

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: P238103

Luminaire Tested: **PRS610D010-S6M12-64SMDC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-11)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SMDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" MEDIUM DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1118.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 0.96 / 1.03
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

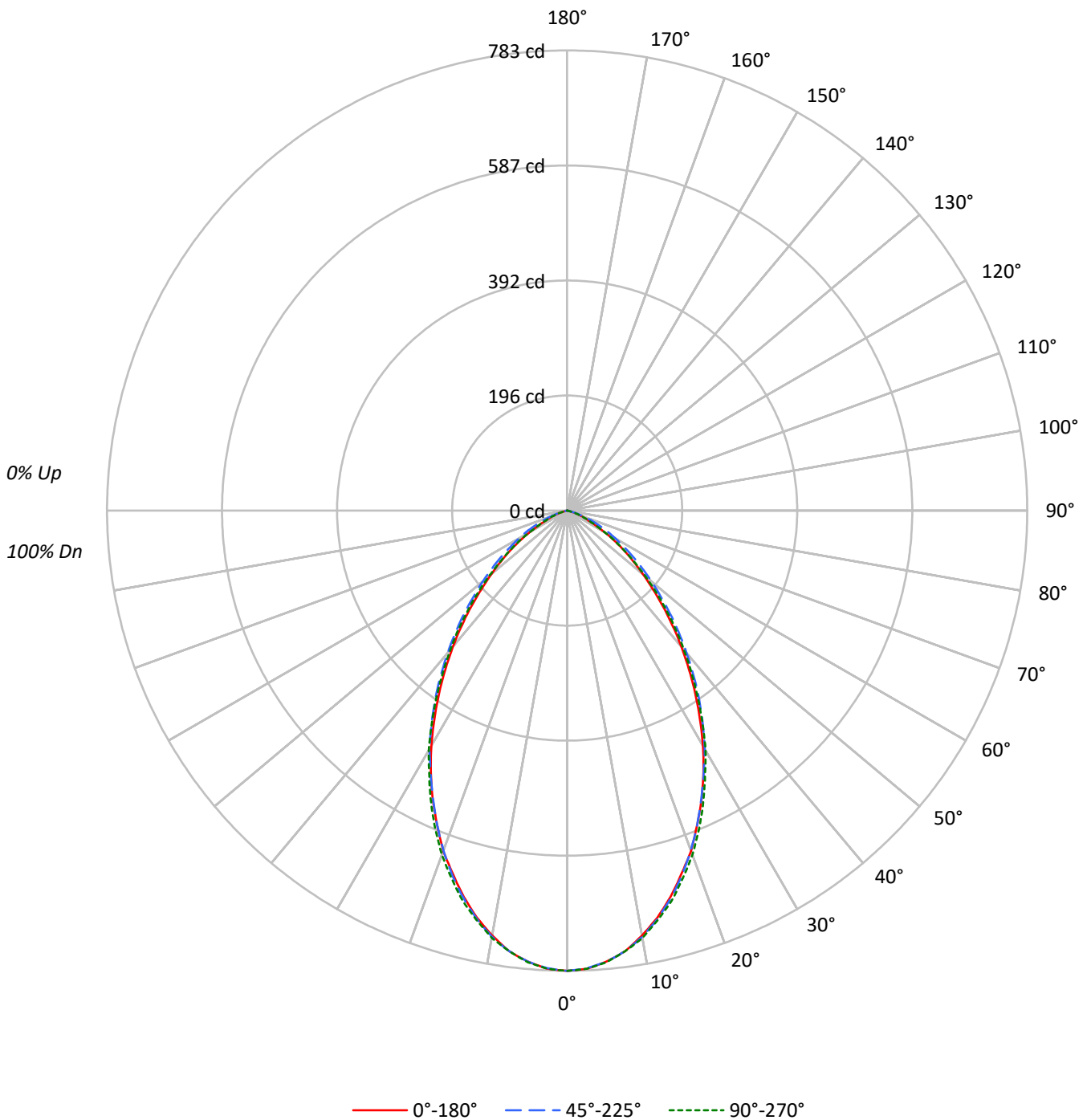
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 103 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | 98 | 96 | 95 | 95 | 93 | 92 | 90 | | | | | 90 | | | |
| 2 | 104 | 98 | 93 | 89 | 102 | 96 | 92 | 88 | 93 | 89 | 86 | 90 | 87 | 84 | 87 | 84 | 82 | 80 | | | | | 80 | | | |
| 3 | 97 | 89 | 83 | 78 | 95 | 87 | 82 | 77 | 85 | 80 | 76 | 82 | 78 | 74 | 80 | 76 | 73 | 71 | | | | | 71 | | | |
| 4 | 91 | 81 | 74 | 69 | 89 | 80 | 73 | 68 | 77 | 72 | 67 | 75 | 70 | 66 | 73 | 69 | 66 | 64 | | | | | 64 | | | |
| 5 | 84 | 74 | 67 | 61 | 83 | 73 | 66 | 61 | 71 | 65 | 60 | 69 | 64 | 60 | 67 | 63 | 59 | 57 | | | | | 57 | | | |
| 6 | 79 | 68 | 60 | 55 | 77 | 67 | 60 | 55 | 65 | 59 | 54 | 64 | 58 | 54 | 62 | 57 | 54 | 52 | | | | | 52 | | | |
| 7 | 74 | 63 | 55 | 50 | 73 | 62 | 55 | 50 | 60 | 54 | 50 | 59 | 53 | 49 | 58 | 53 | 49 | 47 | | | | | 47 | | | |
| 8 | 70 | 58 | 51 | 46 | 68 | 57 | 50 | 46 | 56 | 50 | 45 | 55 | 49 | 45 | 54 | 49 | 45 | 43 | | | | | 43 | | | |
| 9 | 66 | 54 | 47 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 42 | 51 | 46 | 41 | 50 | 45 | 41 | 40 | | | | | 40 | | | |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 | | | | | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 33725 | 33725 | 33725 |
| 5° | 33292 | 33292 | 33336 |
| 10° | 32103 | 32191 | 32278 |
| 15° | 30324 | 30413 | 30636 |
| 20° | 28238 | 28192 | 28559 |
| 25° | 25711 | 25663 | 26043 |
| 30° | 22979 | 23277 | 23426 |
| 35° | 19984 | 20562 | 20352 |
| 40° | 16980 | 17766 | 17373 |
| 45° | 14072 | 15046 | 14437 |
| 50° | 11260 | 12532 | 11595 |
| 55° | 8858 | 10291 | 9015 |
| 60° | 6286 | 8094 | 6372 |
| 65° | 4075 | 6113 | 4177 |
| 70° | 2769 | 3777 | 2769 |
| 75° | 1331 | 1664 | 1331 |
| 80° | 0 | 248 | 0 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 72.5 | 6.5 |
| 10°-20° | 191.2 | 17.1 |
| 20°-30° | 248.9 | 22.3 |
| 30°-40° | 241.4 | 21.6 |
| 40°-50° | 186.6 | 16.7 |
| 50°-60° | 115.4 | 10.3 |
| 60°-70° | 50.9 | 4.5 |
| 70°-80° | 11.2 | 1.0 |
| 80°-90° | 0.0 | 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° | 512.6 | 45.8 |
| 0°-40° | 754.0 | 67.4 |
| 0°-60° | 1055.9 | 94.4 |
| 0°-90° | 1118.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1118.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 783 | 783 | 783 | 783 | 783 | |
| 5° | 770 | 771 | 770 | 771 | 771 | 72 |
| 15° | 680 | 681 | 682 | 686 | 687 | 190 |
| 25° | 541 | 540 | 540 | 545 | 548 | 248 |
| 35° | 380 | 384 | 391 | 388 | 387 | 237 |
| 45° | 231 | 240 | 247 | 244 | 237 | 178 |
| 55° | 118 | 127 | 137 | 129 | 120 | 106 |
| 65° | 40 | 48 | 60 | 48 | 41 | 42 |
| 75° | 8 | 10 | 10 | 10 | 8 | 9 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P238103

CATALOG NUMBER: PRS610D010-S6M12-64SMDC

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 783.3 | 783.3 | 783.3 | 783.3 | 783.3 |
| 2.5° | 780.3 | 780.3 | 779.3 | 780.3 | 780.3 |
| 5° | 770.3 | 771.3 | 770.3 | 771.3 | 771.3 |
| 7.5° | 756.3 | 756.3 | 756.3 | 757.3 | 756.3 |
| 10° | 734.3 | 735.3 | 736.3 | 737.3 | 738.3 |
| 12.5° | 709.3 | 710.3 | 711.3 | 713.3 | 713.3 |
| 15° | 680.3 | 681.3 | 682.3 | 686.3 | 687.3 |
| 17.5° | 647.3 | 648.3 | 650.3 | 654.3 | 655.3 |
| 20° | 616.3 | 613.3 | 615.3 | 618.3 | 623.3 |
| 22.5° | 578.2 | 578.2 | 578.2 | 582.2 | 586.2 |
| 25° | 541.2 | 540.2 | 540.2 | 545.2 | 548.2 |
| 27.5° | 502.2 | 502.2 | 503.2 | 506.2 | 508.2 |
| 30° | 462.2 | 462.2 | 468.2 | 467.2 | 471.2 |
| 32.5° | 420.2 | 423.2 | 429.2 | 427.2 | 428.2 |
| 35° | 380.2 | 384.2 | 391.2 | 388.2 | 387.2 |
| 37.5° | 340.1 | 345.1 | 353.1 | 350.1 | 347.1 |
| 40° | 302.1 | 309.1 | 316.1 | 312.1 | 309.1 |
| 42.5° | 265.1 | 273.1 | 281.1 | 277.1 | 273.1 |
| 45° | 231.1 | 240.1 | 247.1 | 244.1 | 237.1 |
| 47.5° | 197.1 | 208.1 | 215.1 | 212.1 | 205.1 |
| 50° | 168.1 | 179.1 | 187.1 | 182.1 | 173.1 |
| 52.5° | 142.1 | 152.1 | 160.1 | 154.1 | 145.1 |
| 55° | 118.0 | 127.1 | 137.1 | 129.1 | 120.1 |
| 57.5° | 95.0 | 105.0 | 114.0 | 107.0 | 97.0 |
| 60° | 73.0 | 84.0 | 94.0 | 86.0 | 74.0 |
| 62.5° | 54.0 | 65.0 | 77.0 | 66.0 | 55.0 |
| 65° | 40.0 | 48.0 | 60.0 | 48.0 | 41.0 |
| 67.5° | 30.0 | 35.0 | 45.0 | 36.0 | 30.0 |
| 70° | 22.0 | 26.0 | 30.0 | 26.0 | 22.0 |
| 72.5° | 15.0 | 18.0 | 18.0 | 18.0 | 15.0 |
| 75° | 8.0 | 10.0 | 10.0 | 10.0 | 8.0 |
| 77.5° | 1.0 | 3.0 | 4.0 | 3.0 | 1.0 |
| 80° | 0.0 | 0.0 | 1.0 | 0.0 | 0.0 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)