

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: P184056

Luminaire Tested: **L80825SP9027P**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P184056  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P26995)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: HALO  
Catalog Number: L80825SP9027P  
Description: HALO TRACK L LED 08, 2500 LM, SPOT, WHITE  
  
Light Source: EATON LED 2700K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2226.0 lumens  
Efficiency: N/A  
Efficacy: 63.8 lumens/watt  
Spacing Criteria (0/90/45): 0.2 / 0.2 / 0.21  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

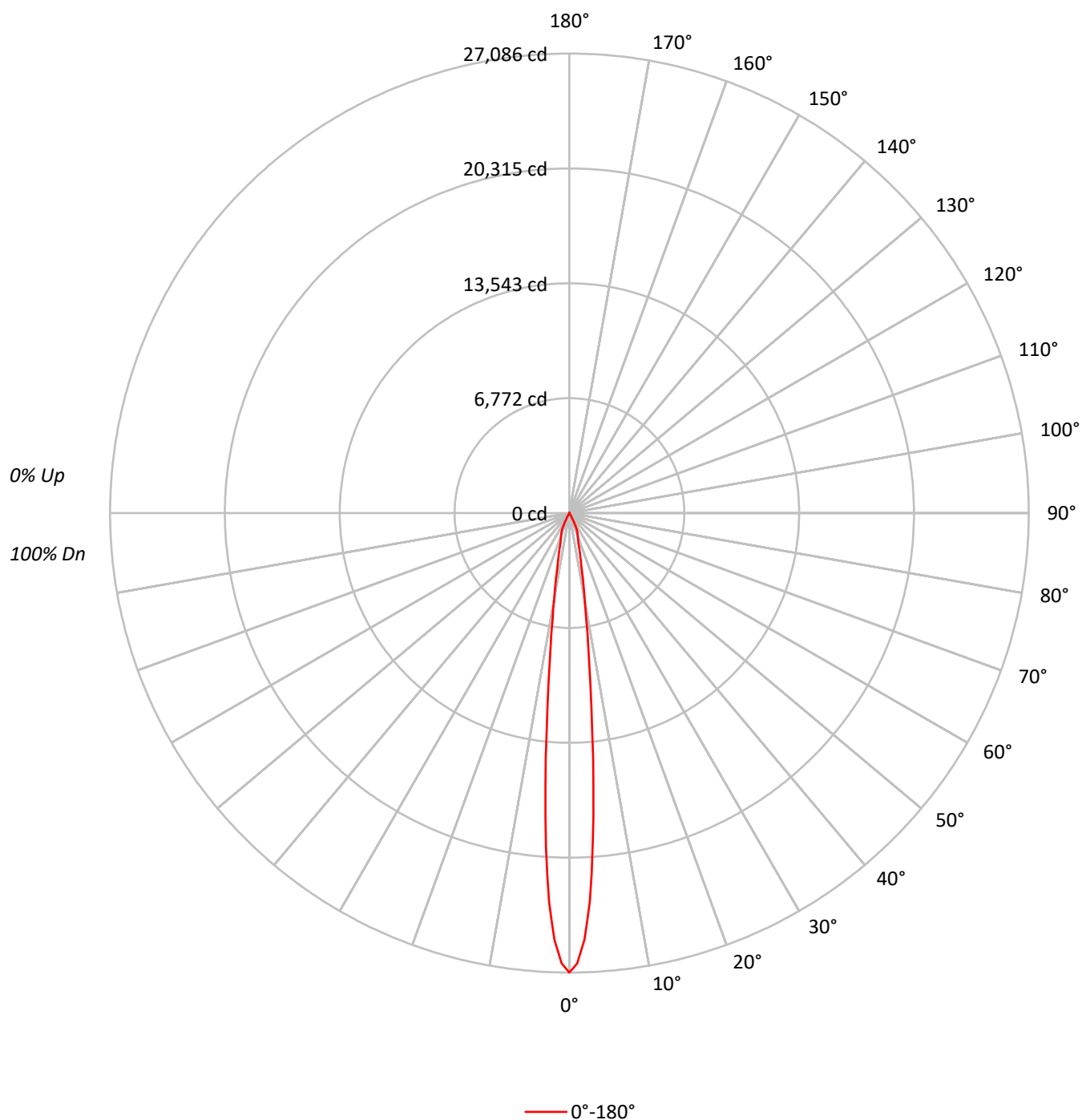
Input Watts (W): 34.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P184056

CATALOG NUMBER: L80825SP9027P

### Luminous Intensity Polar Plot



TEST NUMBER: P184056

CATALOG NUMBER: L80825SP9027P

### COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |  |    |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|--|----|
| RF  | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |     |     | 20  |     |     |  |  | 20 |
| RC  | 80  |     |     |     |     | 70  |     |     |     |     | 50  |     |     |     |     | 30  |     |     |  |  | 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 | 114 | 112 | 110 | 113 | 111 | 110 | 109 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99  | 98  |  |  |    |
| 2   | 112 | 109 | 106 | 104 | 110 | 107 | 105 | 103 | 104 | 102 | 101 | 101 | 100 | 99  | 99  | 98  | 97  | 95  |  |  |    |
| 3   | 109 | 105 | 102 | 99  | 108 | 104 | 101 | 99  | 101 | 99  | 97  | 99  | 97  | 96  | 97  | 96  | 94  | 93  |  |  |    |
| 4   | 106 | 102 | 98  | 96  | 105 | 101 | 98  | 95  | 99  | 96  | 94  | 97  | 95  | 93  | 95  | 93  | 92  | 91  |  |  |    |
| 5   | 104 | 99  | 95  | 92  | 103 | 98  | 95  | 92  | 96  | 94  | 91  | 95  | 93  | 91  | 94  | 92  | 90  | 89  |  |  |    |
| 6   | 101 | 96  | 92  | 90  | 100 | 95  | 92  | 90  | 94  | 91  | 89  | 93  | 90  | 88  | 92  | 90  | 88  | 87  |  |  |    |
| 7   | 99  | 94  | 90  | 88  | 98  | 93  | 90  | 87  | 92  | 89  | 87  | 91  | 88  | 87  | 90  | 88  | 86  | 85  |  |  |    |
| 8   | 97  | 91  | 88  | 85  | 96  | 91  | 88  | 85  | 90  | 87  | 85  | 89  | 87  | 85  | 89  | 86  | 84  | 84  |  |  |    |
| 9   | 95  | 89  | 86  | 84  | 94  | 89  | 86  | 83  | 88  | 85  | 83  | 88  | 85  | 83  | 87  | 85  | 83  | 82  |  |  |    |
| 10  | 93  | 88  | 84  | 82  | 93  | 87  | 84  | 82  | 87  | 84  | 82  | 86  | 83  | 81  | 85  | 83  | 81  | 81  |  |  |    |

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

|     | 0°      |
|-----|---------|
| 0°  | 3340927 |
| 5°  | 2007664 |
| 10° | 649614  |
| 15° | 294443  |
| 20° | 188479  |
| 25° | 118255  |
| 30° | 20510   |
| 35° | 903     |
| 40° | 161     |
| 45° | 698     |
| 50° | 1151    |
| 55° | 0       |
| 60° | 0       |
| 65° | 584     |
| 70° | 0       |
| 75° | 0       |
| 80° | 0       |
| 85° | 0       |



TEST NUMBER: P184056

CATALOG NUMBER: L80825SP9027P

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 1157.3 | 52.0      |
| 10°-20°   | 690.5  | 31.0      |
| 20°-30°   | 358.4  | 16.1      |
| 30°-40°   | 15.7   | 0.7       |
| 40°-50°   | 1.7    | 0.1       |
| 50°-60°   | 0.9    | 0.0       |
| 60°-70°   | 0.5    | 0.0       |
| 70°-80°   | 0.5    | 0.0       |
| 80°-90°   | 1.1    | 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°    | 2206.2 | 99.1      |
| 0°-40°    | 2221.9 | 99.8      |
| 0°-60°    | 2224.4 | 99.9      |
| 0°-90°    | 2226.5 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 2226.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | Flux |
|-----|-------|------|
| 0°  | 27086 |      |
| 5°  | 16215 | ###  |
| 15° | 2306  | 691  |
| 25° | 869   | 358  |
| 35° | 6     | 16   |
| 45° | 4     | 2    |
| 55° | 0     | 1    |
| 65° | 2     | 0    |
| 75° | 0     | 1    |
| 85° | 0     | 1    |
| 90° | 0     |      |



TEST NUMBER: P184056

CATALOG NUMBER: L80825SP9027P

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      |
|-------|---------|
| 0°    | 27085.9 |
| 1°    | 26552.0 |
| 2°    | 25171.1 |
| 3°    | 22932.2 |
| 4°    | 19720.5 |
| 5°    | 16214.8 |
| 6°    | 12849.0 |
| 7°    | 10085.2 |
| 8°    | 7980.4  |
| 9°    | 6352.5  |
| 10°   | 5186.6  |
| 11°   | 4285.7  |
| 12°   | 3609.7  |
| 13°   | 3075.8  |
| 14°   | 2675.8  |
| 15°   | 2305.8  |
| 16°   | 2008.8  |
| 17°   | 1802.9  |
| 18°   | 1640.9  |
| 19°   | 1513.9  |
| 20°   | 1435.9  |
| 21°   | 1342.9  |
| 22°   | 1269.9  |
| 23°   | 1192.9  |
| 24°   | 1052.9  |
| 25°   | 868.9   |
| 26°   | 670.9   |
| 27°   | 489.0   |
| 28°   | 323.0   |
| 29°   | 196.0   |
| 30°   | 144.0   |
| 32.5° | 29.0    |
| 35°   | 6.0     |
| 37.5° | 1.0     |
| 40°   | 1.0     |
| 42.5° | 1.0     |
| 45°   | 4.0     |
| 47.5° | 0.0     |
| 50°   | 6.0     |
| 52.5° | 1.0     |
| 55°   | 0.0     |
| 57.5° | 0.0     |
| 60°   | 0.0     |
| 62.5° | 0.0     |
| 65°   | 2.0     |



TEST NUMBER: P184056

CATALOG NUMBER: L80825SP9027P

**CANDELA DISTRIBUTION (continued):**

|       | 0°  |
|-------|-----|
| 67.5° | 0.0 |
| 70°   | 0.0 |
| 72.5° | 2.0 |
| 75°   | 0.0 |
| 77.5° | 0.0 |
| 80°   | 0.0 |
| 82.5° | 0.0 |
| 85°   | 0.0 |
| 87.5° | 2.0 |
| 90°   | 0.0 |

(END OF REPORT)