

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: P837175

Luminaire Tested: **L830S15WF935**

Issue Date: 5/17/2024

Test Information

Test Method: LM-79-08
Report Number: P837175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (1529)
Test Lab: INNOVATION CENTER
Issue Date: 5/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: L830S15WF935
Description: Sustainable LED Track Luminaire with Wide Flood Optic and, 3500K, 90CRI LEDs
Light Source: -
Ballast/Driver: -

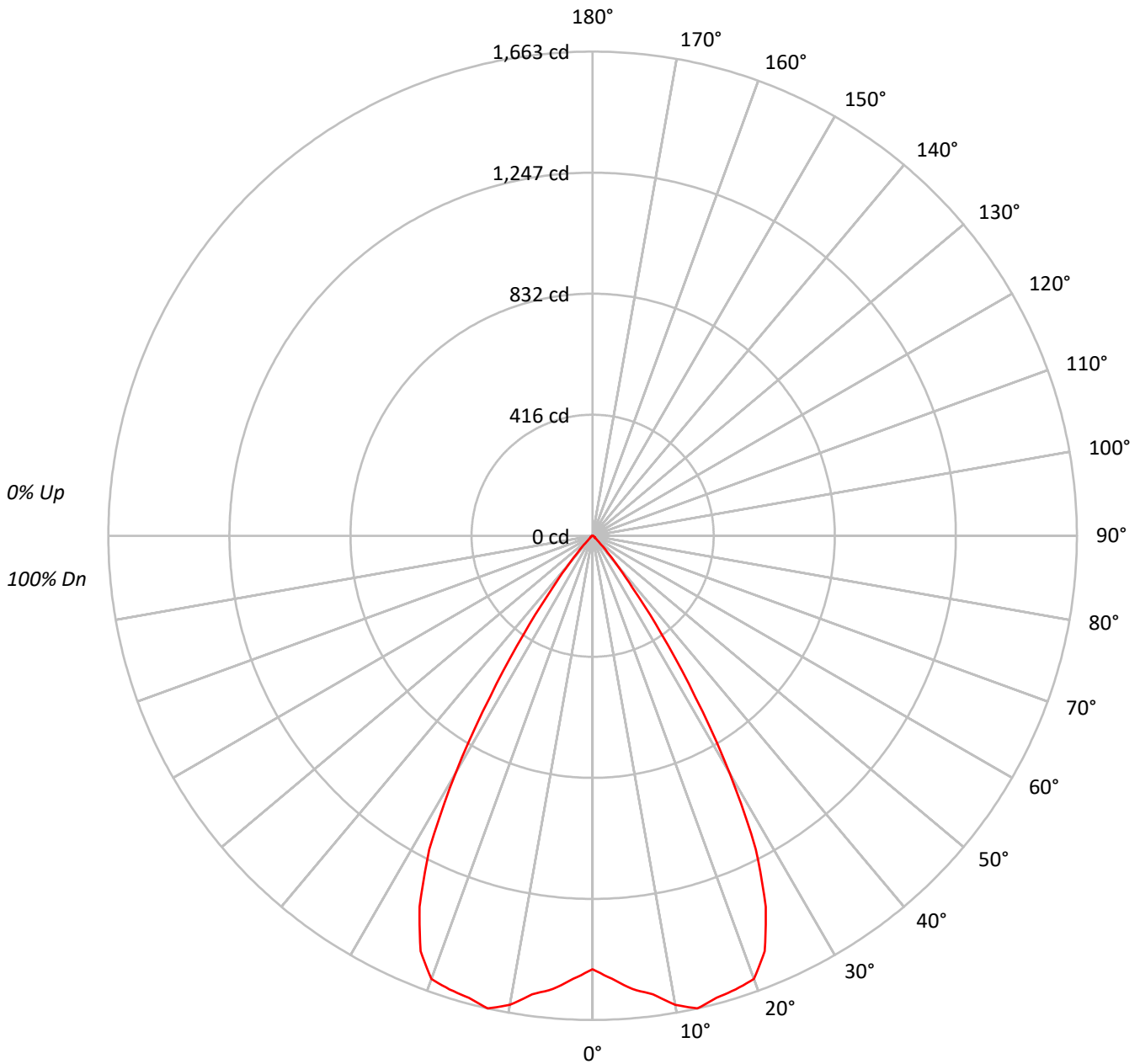
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1558.0 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Spacing Criteria (0/90/45): 1.09 / 1.09 / 0.91
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 15
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 | | | |
| 1 | 114 | 111 | 109 | 107 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 94 | | | |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 99 | 96 | 99 | 96 | 93 | 96 | 94 | 91 | 93 | 91 | 90 | 88 | | | |
| 3 | 103 | 97 | 92 | 89 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | 91 | 88 | 85 | 88 | 86 | 84 | 82 | | | |
| 4 | 98 | 91 | 86 | 82 | 97 | 90 | 85 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 84 | 81 | 78 | 77 | | | |
| 5 | 94 | 86 | 80 | 76 | 92 | 85 | 79 | 76 | 83 | 78 | 75 | 81 | 77 | 74 | 80 | 76 | 74 | 72 | | | |
| 6 | 89 | 81 | 75 | 71 | 88 | 80 | 74 | 70 | 78 | 74 | 70 | 77 | 73 | 69 | 76 | 72 | 69 | 68 | | | |
| 7 | 85 | 76 | 70 | 66 | 84 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 68 | 65 | 72 | 68 | 65 | 64 | | | |
| 8 | 81 | 72 | 66 | 62 | 80 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 61 | 68 | 64 | 61 | 60 | | | |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 61 | 58 | 66 | 61 | 58 | 65 | 61 | 58 | 56 | | | |
| 10 | 74 | 64 | 59 | 55 | 73 | 64 | 58 | 55 | 63 | 58 | 55 | 62 | 58 | 54 | 62 | 57 | 54 | 53 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 239852 |
| 5° | 252735 |
| 10° | 267665 |
| 15° | 274032 |
| 20° | 277687 |
| 25° | 249947 |
| 30° | 175107 |
| 35° | 80793 |
| 40° | 26415 |
| 45° | 6379 |
| 50° | 2857 |
| 55° | 2444 |
| 60° | 1901 |
| 65° | 1144 |
| 70° | 754 |
| 75° | 436 |
| 80° | 464 |
| 85° | 185 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 150.9 | 9.7 |
| 10°-20° | 464.9 | 29.8 |
| 20°-30° | 621.0 | 39.9 |
| 30°-40° | 276.1 | 17.7 |
| 40°-50° | 32.8 | 2.1 |
| 50°-60° | 7.9 | 0.5 |
| 60°-70° | 3.2 | 0.2 |
| 70°-80° | 0.9 | 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° | 1236.8 | 79.4 |
| 0°-40° | 1513.0 | 97.1 |
| 0°-60° | 1553.7 | 99.7 |
| 0°-90° | 1558.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1558.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 1489 | |
| 5° | 1563 | 151 |
| 15° | 1643 | 465 |
| 25° | 1406 | 621 |
| 35° | 411 | 276 |
| 45° | 28 | 33 |
| 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° | 1488.8 |
| 2.5° | 1523.1 |
| 5° | 1562.8 |
| 7.5° | 1588.2 |
| 10° | 1636.2 |
| 12.5° | 1662.7 |
| 15° | 1643.0 |
| 17.5° | 1633.8 |
| 20° | 1619.7 |
| 22.5° | 1544.1 |
| 25° | 1406.1 |
| 27.5° | 1214.1 |
| 30° | 941.3 |
| 32.5° | 655.8 |
| 35° | 410.8 |
| 37.5° | 223.5 |
| 40° | 125.6 |
| 42.5° | 64.9 |
| 45° | 28.0 |
| 47.5° | 14.2 |
| 50° | 11.4 |
| 52.5° | 9.9 |
| 55° | 8.7 |
| 57.5° | 8.2 |
| 60° | 5.9 |
| 62.5° | 3.7 |
| 65° | 3.0 |
| 67.5° | 2.5 |
| 70° | 1.6 |
| 72.5° | 0.9 |
| 75° | 0.7 |
| 77.5° | 0.6 |
| 80° | 0.5 |
| 82.5° | 0.3 |
| 85° | 0.1 |
| 87.5° | 0.1 |
| 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)