

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: P837179

Luminaire Tested: **L830S23FL935**

Issue Date: 5/17/2024

Test Information

Test Method: LM-79-08
Report Number: P837179
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: L830S23FL935
Description: Sustainable LED Track Luminaire with Flood Optic and, 3500K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

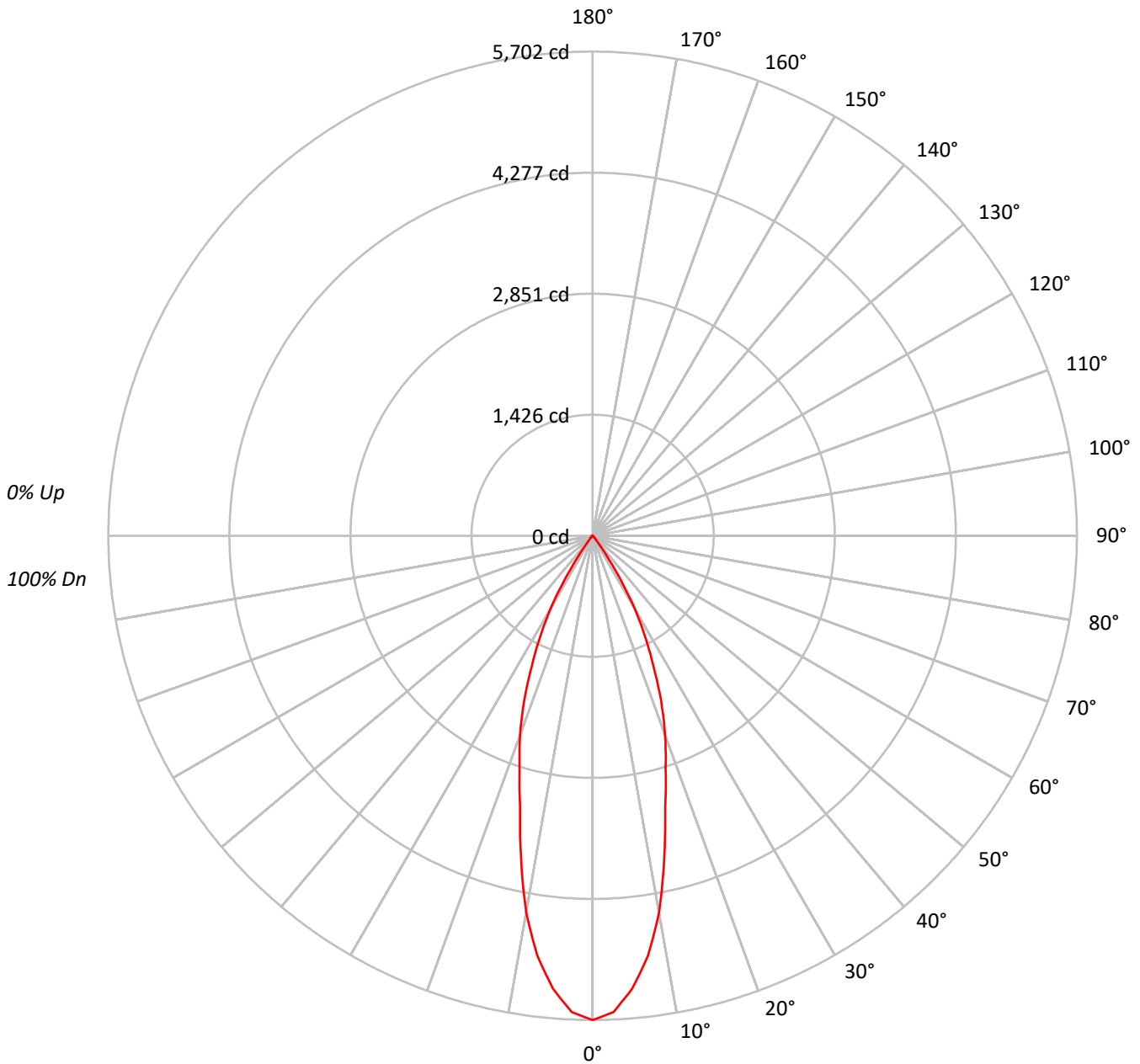
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2451.0 lumens
Efficiency: N/A
Efficacy: 107.5 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_{in}): 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 | 100 | 100 |
| 1 | 114 | 112 | 110 | 108 | 112 | 110 | 108 | 106 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 95 | 95 | 95 | 95 |
| 2 | 110 | 106 | 102 | 99 | 108 | 104 | 101 | 98 | 101 | 98 | 96 | 98 | 96 | 94 | 95 | 94 | 92 | 91 | 91 | 91 | 91 |
| 3 | 105 | 100 | 96 | 92 | 103 | 99 | 95 | 92 | 96 | 93 | 90 | 94 | 91 | 89 | 92 | 89 | 87 | 86 | 86 | 86 | 86 |
| 4 | 101 | 95 | 90 | 87 | 100 | 94 | 89 | 86 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 82 | 82 | 82 | 82 |
| 5 | 97 | 90 | 85 | 82 | 96 | 89 | 85 | 81 | 88 | 84 | 81 | 86 | 83 | 80 | 85 | 82 | 79 | 78 | 78 | 78 | 78 |
| 6 | 93 | 86 | 81 | 77 | 92 | 85 | 81 | 77 | 84 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 76 | 74 | 74 | 74 | 74 |
| 7 | 90 | 82 | 77 | 74 | 89 | 82 | 77 | 73 | 80 | 76 | 73 | 79 | 75 | 73 | 78 | 75 | 72 | 71 | 71 | 71 | 71 |
| 8 | 87 | 79 | 74 | 70 | 85 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 75 | 72 | 69 | 68 | 68 | 68 | 68 |
| 9 | 83 | 75 | 70 | 67 | 82 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 72 | 69 | 66 | 65 | 65 | 65 | 65 |
| 10 | 80 | 72 | 67 | 64 | 79 | 72 | 67 | 64 | 71 | 67 | 64 | 70 | 66 | 64 | 70 | 66 | 64 | 62 | 62 | 62 | 62 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 918680 |
| 5° | 865766 |
| 10° | 737036 |
| 15° | 550465 |
| 20° | 427786 |
| 25° | 300857 |
| 30° | 184836 |
| 35° | 55619 |
| 40° | 12282 |
| 45° | 4898 |
| 50° | 3208 |
| 55° | 2416 |
| 60° | 1772 |
| 65° | 1182 |
| 70° | 895 |
| 75° | 685 |
| 80° | 464 |
| 85° | 185 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 484.4 | 19.8 |
| 10°-20° | 931.1 | 38.0 |
| 20°-30° | 775.8 | 31.7 |
| 30°-40° | 226.6 | 9.2 |
| 40°-50° | 20.6 | 0.8 |
| 50°-60° | 7.8 | 0.3 |
| 60°-70° | 3.3 | 0.1 |
| 70°-80° | 1.2 | 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° | 2191.2 | 89.4 |
| 0°-40° | 2417.8 | 98.6 |
| 0°-60° | 2446.3 | 99.8 |
| 0°-90° | 2451.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2451.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 5702 | |
| 5° | 5354 | 484 |
| 15° | 3300 | 931 |
| 25° | 1692 | 776 |
| 35° | 283 | 227 |
| 45° | 22 | 21 |
| 55° | 9 | 8 |
| 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° | 5702.4 |
| 2.5° | 5614.8 |
| 5° | 5353.5 |
| 7.5° | 4986.3 |
| 10° | 4505.4 |
| 12.5° | 3893.2 |
| 15° | 3300.4 |
| 17.5° | 2858.8 |
| 20° | 2495.2 |
| 22.5° | 2108.1 |
| 25° | 1692.5 |
| 27.5° | 1336.7 |
| 30° | 993.6 |
| 32.5° | 603.2 |
| 35° | 282.8 |
| 37.5° | 106.1 |
| 40° | 58.4 |
| 42.5° | 35.6 |
| 45° | 21.5 |
| 47.5° | 16.0 |
| 50° | 12.8 |
| 52.5° | 10.4 |
| 55° | 8.6 |
| 57.5° | 7.1 |
| 60° | 5.5 |
| 62.5° | 4.1 |
| 65° | 3.1 |
| 67.5° | 2.4 |
| 70° | 1.9 |
| 72.5° | 1.6 |
| 75° | 1.1 |
| 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 |



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°







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



(END OF REPORT)