

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: P579350

Luminaire Tested: **SMD6R129SWH-EM - 5000K**

Issue Date: 11/18/2021

Test Information

Test Method: LM-79-08
Report Number: P579350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2112530E001)
Test Lab:
Issue Date: 11/18/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R129SWH-EM - 5000K
Description: SMD SELECTABLE CCT 5000K
Light Source: SELECTABLE CCT LED 90CRI / 5000K CCT
Ballast/Driver: -

Summary

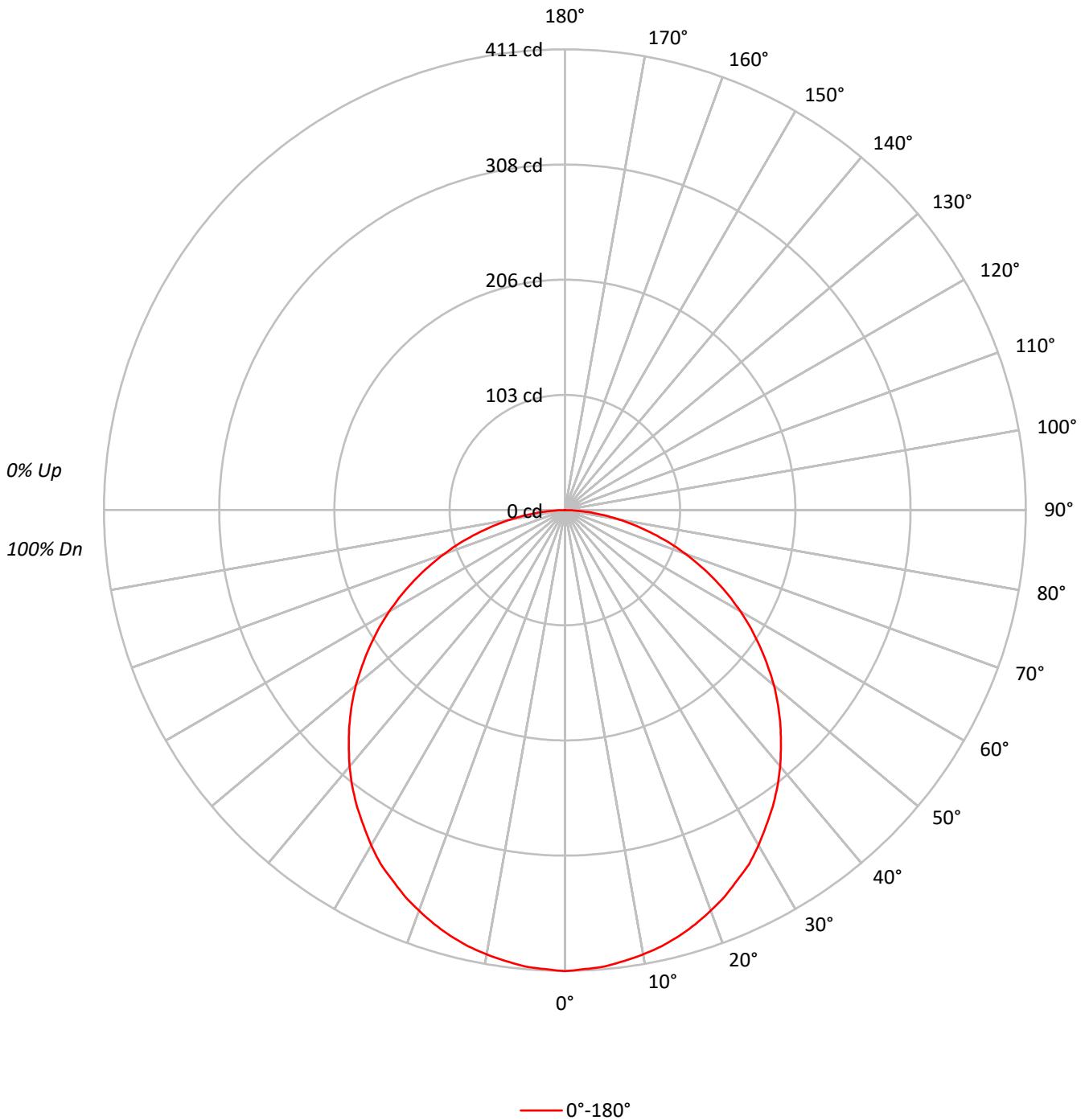
Lumens per Lamp: N/A
Luminaire Lumens: 1176.3 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 18.2
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



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | 93 | 91 | 88 | 90 | 87 | 85 | 83 |
| 2 | 99 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 75 | 81 | 77 | 73 | 78 | 75 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 64 | 74 | 68 | 62 | 72 | 66 | 61 | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 69 | 60 | 54 | 66 | 59 | 53 | 64 | 57 | 52 | 62 | 56 | 52 | 49 |
| 5 | 75 | 62 | 53 | 47 | 73 | 61 | 53 | 46 | 59 | 52 | 46 | 57 | 51 | 45 | 55 | 50 | 45 | 43 |
| 6 | 70 | 56 | 47 | 41 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | 52 | 45 | 40 | 50 | 44 | 39 | 37 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 35 | 47 | 40 | 35 | 46 | 40 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 59 | 46 | 38 | 32 | 44 | 37 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 29 |
| 9 | 56 | 43 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | 40 | 33 | 28 | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | 37 | 30 | 26 | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 22548 |
| 5° | 22491 |
| 10° | 22406 |
| 15° | 22327 |
| 20° | 22186 |
| 25° | 22017 |
| 30° | 21858 |
| 35° | 21623 |
| 40° | 21369 |
| 45° | 21072 |
| 50° | 20758 |
| 55° | 20310 |
| 60° | 19823 |
| 65° | 19198 |
| 70° | 18401 |
| 75° | 17305 |
| 80° | 15722 |
| 85° | 13209 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 38.8 | 3.3 |
| 10°-20° | 111.0 | 9.4 |
| 20°-30° | 168.0 | 14.3 |
| 30°-40° | 202.1 | 17.2 |
| 40°-50° | 209.6 | 17.8 |
| 50°-60° | 189.9 | 16.1 |
| 60°-70° | 146.4 | 12.4 |
| 70°-80° | 86.4 | 7.3 |
| 80°-90° | 24.1 | 2.1 |
| 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° | 317.8 | 27.0 |
| 0°-40° | 519.8 | 44.2 |
| 0°-60° | 919.4 | 78.2 |
| 0°-90° | 1176.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1176.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 411 | |
| 5° | 409 | 39 |
| 15° | 393 | 111 |
| 25° | 364 | 168 |
| 35° | 323 | 202 |
| 45° | 272 | 210 |
| 55° | 212 | 190 |
| 65° | 148 | 146 |
| 75° | 82 | 86 |
| 85° | 21 | 24 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 411.3 |
| 2.5° | 409.8 |
| 5° | 408.7 |
| 7.5° | 405.7 |
| 10° | 402.5 |
| 12.5° | 398.5 |
| 15° | 393.4 |
| 17.5° | 387.3 |
| 20° | 380.3 |
| 22.5° | 373.0 |
| 25° | 364.0 |
| 27.5° | 355.9 |
| 30° | 345.3 |
| 32.5° | 334.0 |
| 35° | 323.1 |
| 37.5° | 311.3 |
| 40° | 298.6 |
| 42.5° | 285.1 |
| 45° | 271.8 |
| 47.5° | 257.9 |
| 50° | 243.4 |
| 52.5° | 227.8 |
| 55° | 212.5 |
| 57.5° | 196.8 |
| 60° | 180.8 |
| 62.5° | 164.4 |
| 65° | 148.0 |
| 67.5° | 131.4 |
| 70° | 114.8 |
| 72.5° | 98.2 |
| 75° | 81.7 |
| 77.5° | 65.4 |
| 80° | 49.8 |
| 82.5° | 35.0 |
| 85° | 21.0 |
| 87.5° | 7.8 |
| 90° | 0.0 |

(END OF REPORT)