUMBER: P201182  
CATALOG NUMBER: L806XHONF8040

CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)