

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: P837177

Luminaire Tested: **L830S23FL927**

Issue Date: 5/17/2024

**Test Information**

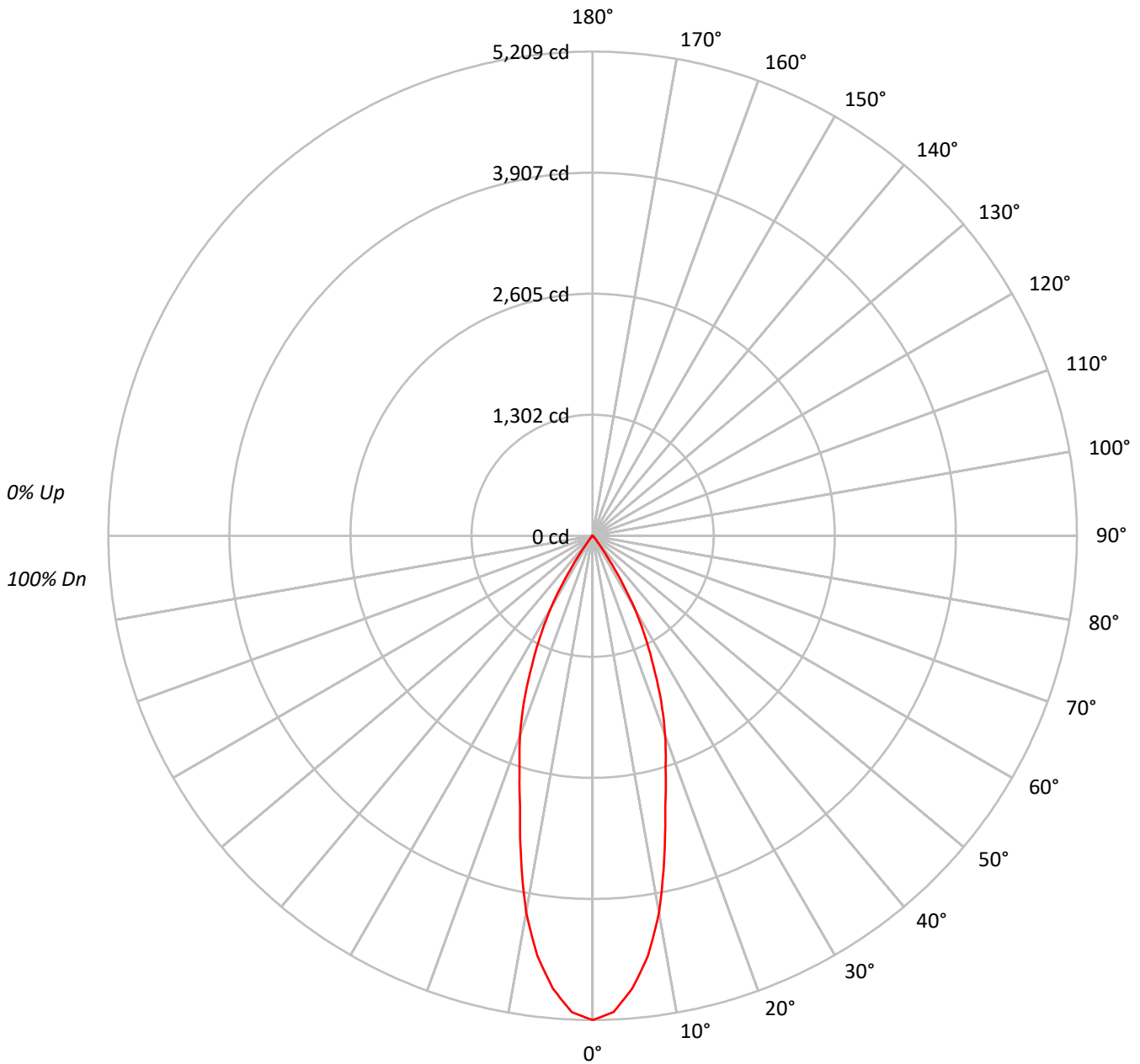
Test Method: LM-79-08  
Report Number: P837177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529-C )  
Test Lab: INNOVATION CENTER  
Issue Date: 5/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L830S23FL927  
Description: Sustainable LED Track Luminaire with Flood Optic and, 2700K, 90CRI LEDs  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2239.0 lumens  
Efficiency: N/A  
Efficacy: 98.2 lumens/watt  
Spacing Criteria (0/90/45): 0.56 / 0.56 / 0.63  
Luminous Opening: Circular (Dia: 0.29' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 22.8  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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  | 50  | 30 | 10 | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |    |    |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |    |    | 100 |
| 1   | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99  | 98  | 97  | 95  |    |    | 95  |
| 2   | 110 | 106 | 102 | 99  | 108 | 104 | 101 | 98  | 101 | 98  | 96  | 98  | 96  | 94  | 95  | 94  | 92  | 91  |    |    | 91  |
| 3   | 105 | 100 | 96  | 92  | 103 | 99  | 95  | 92  | 96  | 93  | 90  | 94  | 91  | 89  | 92  | 89  | 87  | 86  |    |    | 86  |
| 4   | 101 | 95  | 90  | 87  | 100 | 94  | 89  | 86  | 92  | 88  | 85  | 90  | 87  | 84  | 88  | 85  | 83  | 82  |    |    | 82  |
| 5   | 97  | 90  | 85  | 82  | 96  | 89  | 85  | 81  | 88  | 84  | 81  | 86  | 83  | 80  | 85  | 82  | 79  | 78  |    |    | 78  |
| 6   | 93  | 86  | 81  | 77  | 92  | 85  | 81  | 77  | 84  | 80  | 77  | 83  | 79  | 76  | 81  | 78  | 76  | 74  |    |    | 74  |
| 7   | 90  | 82  | 77  | 74  | 89  | 82  | 77  | 73  | 80  | 76  | 73  | 79  | 75  | 73  | 78  | 75  | 72  | 71  |    |    | 71  |
| 8   | 87  | 79  | 74  | 70  | 85  | 78  | 73  | 70  | 77  | 73  | 70  | 76  | 72  | 69  | 75  | 72  | 69  | 68  |    |    | 68  |
| 9   | 83  | 75  | 70  | 67  | 82  | 75  | 70  | 67  | 74  | 70  | 67  | 73  | 69  | 66  | 72  | 69  | 66  | 65  |    |    | 65  |
| 10  | 80  | 72  | 67  | 64  | 79  | 72  | 67  | 64  | 71  | 67  | 64  | 70  | 66  | 64  | 70  | 66  | 64  | 62  |    |    | 62  |

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

|     |        |
|-----|--------|
|     | 0°     |
| 0°  | 839224 |
| 5°  | 790873 |
| 10° | 673285 |
| 15° | 502847 |
| 20° | 390788 |
| 25° | 274833 |
| 30° | 168857 |
| 35° | 50800  |
| 40° | 11230  |
| 45° | 4488   |
| 50° | 2932   |
| 55° | 2219   |
| 60° | 1611   |
| 65° | 1105   |
| 70° | 801    |
| 75° | 622    |
| 80° | 464    |
| 85° | 185    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 442.5  | 19.8      |
| 10°-20°   | 850.5  | 38.0      |
| 20°-30°   | 708.7  | 31.7      |
| 30°-40°   | 207.0  | 9.2       |
| 40°-50°   | 18.8   | 0.8       |
| 50°-60°   | 7.2    | 0.3       |
| 60°-70°   | 3.0    | 0.1       |
| 70°-80°   | 1.1    | 0.1       |
| 80°-90°   | 0.2    | 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°    | 2001.7 | 89.4      |
| 0°-40°    | 2208.7 | 98.6      |
| 0°-60°    | 2234.7 | 99.8      |
| 0°-90°    | 2239.0 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2239.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|      | 0°   | Flux |
|------|------|------|
| 0°   | 5209 |      |
| 5°   | 4890 | 442  |
| 15°  | 3015 | 851  |
| 25°  | 1546 | 709  |
| 35°  | 258  | 207  |
| 45°  | 20   | 19   |
| 55°  | 8    | 7    |
| 65°  | 3    | 3    |
| 75°  | 1    | 1    |
| 85°  | 0    | 0    |
| 90°  | 0    | 0    |
| 95°  | 0    | 0    |
| 105° | 0    | 0    |
| 115° | 0    | 0    |
| 125° | 0    | 0    |
| 135° | 0    | 0    |
| 145° | 0    | 0    |
| 155° | 0    | 0    |
| 165° | 0    | 0    |
| 175° | 0    | 0    |
| 180° | 0    |      |



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**CANDELA DISTRIBUTION (FULL):**

| 0°     |        |
|--------|--------|
| 0°     | 5209.2 |
| 2.5°   | 5129.1 |
| 5°     | 4890.4 |
| 7.5°   | 4555.0 |
| 10°    | 4115.7 |
| 12.5°  | 3556.5 |
| 15°    | 3014.9 |
| 17.5°  | 2611.5 |
| 20°    | 2279.4 |
| 22.5°  | 1925.8 |
| 25°    | 1546.1 |
| 27.5°  | 1221.1 |
| 30°    | 907.7  |
| 32.5°  | 551.0  |
| 35°    | 258.3  |
| 37.5°  | 96.9   |
| 40°    | 53.4   |
| 42.5°  | 32.5   |
| 45°    | 19.7   |
| 47.5°  | 14.6   |
| 50°    | 11.7   |
| 52.5°  | 9.5    |
| 55°    | 7.9    |
| 57.5°  | 6.5    |
| 60°    | 5.0    |
| 62.5°  | 3.7    |
| 65°    | 2.9    |
| 67.5°  | 2.2    |
| 70°    | 1.7    |
| 72.5°  | 1.4    |
| 75°    | 1.0    |
| 77.5°  | 0.8    |
| 80°    | 0.5    |
| 82.5°  | 0.3    |
| 85°    | 0.1    |
| 87.5°  | 0.0    |
| 90°    | 0.0    |
| 92.5°  | 0.0    |
| 95°    | 0.0    |
| 97.5°  | 0.0    |
| 100°   | 0.0    |
| 102.5° | 0.0    |
| 105°   | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|        | 0°  |
|--------|-----|
| 112.5° | 0.0 |
| 115°   | 0.0 |
| 117.5° | 0.0 |
| 120°   | 0.0 |
| 122.5° | 0.0 |
| 125°   | 0.0 |
| 127.5° | 0.0 |
| 130°   | 0.0 |
| 132.5° | 0.0 |
| 135°   | 0.0 |
| 137.5° | 0.0 |
| 140°   | 0.0 |
| 142.5° | 0.0 |
| 145°   | 0.0 |
| 147.5° | 0.0 |
| 150°   | 0.0 |
| 152.5° | 0.0 |
| 155°   | 0.0 |
| 157.5° | 0.0 |
| 160°   | 0.0 |
| 162.5° | 0.0 |
| 165°   | 0.0 |
| 167.5° | 0.0 |
| 170°   | 0.0 |
| 172.5° | 0.0 |
| 175°   | 0.0 |
| 177.5° | 0.0 |
| 180°   | 0.0 |



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— 0°-180°







|        |  |     |
|--------|--|-----|
| 107.5° |  | 0.0 |
| 110°   |  | 0.0 |



(END OF REPORT)