

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: P252988

Luminaire Tested: **PRS610D010-S6M12-64SWDC-3000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P252988
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: PRS610D010-S6M12-64SWDC-3000K
Description: HALO COMMERCIAL 6" SQUARE, NEW CONSTRUCTION FRAME, WITH 6" WIDE DISTRIBUTION, SHALLOW TRIM SPECULAR
Light Source: ARRAYS OF HIGH LUMEN LEDS 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 997.3 lumens
Efficiency: N/A
Efficacy: 99.7 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

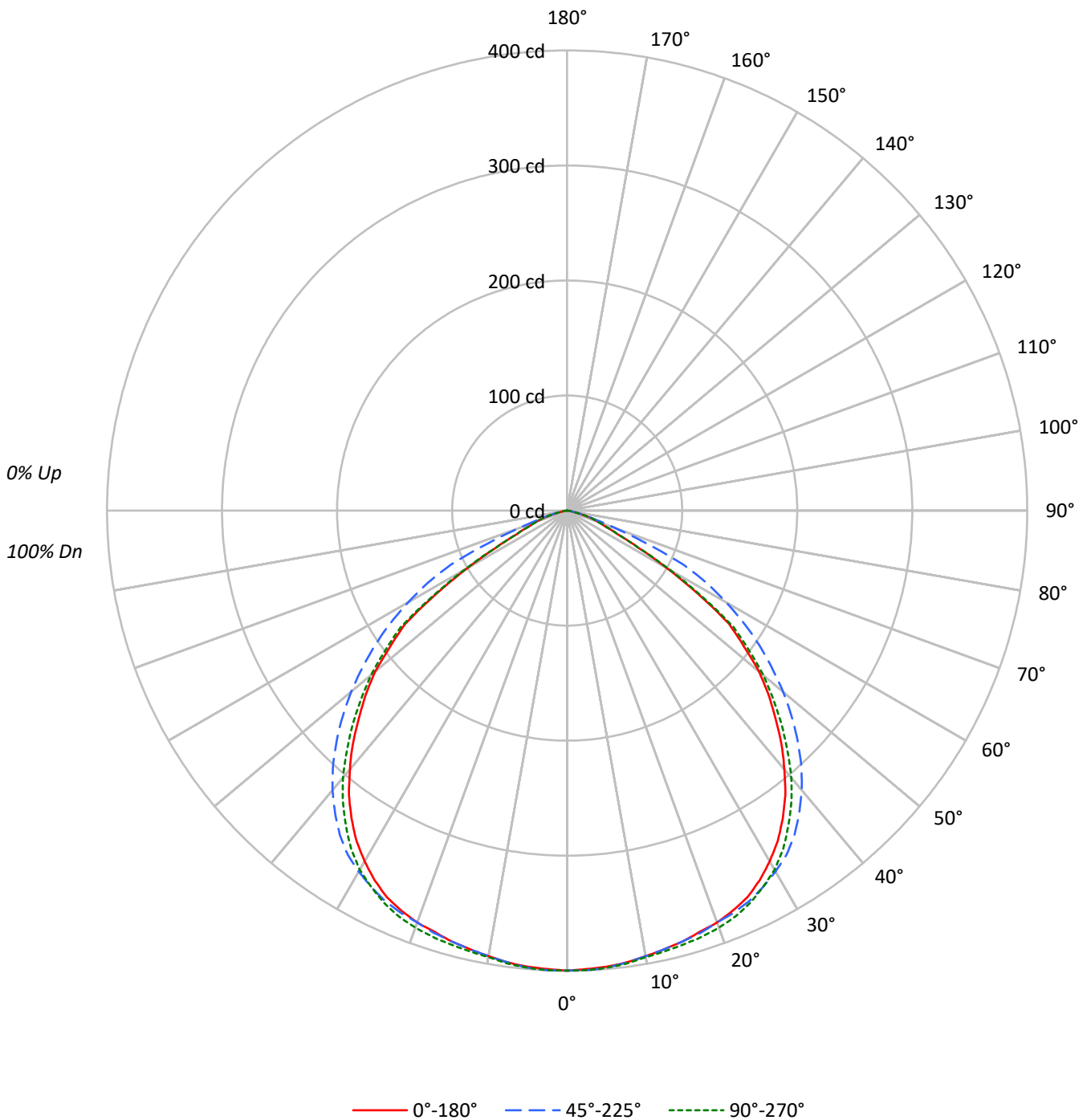
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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° | 17218 | 17218 | 17218 |
| 5° | 17202 | 17241 | 17241 |
| 10° | 17195 | 17195 | 17234 |
| 15° | 17282 | 17282 | 17406 |
| 20° | 17462 | 17462 | 17677 |
| 25° | 17615 | 17791 | 17882 |
| 30° | 17500 | 18012 | 17923 |
| 35° | 17172 | 18107 | 17613 |
| 40° | 16513 | 17834 | 17041 |
| 45° | 15606 | 17262 | 16063 |
| 50° | 14589 | 16411 | 14904 |
| 55° | 12896 | 15291 | 13249 |
| 60° | 8646 | 13743 | 8895 |
| 65° | 4880 | 11380 | 4880 |
| 70° | 3663 | 5552 | 3550 |
| 75° | 2179 | 2495 | 2346 |
| 80° | 942 | 1165 | 942 |
| 85° | 445 | 445 | 445 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 37.9 | 3.8 |
| 10°-20° | 109.9 | 11.0 |
| 20°-30° | 172.1 | 17.3 |
| 30°-40° | 210.3 | 21.1 |
| 40°-50° | 209.1 | 21.0 |
| 50°-60° | 165.1 | 16.6 |
| 60°-70° | 73.9 | 7.4 |
| 70°-80° | 17.2 | 1.7 |
| 80°-90° | 1.8 | 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° | 319.9 | 32.1 |
| 0°-40° | 530.2 | 53.2 |
| 0°-60° | 904.4 | 90.7 |
| 0°-90° | 997.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 997.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 22.5° | 45° | 67.5° | 90° | Flux |
|-----|-----|-------|-----|-------|-----|------|
| 0° | 400 | 400 | 400 | 400 | 400 | |
| 5° | 398 | 398 | 399 | 399 | 399 | 38 |
| 15° | 388 | 387 | 388 | 389 | 390 | 110 |
| 25° | 371 | 372 | 374 | 376 | 376 | 170 |
| 35° | 327 | 333 | 344 | 340 | 335 | 204 |
| 45° | 256 | 268 | 284 | 275 | 264 | 198 |
| 55° | 172 | 185 | 204 | 189 | 176 | 147 |
| 65° | 48 | 63 | 112 | 64 | 48 | 54 |
| 75° | 13 | 16 | 15 | 16 | 14 | 15 |
| 85° | 1 | 1 | 1 | 1 | 1 | 2 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° |
|-------|-------|-------|-------|-------|-------|
| 0° | 399.9 | 399.9 | 399.9 | 399.9 | 399.9 |
| 2.5° | 398.9 | 399.9 | 399.9 | 399.9 | 399.9 |
| 5° | 398.0 | 398.0 | 398.9 | 398.9 | 398.9 |
| 7.5° | 396.1 | 396.1 | 396.1 | 397.1 | 397.1 |
| 10° | 393.3 | 393.3 | 393.3 | 394.2 | 394.2 |
| 12.5° | 390.5 | 390.5 | 390.5 | 391.4 | 392.4 |
| 15° | 387.7 | 386.7 | 387.7 | 388.6 | 390.5 |
| 17.5° | 383.9 | 384.9 | 384.9 | 386.7 | 388.6 |
| 20° | 381.1 | 381.1 | 381.1 | 383.9 | 385.8 |
| 22.5° | 376.4 | 376.4 | 378.3 | 380.2 | 382.0 |
| 25° | 370.8 | 371.7 | 374.5 | 375.5 | 376.4 |
| 27.5° | 362.3 | 365.1 | 368.9 | 369.8 | 368.9 |
| 30° | 352.0 | 355.8 | 362.3 | 361.4 | 360.5 |
| 32.5° | 340.7 | 345.4 | 354.8 | 352.0 | 349.2 |
| 35° | 326.7 | 333.2 | 344.5 | 339.8 | 335.1 |
| 37.5° | 311.6 | 320.1 | 331.4 | 326.7 | 320.1 |
| 40° | 293.8 | 304.1 | 317.3 | 310.7 | 303.2 |
| 42.5° | 276.0 | 287.2 | 301.3 | 292.9 | 283.5 |
| 45° | 256.3 | 268.5 | 283.5 | 275.0 | 263.8 |
| 47.5° | 237.5 | 249.7 | 264.7 | 254.4 | 243.1 |
| 50° | 217.8 | 229.0 | 245.0 | 233.7 | 222.5 |
| 52.5° | 193.4 | 208.4 | 224.3 | 212.1 | 199.0 |
| 55° | 171.8 | 184.9 | 203.7 | 188.7 | 176.5 |
| 57.5° | 135.2 | 161.5 | 182.1 | 164.3 | 138.9 |
| 60° | 100.4 | 125.8 | 159.6 | 129.5 | 103.3 |
| 62.5° | 69.5 | 92.9 | 137.0 | 93.9 | 70.4 |
| 65° | 47.9 | 62.9 | 111.7 | 63.8 | 47.9 |
| 67.5° | 35.7 | 42.2 | 75.1 | 42.2 | 35.7 |
| 70° | 29.1 | 31.0 | 44.1 | 31.0 | 28.2 |
| 72.5° | 21.6 | 24.4 | 24.4 | 24.4 | 22.5 |
| 75° | 13.1 | 16.0 | 15.0 | 16.0 | 14.1 |
| 77.5° | 5.6 | 7.5 | 9.4 | 8.4 | 5.6 |
| 80° | 3.8 | 3.8 | 4.7 | 3.8 | 3.8 |
| 82.5° | 2.8 | 2.8 | 2.8 | 2.8 | 2.8 |
| 85° | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| 87.5° | 0.9 | 0.9 | 0.9 | 0.9 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)