

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: P238088

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P238088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1802-584-10)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PRS610D010-S6M12-64SNDC
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" NARROW DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

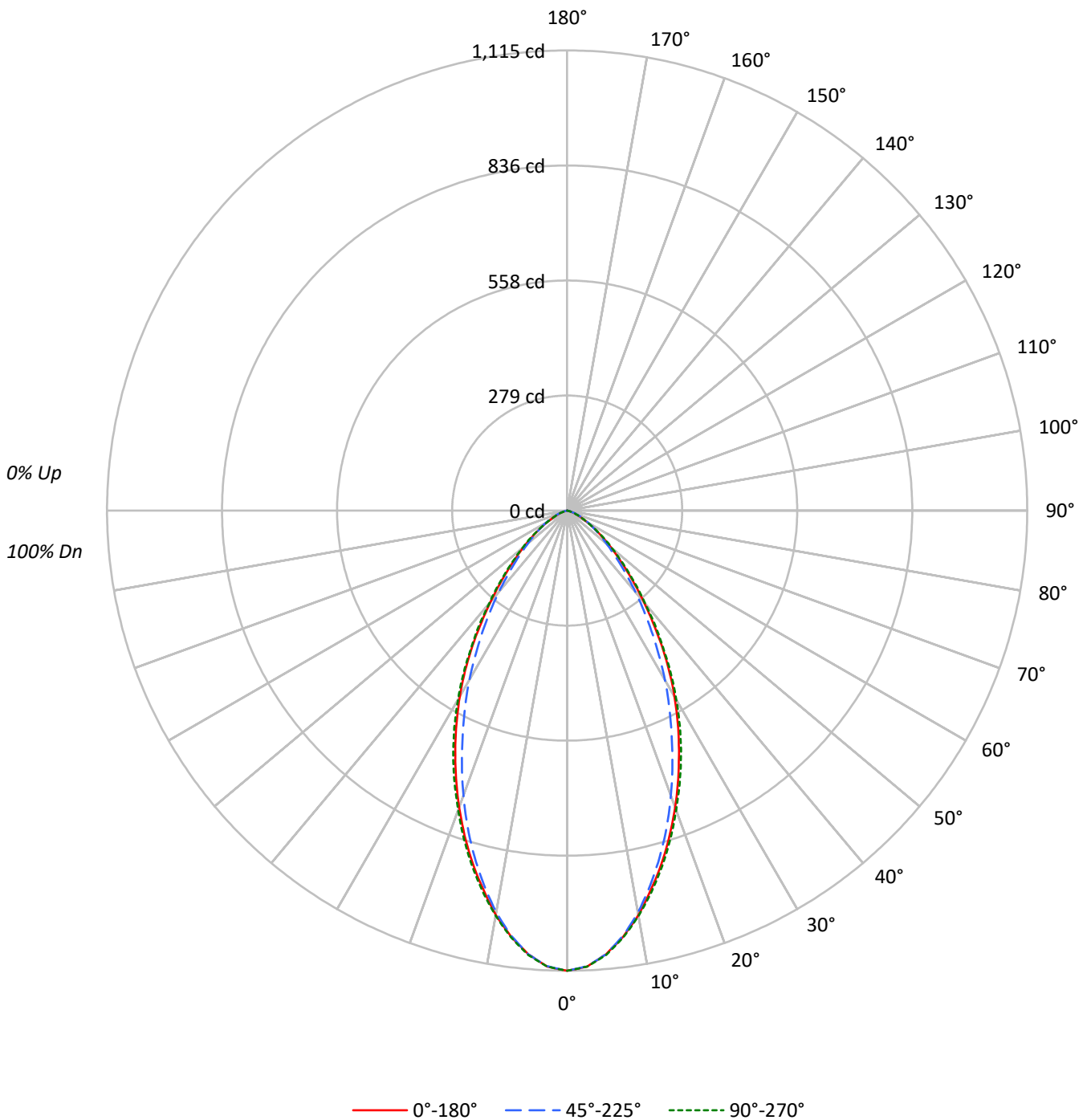
Lumens per Lamp: N/A
Luminaire Lumens: 1138.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 0.82 / 0.83 / 0.86
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

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





TEST NUMBER: P238088

CATALOG NUMBER: PRS610D010-S6M12-64SNDC

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 | 109 | 106 | 104 | 110 | 107 | 105 | 102 | 103 | 101 | 99 | 99 | 98 | 96 | 96 | 94 | 93 | 91 | | | | | 91 | | | |
| 2 | 106 | 100 | 95 | 91 | 103 | 98 | 94 | 90 | 95 | 91 | 88 | 92 | 89 | 86 | 89 | 87 | 84 | 83 | | | | | 83 | | | |
| 3 | 99 | 92 | 86 | 81 | 97 | 90 | 85 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 79 | 77 | 75 | | | | | 75 | | | |
| 4 | 93 | 84 | 78 | 73 | 91 | 83 | 77 | 72 | 81 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 70 | 68 | | | | | 68 | | | |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 70 | 66 | 75 | 69 | 65 | 73 | 68 | 65 | 72 | 67 | 64 | 62 | | | | | 62 | | | |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 60 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | | | | | 57 | | | |
| 7 | 78 | 67 | 60 | 55 | 76 | 66 | 60 | 55 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 54 | 53 | | | | | 53 | | | |
| 8 | 73 | 63 | 56 | 51 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 54 | 51 | 59 | 54 | 50 | 49 | | | | | 49 | | | |
| 9 | 69 | 59 | 52 | 48 | 68 | 58 | 52 | 47 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | | | | | 45 | | | |
| 10 | 66 | 55 | 49 | 44 | 65 | 55 | 48 | 44 | 54 | 48 | 44 | 53 | 48 | 44 | 52 | 47 | 44 | 42 | | | | | 42 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 45° | 90° |
|-----|-------|-------|-------|
| 0° | 48007 | 48007 | 48007 |
| 5° | 46635 | 46635 | 46721 |
| 10° | 43501 | 43239 | 43589 |
| 15° | 39448 | 38691 | 39716 |
| 20° | 35051 | 33677 | 35372 |
| 25° | 30452 | 28456 | 31022 |
| 30° | 25853 | 23566 | 26300 |
| 35° | 21025 | 18712 | 21287 |
| 40° | 16243 | 14445 | 16524 |
| 45° | 12239 | 10899 | 12665 |
| 50° | 9244 | 8306 | 9579 |
| 55° | 6681 | 6456 | 6906 |
| 60° | 4736 | 5167 | 4822 |
| 65° | 3260 | 3769 | 3260 |
| 70° | 2140 | 2518 | 2140 |
| 75° | 998 | 1164 | 998 |
| 80° | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 |



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CATALOG NUMBER: PRS610D010-S6M12-64SND C

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 100.3 | 8.8 |
| 10°-20° | 244.7 | 21.5 |
| 20°-30° | 284.6 | 25.0 |
| 30°-40° | 235.4 | 20.7 |
| 40°-50° | 148.5 | 13.1 |
| 50°-60° | 80.8 | 7.1 |
| 60°-70° | 35.5 | 3.1 |
| 70°-80° | 8.2 | 0.7 |
| 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° | 629.5 | 55.3 |
| 0°-40° | 865.0 | 76.0 |
| 0°-60° | 1094.3 | 96.2 |
| 0°-90° | 1138.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1138.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|------|-------|------|-------|------|------|
| 0° | 1115 | 1115 | 1115 | 1115 | 1115 | |
| 5° | 1079 | 1080 | 1079 | 1080 | 1081 | 100 |
| 15° | 885 | 875 | 868 | 880 | 891 | 247 |
| 25° | 641 | 616 | 599 | 624 | 653 | 294 |
| 35° | 400 | 370 | 356 | 376 | 405 | 249 |
| 45° | 201 | 185 | 179 | 188 | 208 | 158 |
| 55° | 89 | 88 | 86 | 90 | 92 | 82 |
| 65° | 32 | 35 | 37 | 35 | 32 | 33 |
| 75° | 6 | 7 | 7 | 8 | 6 | 7 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CATALOG NUMBER: PRS610D010-S6M12-64SND

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|------|-------|------|-------|------|
| 0° | 1115 | 1115 | 1115 | 1115 | 1115 |
| 2.5° | 1106 | 1105 | 1105 | 1106 | 1106 |
| 5° | 1079 | 1080 | 1079 | 1080 | 1081 |
| 7.5° | 1041 | 1040 | 1039 | 1042 | 1043 |
| 10° | 995 | 992 | 989 | 994 | 997 |
| 12.5° | 940 | 935 | 930 | 938 | 946 |
| 15° | 885 | 875 | 868 | 880 | 891 |
| 17.5° | 826 | 813 | 803 | 817 | 833 |
| 20° | 765 | 748 | 735 | 752 | 772 |
| 22.5° | 703 | 682 | 666 | 688 | 713 |
| 25° | 641 | 616 | 599 | 624 | 653 |
| 27.5° | 581 | 552 | 535 | 559 | 592 |
| 30° | 520 | 490 | 474 | 498 | 529 |
| 32.5° | 460 | 430 | 412 | 436 | 468 |
| 35° | 400 | 370 | 356 | 376 | 405 |
| 37.5° | 340 | 315 | 304 | 321 | 350 |
| 40° | 289 | 266 | 257 | 270 | 294 |
| 42.5° | 242 | 221 | 214 | 227 | 250 |
| 45° | 201 | 185 | 179 | 188 | 208 |
| 47.5° | 166 | 154 | 149 | 158 | 172 |
| 50° | 138 | 129 | 124 | 131 | 143 |
| 52.5° | 113 | 107 | 103 | 109 | 117 |
| 55° | 89 | 88 | 86 | 90 | 92 |
| 57.5° | 71 | 71 | 72 | 72 | 72 |
| 60° | 55 | 57 | 60 | 58 | 56 |
| 62.5° | 42 | 45 | 48 | 45 | 43 |
| 65° | 32 | 35 | 37 | 35 | 32 |
| 67.5° | 24 | 26 | 28 | 26 | 24 |
| 70° | 17 | 19 | 20 | 19 | 17 |
| 72.5° | 11 | 13 | 13 | 13 | 11 |
| 75° | 6 | 7 | 7 | 8 | 6 |
| 77.5° | 1 | 2 | 3 | 3 | 1 |
| 80° | 0 | 0 | 0 | 0 | 0 |
| 82.5° | 0 | 0 | 0 | 0 | 0 |
| 85° | 0 | 0 | 0 | 0 | 0 |
| 87.5° | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 |

(END OF REPORT)