

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 COMMERCIAL

Report Number: P253068

Luminaire Tested: **PRS610D010-S6M12-61SWDH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1805-776-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-61SWDH
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, DEEP TRIM HAZE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 930.1 lumens
Efficiency: N/A
Efficacy: 93.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.33
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

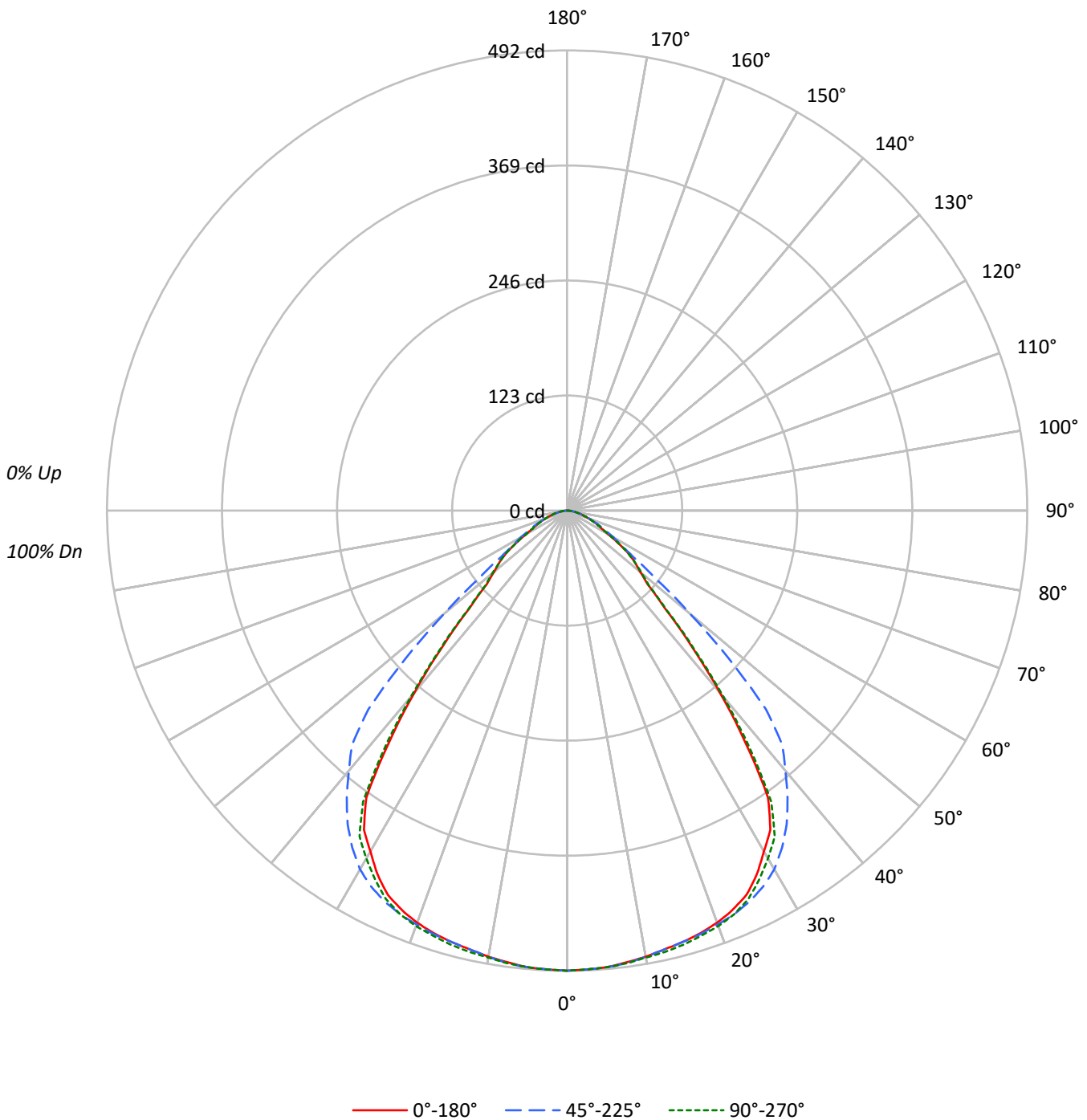
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | | | |
| 1 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 100 | 102 | 99 | 97 | 98 | 96 | 94 | 94 | 93 | 91 | 89 | | | | | 89 | | | |
| 2 | 104 | 97 | 92 | 88 | 101 | 96 | 91 | 87 | 92 | 88 | 85 | 89 | 86 | 83 | 86 | 84 | 81 | 79 | | | | | 79 | | | |
| 3 | 97 | 88 | 82 | 76 | 94 | 87 | 81 | 76 | 84 | 79 | 75 | 81 | 77 | 73 | 79 | 75 | 72 | 70 | | | | | 70 | | | |
| 4 | 90 | 80 | 73 | 67 | 88 | 79 | 72 | 67 | 77 | 71 | 66 | 74 | 69 | 65 | 72 | 68 | 65 | 63 | | | | | 63 | | | |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 66 | 62 | 58 | 56 | | | | | 56 | | | |
| 6 | 78 | 67 | 59 | 54 | 76 | 66 | 59 | 54 | 64 | 58 | 53 | 63 | 57 | 53 | 61 | 56 | 52 | 51 | | | | | 51 | | | |
| 7 | 73 | 61 | 54 | 49 | 71 | 61 | 53 | 48 | 59 | 53 | 48 | 58 | 52 | 48 | 57 | 51 | 47 | 46 | | | | | 46 | | | |
| 8 | 68 | 57 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 44 | 54 | 48 | 43 | 52 | 47 | 43 | 42 | | | | | 42 | | | |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 40 | 49 | 43 | 40 | 38 | | | | | 38 | | | |
| 10 | 60 | 49 | 42 | 37 | 59 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 41 | 37 | 46 | 40 | 36 | 35 | | | | | 35 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 21183 | 21183 | 21183 |
| 5° | 21182 | 21182 | 21182 |
| 10° | 21174 | 21174 | 21217 |
| 15° | 21289 | 21289 | 21418 |
| 20° | 21484 | 21572 | 21659 |
| 25° | 21544 | 21910 | 21772 |
| 30° | 20921 | 22019 | 21348 |
| 35° | 19684 | 21508 | 19989 |
| 40° | 14287 | 20402 | 14613 |
| 45° | 8969 | 18291 | 9146 |
| 50° | 6839 | 11481 | 6966 |
| 55° | 5998 | 6433 | 5998 |
| 60° | 4392 | 4891 | 4392 |
| 65° | 3627 | 3922 | 3627 |
| 70° | 3034 | 3147 | 3034 |
| 75° | 2562 | 2562 | 2562 |
| 80° | 2157 | 2157 | 2157 |
| 85° | 1927 | 1927 | 1927 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 46.6 | 5.0 |
| 10°-20° | 135.4 | 14.6 |
| 20°-30° | 210.6 | 22.6 |
| 30°-40° | 240.7 | 25.9 |
| 40°-50° | 161.0 | 17.3 |
| 50°-60° | 77.1 | 8.3 |
| 60°-70° | 37.6 | 4.0 |
| 70°-80° | 16.9 | 1.8 |
| 80°-90° | 4.3 | 0.5 |
| 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° | 392.6 | 42.2 |
| 0°-40° | 633.2 | 68.1 |
| 0°-60° | 871.3 | 93.7 |
| 0°-90° | 930.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 930.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 492 | 492 | 492 | 492 | 492 | |
| 5° | 490 | 490 | 490 | 490 | 490 | 47 |
| 15° | 478 | 478 | 478 | 480 | 480 | 135 |
| 25° | 454 | 456 | 461 | 460 | 458 | 208 |
| 35° | 374 | 396 | 409 | 402 | 380 | 223 |
| 45° | 147 | 190 | 300 | 193 | 150 | 122 |
| 55° | 80 | 86 | 86 | 87 | 80 | 70 |
| 65° | 36 | 37 | 38 | 37 | 36 | 36 |
| 75° | 15 | 15 | 15 | 15 | 15 | 17 |
| 85° | 4 | 4 | 4 | 4 | 4 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: PRS610D010-S6M12-61SWDH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 492.0 | 492.0 | 492.0 | 492.0 | 492.0 |
| 2.5° | 491.0 | 491.0 | 491.0 | 491.0 | 491.0 |
| 5° | 490.1 | 490.1 | 490.1 | 490.1 | 490.1 |
| 7.5° | 487.2 | 487.2 | 488.2 | 487.2 | 488.2 |
| 10° | 484.3 | 484.3 | 484.3 | 485.3 | 485.3 |
| 12.5° | 480.5 | 480.5 | 480.5 | 482.4 | 483.3 |
| 15° | 477.6 | 477.6 | 477.6 | 479.5 | 480.5 |
| 17.5° | 473.7 | 473.7 | 474.7 | 476.6 | 476.6 |
| 20° | 468.9 | 469.9 | 470.8 | 472.7 | 472.7 |
| 22.5° | 462.2 | 464.1 | 467.0 | 467.9 | 467.0 |
| 25° | 453.5 | 456.4 | 461.2 | 460.2 | 458.3 |
| 27.5° | 439.0 | 445.8 | 453.5 | 449.6 | 444.8 |
| 30° | 420.8 | 431.3 | 442.9 | 435.2 | 429.4 |
| 32.5° | 404.4 | 413.1 | 427.5 | 418.8 | 413.1 |
| 35° | 374.5 | 395.7 | 409.2 | 401.5 | 380.3 |
| 37.5° | 313.9 | 361.1 | 387.1 | 366.8 | 321.6 |
| 40° | 254.2 | 304.3 | 363.0 | 308.1 | 260.0 |
| 42.5° | 197.4 | 245.5 | 340.8 | 249.4 | 201.2 |
| 45° | 147.3 | 189.7 | 300.4 | 192.6 | 150.2 |
| 47.5° | 116.5 | 140.6 | 234.0 | 143.5 | 118.4 |
| 50° | 102.1 | 111.7 | 171.4 | 113.6 | 104.0 |
| 52.5° | 91.5 | 97.2 | 119.4 | 98.2 | 91.5 |
| 55° | 79.9 | 85.7 | 85.7 | 86.7 | 79.9 |
| 57.5° | 64.5 | 73.2 | 67.4 | 73.2 | 65.5 |
| 60° | 51.0 | 57.8 | 56.8 | 57.8 | 51.0 |
| 62.5° | 41.4 | 45.3 | 46.2 | 45.3 | 41.4 |
| 65° | 35.6 | 36.6 | 38.5 | 36.6 | 35.6 |
| 67.5° | 29.8 | 30.8 | 30.8 | 30.8 | 28.9 |
| 70° | 24.1 | 25.0 | 25.0 | 25.0 | 24.1 |
| 72.5° | 19.3 | 20.2 | 20.2 | 20.2 | 19.3 |
| 75° | 15.4 | 15.4 | 15.4 | 15.4 | 15.4 |
| 77.5° | 11.6 | 12.5 | 11.6 | 12.5 | 11.6 |
| 80° | 8.7 | 8.7 | 8.7 | 8.7 | 8.7 |
| 82.5° | 5.8 | 5.8 | 5.8 | 5.8 | 5.8 |
| 85° | 3.9 | 3.9 | 3.9 | 3.9 | 3.9 |
| 87.5° | 1.9 | 1.9 | 1.9 | 1.9 | 1.9 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)