

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: P253025

Luminaire Tested: **PRS620D010-S6M12-64SWDMW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P253025
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1804-748-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS620D010-S6M12-64SWDMW
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM MATTE WHITE
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2305.3 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.32 / 1.41
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

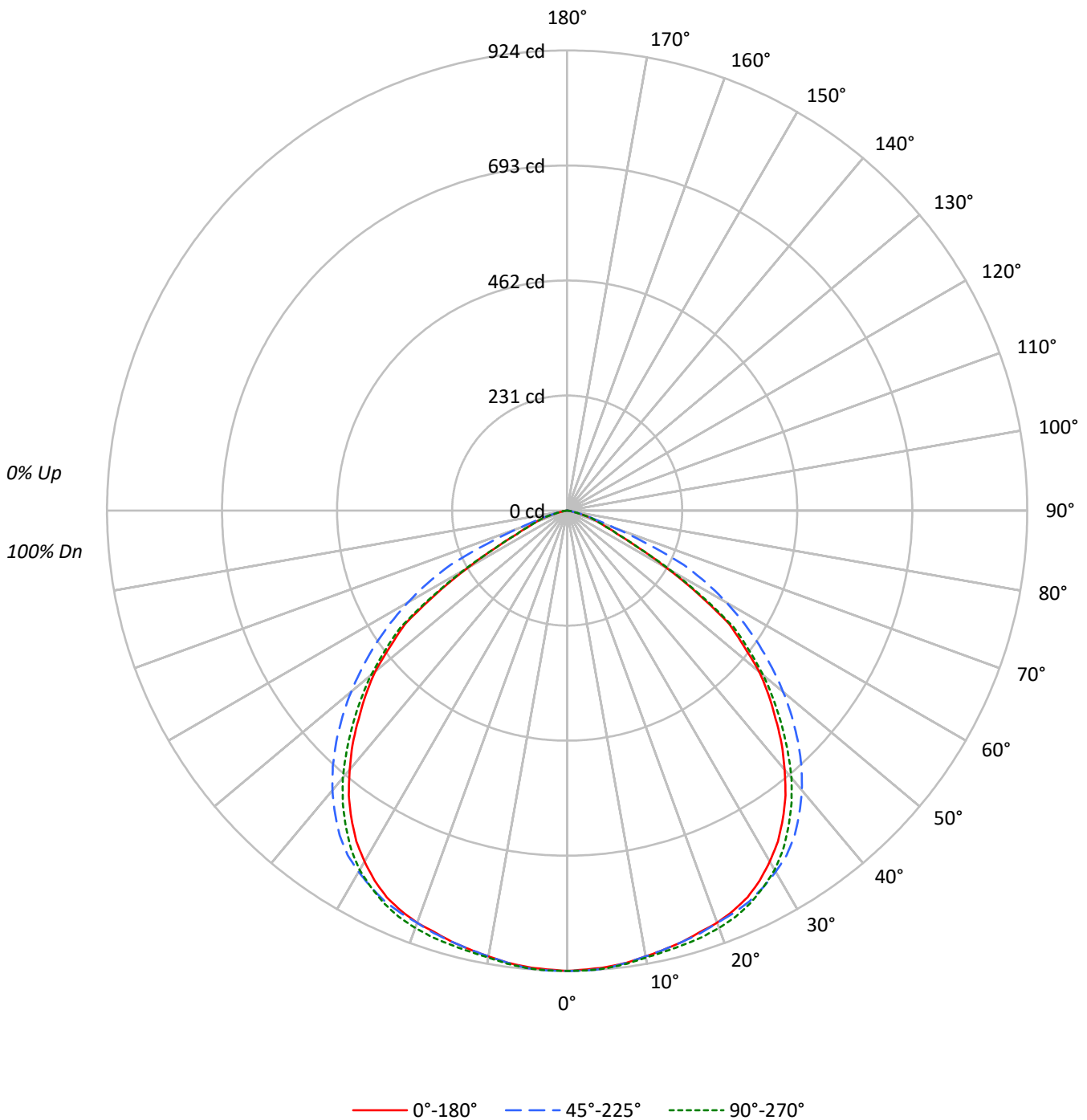
Input Watts (W): 20
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 111 | 107 | 103 | 100 | 108 | 105 | 101 | 99 | 100 | 98 | 95 | 97 | 95 | 93 | 93 | 91 | 90 | 88 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 81 | 86 | 83 | 79 | 84 | 80 | 78 | 76 |
| 3 | 94 | 84 | 77 | 72 | 91 | 83 | 76 | 71 | 80 | 74 | 70 | 77 | 73 | 68 | 75 | 71 | 67 | 65 |
| 4 | 86 | 76 | 68 | 61 | 84 | 74 | 67 | 61 | 72 | 65 | 60 | 70 | 64 | 59 | 67 | 63 | 59 | 57 |
| 5 | 80 | 68 | 60 | 53 | 78 | 67 | 59 | 53 | 65 | 58 | 53 | 63 | 57 | 52 | 61 | 56 | 52 | 50 |
| 6 | 74 | 61 | 53 | 47 | 72 | 60 | 52 | 47 | 59 | 52 | 46 | 57 | 51 | 46 | 55 | 50 | 46 | 44 |
| 7 | 68 | 56 | 47 | 42 | 67 | 55 | 47 | 41 | 53 | 46 | 41 | 52 | 46 | 41 | 51 | 45 | 41 | 39 |
| 8 | 64 | 51 | 43 | 37 | 62 | 50 | 42 | 37 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 36 | 35 |
| 9 | 60 | 47 | 39 | 34 | 58 | 46 | 39 | 33 | 45 | 38 | 33 | 44 | 38 | 33 | 43 | 37 | 33 | 31 |
| 10 | 56 | 43 | 35 | 30 | 55 | 43 | 35 | 30 | 42 | 35 | 30 | 41 | 34 | 30 | 40 | 34 | 30 | 28 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 39796 | 39796 | 39796 |
| 5° | 39763 | 39853 | 39853 |
| 10° | 39746 | 39746 | 39842 |
| 15° | 39943 | 39943 | 40233 |
| 20° | 40362 | 40362 | 40861 |
| 25° | 40713 | 41127 | 41336 |
| 30° | 40454 | 41637 | 41424 |
| 35° | 39689 | 41855 | 40714 |
| 40° | 38169 | 41221 | 39389 |
| 45° | 36065 | 39901 | 37125 |
| 50° | 33719 | 37932 | 34443 |
| 55° | 29808 | 35341 | 30619 |
| 60° | 19995 | 31766 | 20555 |
| 65° | 11278 | 26305 | 11278 |
| 70° | 8472 | 12840 | 8195 |
| 75° | 5057 | 5772 | 5407 |
| 80° | 2157 | 2678 | 2157 |
| 85° | 1087 | 1087 | 1087 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 87.6 | 3.8 |
| 10°-20° | 254.0 | 11.0 |
| 20°-30° | 397.9 | 17.3 |
| 30°-40° | 486.2 | 21.1 |
| 40°-50° | 483.3 | 21.0 |
| 50°-60° | 381.6 | 16.6 |
| 60°-70° | 170.8 | 7.4 |
| 70°-80° | 39.8 | 1.7 |
| 80°-90° | 4.1 | 0.2 |
| 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° | 739.5 | 32.1 |
| 0°-40° | 1225.6 | 53.2 |
| 0°-60° | 2090.6 | 90.7 |
| 0°-90° | 2305.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2305.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 924 | 924 | 924 | 924 | 924 | |
| 5° | 920 | 920 | 922 | 922 | 922 | 87 |
| 15° | 896 | 894 | 896 | 898 | 903 | 253 |
| 25° | 857 | 859 | 866 | 868 | 870 | 394 |
| 35° | 755 | 770 | 796 | 785 | 775 | 471 |
| 45° | 592 | 620 | 655 | 636 | 610 | 457 |
| 55° | 397 | 427 | 471 | 436 | 408 | 340 |
| 65° | 111 | 145 | 258 | 148 | 111 | 124 |
| 75° | 30 | 37 | 35 | 37 | 32 | 34 |
| 85° | 2 | 2 | 2 | 2 | 2 | 4 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: PRS620D010-S6M12-64SWDMW

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 924.3 | 924.3 | 924.3 | 924.3 | 924.3 |
| 2.5° | 922.1 | 924.3 | 924.3 | 924.3 | 924.3 |
| 5° | 920.0 | 920.0 | 922.1 | 922.1 | 922.1 |
| 7.5° | 915.6 | 915.6 | 915.6 | 917.8 | 917.8 |
| 10° | 909.1 | 909.1 | 909.1 | 911.3 | 911.3 |
| 12.5° | 902.6 | 902.6 | 902.6 | 904.8 | 907.0 |
| 15° | 896.1 | 893.9 | 896.1 | 898.3 | 902.6 |
| 17.5° | 887.4 | 889.6 | 889.6 | 893.9 | 898.3 |
| 20° | 880.9 | 880.9 | 880.9 | 887.4 | 891.8 |
| 22.5° | 870.1 | 870.1 | 874.4 | 878.7 | 883.1 |
| 25° | 857.0 | 859.2 | 865.7 | 867.9 | 870.1 |
| 27.5° | 837.5 | 844.0 | 852.7 | 854.9 | 852.7 |
| 30° | 813.7 | 822.3 | 837.5 | 835.4 | 833.2 |
| 32.5° | 787.6 | 798.5 | 820.2 | 813.7 | 807.1 |
| 35° | 755.1 | 770.3 | 796.3 | 785.4 | 774.6 |
| 37.5° | 720.4 | 739.9 | 765.9 | 755.1 | 739.9 |
| 40° | 679.1 | 703.0 | 733.4 | 718.2 | 700.8 |
| 42.5° | 637.9 | 663.9 | 696.5 | 677.0 | 655.3 |
| 45° | 592.3 | 620.5 | 655.3 | 635.7 | 609.7 |
| 47.5° | 548.9 | 577.2 | 611.9 | 588.0 | 562.0 |
| 50° | 503.4 | 529.4 | 566.3 | 540.3 | 514.2 |
| 52.5° | 447.0 | 481.7 | 518.6 | 490.4 | 460.0 |
| 55° | 397.1 | 427.4 | 470.8 | 436.1 | 407.9 |
| 57.5° | 312.4 | 373.2 | 420.9 | 379.7 | 321.1 |
| 60° | 232.2 | 290.7 | 368.9 | 299.4 | 238.7 |
| 62.5° | 160.6 | 214.8 | 316.8 | 217.0 | 162.7 |
| 65° | 110.7 | 145.4 | 258.2 | 147.5 | 110.7 |
| 67.5° | 82.5 | 97.6 | 173.6 | 97.6 | 82.5 |
| 70° | 67.3 | 71.6 | 102.0 | 71.6 | 65.1 |
| 72.5° | 49.9 | 56.4 | 56.4 | 56.4 | 52.1 |
| 75° | 30.4 | 36.9 | 34.7 | 36.9 | 32.5 |
| 77.5° | 13.0 | 17.4 | 21.7 | 19.5 | 13.0 |
| 80° | 8.7 | 8.7 | 10.8 | 8.7 | 8.7 |
| 82.5° | 6.5 | 6.5 | 6.5 | 6.5 | 6.5 |
| 85° | 2.2 | 2.2 | 2.2 | 2.2 | 2.2 |
| 87.5° | 2.2 | 2.2 | 2.2 | 2.2 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)