

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: P534470

Luminaire Tested: **L808-13-SP-940-MB**

Issue Date: 6/9/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2104-229-2)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 6/9/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L808-13-SP-940-MB  
Description: 3" Track Fixture with Spot Optic  
Light Source: (1) 4000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

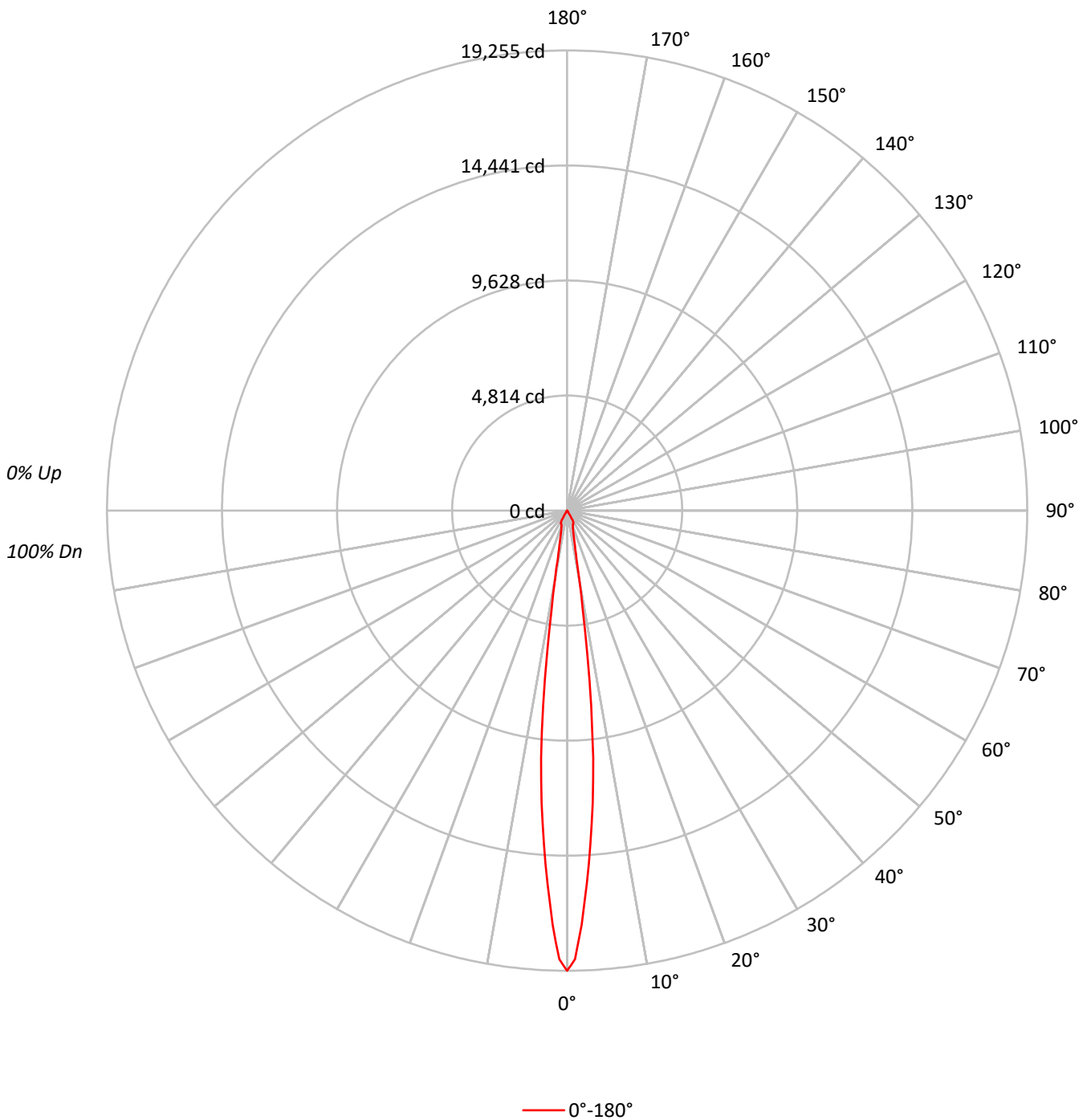
Lumens per Lamp: N/A  
Luminaire Lumens: 1510.1 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.21  
Luminous Opening: Circular (Dia: 0.02' x H: 0')  
CIE Type: Direct

Input Watts (W): 12.7  
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: 24 FT



TEST NUMBER: P534470  
CATALOG NUMBER: L808-13-SP-940-MB

### Luminous Intensity Polar Plot





TEST NUMBER: P534470

CATALOG NUMBER: L808-13-SP-940-MB

**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   | 115 | 113 | 112 | 110 | 113 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99  | 97  |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 104 | 102 | 100 | 101 | 100 | 98  | 99  | 97  | 96  | 95  |
| 3   | 109 | 105 | 101 | 99  | 107 | 103 | 100 | 98  | 101 | 98  | 96  | 99  | 97  | 95  | 97  | 95  | 94  | 92  |
| 4   | 106 | 101 | 98  | 95  | 105 | 100 | 97  | 94  | 98  | 95  | 93  | 96  | 94  | 92  | 95  | 93  | 91  | 90  |
| 5   | 103 | 98  | 94  | 92  | 102 | 97  | 94  | 91  | 96  | 93  | 91  | 94  | 92  | 90  | 93  | 91  | 89  | 88  |
| 6   | 101 | 95  | 92  | 89  | 100 | 95  | 91  | 89  | 93  | 90  | 88  | 92  | 90  | 88  | 91  | 89  | 87  | 86  |
| 7   | 99  | 93  | 89  | 87  | 98  | 92  | 89  | 86  | 91  | 88  | 86  | 90  | 88  | 86  | 89  | 87  | 85  | 84  |
| 8   | 96  | 91  | 87  | 85  | 96  | 90  | 87  | 84  | 89  | 86  | 84  | 89  | 86  | 84  | 88  | 85  | 83  | 83  |
| 9   | 94  | 89  | 85  | 83  | 94  | 88  | 85  | 83  | 88  | 84  | 82  | 87  | 84  | 82  | 86  | 84  | 82  | 81  |
| 10  | 93  | 87  | 83  | 81  | 92  | 86  | 83  | 81  | 86  | 83  | 81  | 85  | 83  | 81  | 85  | 82  | 80  | 80  |

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

|     |           |
|-----|-----------|
|     | 0°        |
| 0°  | 422233714 |
| 5°  | 270481359 |
| 10° | 63986791  |
| 15° | 23064832  |
| 20° | 16001058  |
| 25° | 14635523  |
| 30° | 10290191  |
| 35° | 1027938   |
| 40° | 380713    |
| 45° | 195369    |
| 50° | 133045    |
| 55° | 118514    |
| 60° | 105255    |
| 65° | 124527    |
| 70° | 102581    |
| 75° | 67779     |
| 80° | 101023    |
| 85° | 0         |



TEST NUMBER: P534470

CATALOG NUMBER: L808-13-SP-940-MB

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 843.2  | 55.8      |
| 10°-20°   | 323.0  | 21.4      |
| 20°-30°   | 268.8  | 17.8      |
| 30°-40°   | 63.2   | 4.2       |
| 40°-50°   | 5.7    | 0.4       |
| 50°-60°   | 2.6    | 0.2       |
| 60°-70°   | 2.3    | 0.2       |
| 70°-80°   | 1.2    | 0.1       |
| 80°-90°   | 0.1    | 0.0       |
| 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°    | 1435.1 | 95.0      |
| 0°-40°    | 1498.2 | 99.2      |
| 0°-60°    | 1506.5 | 99.8      |
| 0°-90°    | 1510.1 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 1510.1 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 19255 |      |
| 5°  | 12288 | 843  |
| 15° | 1016  | 323  |
| 25° | 605   | 269  |
| 35° | 38    | 63   |
| 45° | 6     | 6    |
| 55° | 3     | 3    |
| 65° | 2     | 2    |
| 75° | 1     | 1    |
| 85° | 0     | 0    |
| 90° | 0     |      |



TEST NUMBER: P534470

CATALOG NUMBER: L808-13-SP-940-MB

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 19255.4 |
| 1°    | 18776.0 |
| 2°    | 17338.8 |
| 3°    | 15634.8 |
| 4°    | 13968.4 |
| 5°    | 12288.0 |
| 6°    | 10402.0 |
| 7°    | 8217.1  |
| 8°    | 5960.8  |
| 9°    | 4179.9  |
| 10°   | 2873.7  |
| 11°   | 2077.4  |
| 12°   | 1649.9  |
| 13°   | 1364.3  |
| 14°   | 1170.5  |
| 15°   | 1016.0  |
| 17.5° | 793.2   |
| 20°   | 685.7   |
| 22.5° | 632.3   |
| 25°   | 604.9   |
| 27.5° | 565.6   |
| 30°   | 406.4   |
| 32.5° | 160.8   |
| 35°   | 38.4    |
| 37.5° | 20.4    |
| 40°   | 13.3    |
| 42.5° | 9.4     |
| 45°   | 6.3     |
| 47.5° | 5.5     |
| 50°   | 3.9     |
| 52.5° | 3.1     |
| 55°   | 3.1     |
| 57.5° | 2.4     |
| 60°   | 2.4     |
| 62.5° | 2.4     |
| 65°   | 2.4     |
| 67.5° | 2.4     |
| 70°   | 1.6     |
| 72.5° | 1.6     |
| 75°   | 0.8     |
| 77.5° | 0.8     |
| 80°   | 0.8     |
| 82.5° | 0.0     |
| 85°   | 0.0     |
| 87.5° | 0.0     |



TEST NUMBER: P534470

CATALOG NUMBER: L808-13-SP-940-MB

CANDELA DISTRIBUTION (continued):

90° |  $\frac{0^\circ}{0.0}$

(END OF REPORT)