

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: P253153

Luminaire Tested: **SMD6R12930WHE**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253153
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-792-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO
Catalog Number: SMD6R12930WHE
Description: HALO 6" ROUND SURFACE MOUNT 1200LM UNV Voltage
Light Source: (49) 3000K CCT, 93 CRI LEDS
Ballast/Driver: LEEDARSON ELECTRONIC DRIVER

Summary

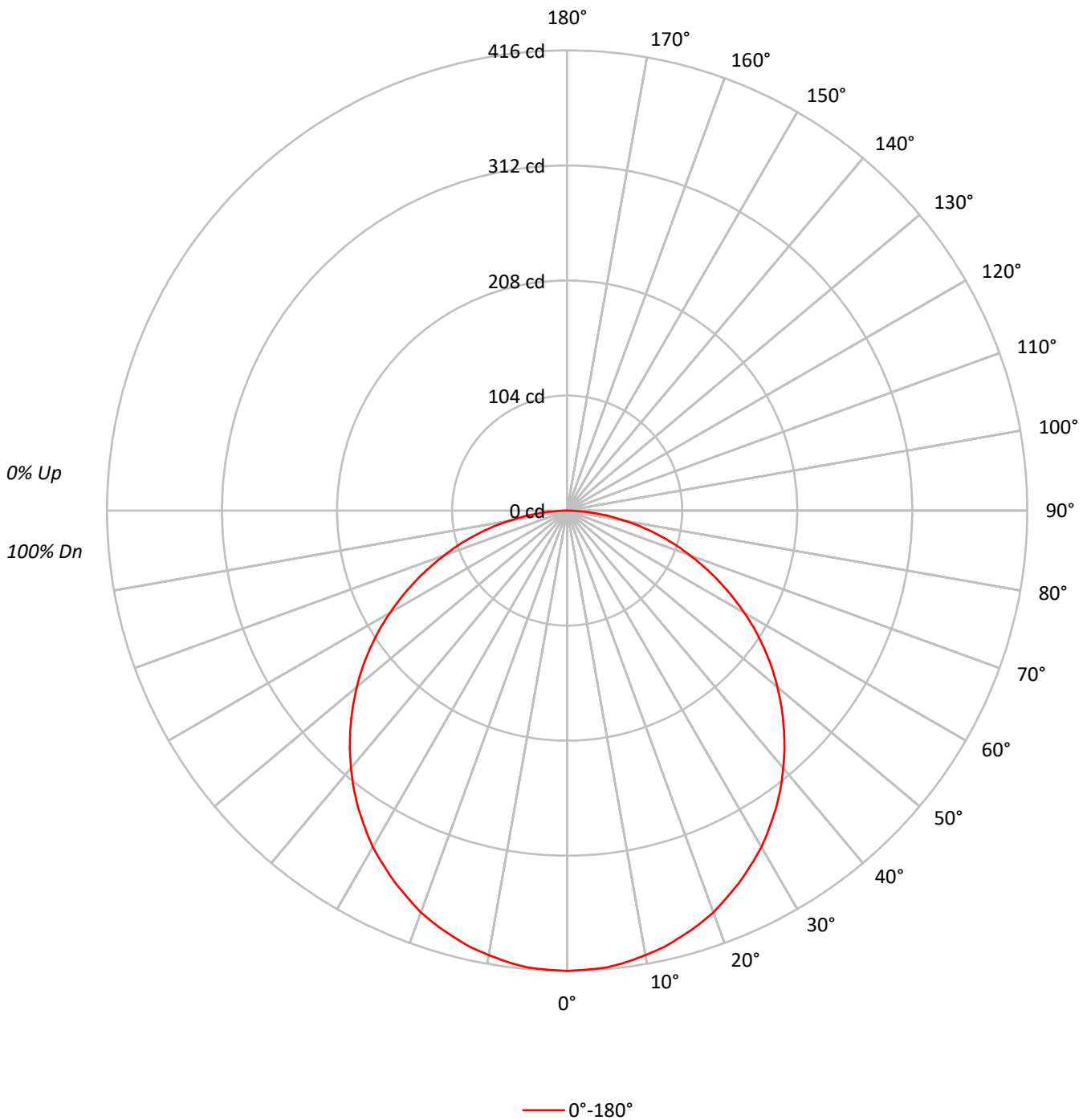
Lumens per Lamp: N/A
Luminaire Lumens: 1203.0 lumens
Efficiency: N/A
Efficacy: 78.6 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.52' x H: 0')
CIE Type: Direct

Input Watts (W): 15.3
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 | 108 | 104 | 99 | 95 | 106 | 101 | 97 | 94 | 97 | 94 | 91 | | 93 | 90 | 88 | | 89 | 87 | 85 | 83 |
| 2 | 98 | 90 | 83 | 77 | 96 | 88 | 82 | 76 | 85 | 79 | 74 | | 81 | 77 | 73 | | 78 | 74 | 71 | 69 |
| 3 | 90 | 79 | 71 | 64 | 87 | 77 | 70 | 63 | 74 | 68 | 62 | | 71 | 66 | 61 | | 69 | 64 | 60 | 58 |
| 4 | 82 | 70 | 61 | 54 | 80 | 68 | 60 | 54 | 66 | 59 | 53 | | 64 | 57 | 52 | | 61 | 56 | 51 | 49 |
| 5 | 75 | 62 | 53 | 46 | 73 | 61 | 53 | 46 | 59 | 51 | 46 | | 57 | 50 | 45 | | 55 | 49 | 45 | 42 |
| 6 | 70 | 56 | 47 | 40 | 68 | 55 | 47 | 40 | 53 | 46 | 40 | | 52 | 45 | 40 | | 50 | 44 | 39 | 37 |
| 7 | 64 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 48 | 41 | 35 | | 47 | 40 | 35 | | 46 | 39 | 35 | 33 |
| 8 | 60 | 46 | 38 | 32 | 58 | 46 | 37 | 32 | 44 | 37 | 32 | | 43 | 36 | 31 | | 42 | 36 | 31 | 29 |
| 9 | 56 | 42 | 34 | 29 | 55 | 42 | 34 | 29 | 41 | 33 | 28 | | 40 | 33 | 28 | | 39 | 33 | 28 | 26 |
| 10 | 53 | 39 | 31 | 26 | 51 | 39 | 31 | 26 | 38 | 31 | 26 | | 37 | 30 | 26 | | 36 | 30 | 25 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 21032 |
| 5° | 21022 |
| 10° | 20931 |
| 15° | 20854 |
| 20° | 20785 |
| 25° | 20620 |
| 30° | 20494 |
| 35° | 20292 |
| 40° | 20043 |
| 45° | 19784 |
| 50° | 19500 |
| 55° | 19158 |
| 60° | 18683 |
| 65° | 18111 |
| 70° | 17431 |
| 75° | 16690 |
| 80° | 15420 |
| 85° | 13449 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 39.3 | 3.3 |
| 10°-20° | 112.6 | 9.4 |
| 20°-30° | 170.5 | 14.2 |
| 30°-40° | 205.7 | 17.1 |
| 40°-50° | 213.7 | 17.8 |
| 50°-60° | 194.4 | 16.2 |
| 60°-70° | 149.9 | 12.5 |
| 70°-80° | 90.4 | 7.5 |
| 80°-90° | 26.4 | 2.2 |
| 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° | 322.5 | 26.8 |
| 0°-40° | 528.2 | 43.9 |
| 0°-60° | 936.2 | 77.8 |
| 0°-90° | 1203.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1203.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 416 | |
| 5° | 414 | 39 |
| 15° | 399 | 113 |
| 25° | 370 | 171 |
| 35° | 329 | 206 |
| 45° | 277 | 214 |
| 55° | 218 | 194 |
| 65° | 152 | 150 |
| 75° | 86 | 90 |
| 85° | 23 | 26 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 416.3 |
| 2.5° | 415.4 |
| 5° | 414.5 |
| 7.5° | 411.7 |
| 10° | 408.0 |
| 12.5° | 404.2 |
| 15° | 398.7 |
| 17.5° | 393.1 |
| 20° | 386.6 |
| 22.5° | 378.2 |
| 25° | 369.9 |
| 27.5° | 360.6 |
| 30° | 351.3 |
| 32.5° | 340.1 |
| 35° | 329.0 |
| 37.5° | 316.9 |
| 40° | 303.9 |
| 42.5° | 290.9 |
| 45° | 276.9 |
| 47.5° | 263.0 |
| 50° | 248.1 |
| 52.5° | 233.3 |
| 55° | 217.5 |
| 57.5° | 201.7 |
| 60° | 184.9 |
| 62.5° | 168.2 |
| 65° | 151.5 |
| 67.5° | 134.7 |
| 70° | 118.0 |
| 72.5° | 102.2 |
| 75° | 85.5 |
| 77.5° | 69.7 |
| 80° | 53.0 |
| 82.5° | 38.1 |
| 85° | 23.2 |
| 87.5° | 9.3 |
| 90° | 0.0 |

(END OF REPORT)