

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: P303445

Luminaire Tested: **PR6FS12D010 PR6M12WD8FSBZ 1500Lm4000K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P303445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR6FS12D010 PR6M12WD8FSBZ 1500Lm4000K
Description: PR6 WIDE LENS WITH, BRONZE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1459.1 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.32 / 1.26
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

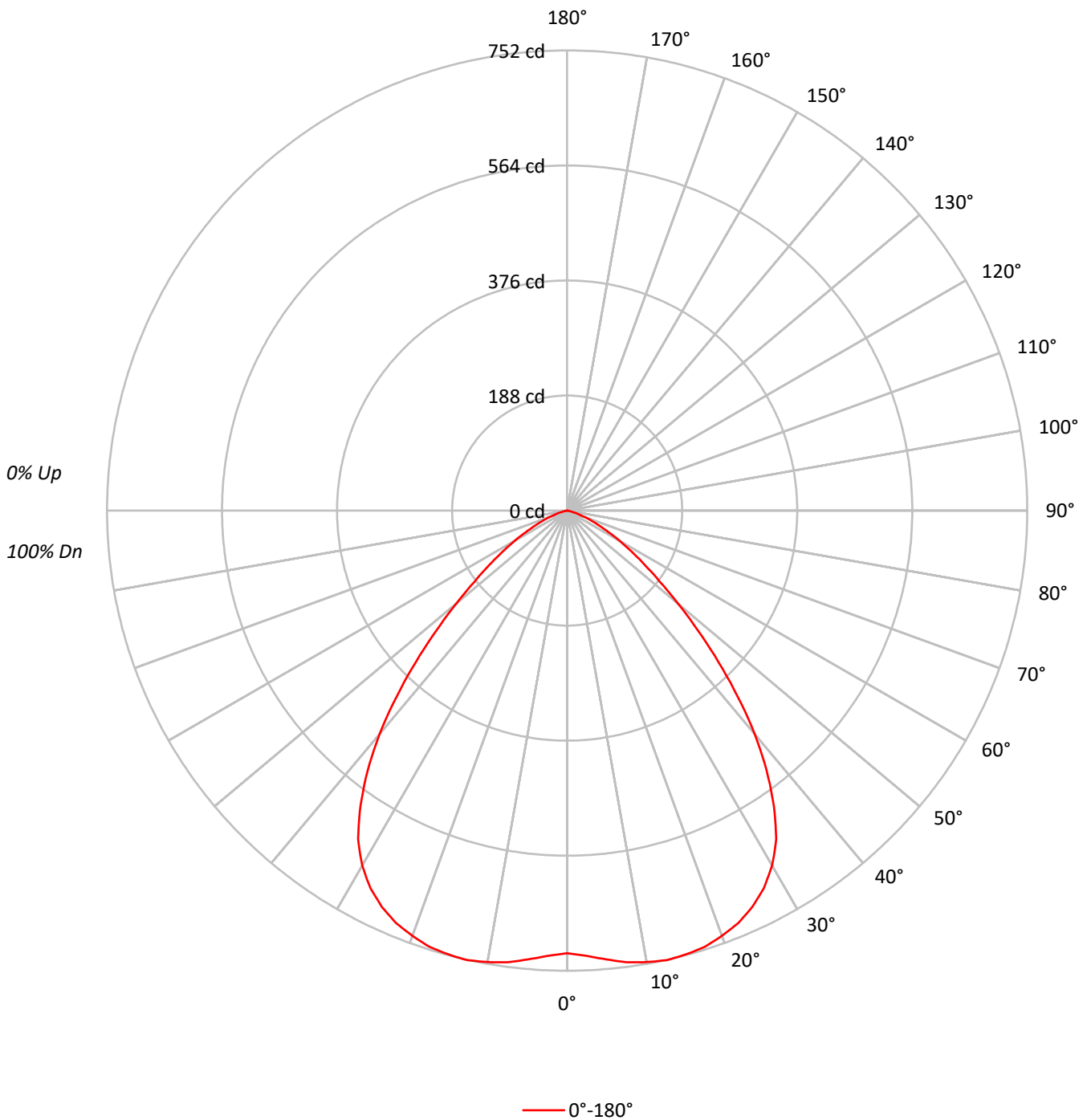
Input Watts (W): 13.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 112 | 108 | 105 | 102 | 109 | 106 | 103 | 101 | 102 | 100 | 98 | | 98 | 96 | 95 | | 95 | 93 | 92 | 90 |
| 2 | 104 | 98 | 93 | 88 | 102 | 96 | 91 | 87 | 93 | 89 | 85 | | 90 | 86 | 83 | | 87 | 84 | 82 | 80 |
| 3 | 97 | 88 | 82 | 77 | 95 | 87 | 81 | 76 | 84 | 79 | 75 | | 82 | 77 | 74 | | 79 | 76 | 73 | 71 |
| 4 | 90 | 80 | 73 | 68 | 88 | 79 | 72 | 67 | 77 | 71 | 66 | | 75 | 70 | 66 | | 73 | 68 | 65 | 63 |
| 5 | 84 | 73 | 66 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | | 68 | 63 | 59 | | 67 | 62 | 58 | 56 |
| 6 | 78 | 67 | 59 | 54 | 76 | 66 | 59 | 53 | 64 | 58 | 53 | | 63 | 57 | 53 | | 61 | 56 | 52 | 50 |
| 7 | 73 | 61 | 54 | 48 | 71 | 61 | 53 | 48 | 59 | 53 | 48 | | 58 | 52 | 48 | | 56 | 51 | 47 | 46 |
| 8 | 68 | 56 | 49 | 44 | 67 | 56 | 49 | 44 | 55 | 48 | 43 | | 53 | 48 | 43 | | 52 | 47 | 43 | 41 |
| 9 | 64 | 52 | 45 | 40 | 63 | 52 | 45 | 40 | 51 | 44 | 40 | | 50 | 44 | 40 | | 49 | 43 | 39 | 38 |
| 10 | 60 | 48 | 41 | 37 | 59 | 48 | 41 | 37 | 47 | 41 | 36 | | 46 | 40 | 36 | | 45 | 40 | 36 | 35 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 47189 |
| 5° | 48220 |
| 10° | 49632 |
| 15° | 50717 |
| 20° | 51342 |
| 25° | 51491 |
| 30° | 50466 |
| 35° | 46910 |
| 40° | 40658 |
| 45° | 32246 |
| 50° | 23984 |
| 55° | 17664 |
| 60° | 12878 |
| 65° | 8737 |
| 70° | 5551 |
| 75° | 2445 |
| 80° | 601 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 70.7 | 4.8 |
| 10°-20° | 212.1 | 14.5 |
| 20°-30° | 328.3 | 22.5 |
| 30°-40° | 364.2 | 25.0 |
| 40°-50° | 270.2 | 18.5 |
| 50°-60° | 142.0 | 9.7 |
| 60°-70° | 58.8 | 4.0 |
| 70°-80° | 12.5 | 0.9 |
| 80°-90° | 0.2 | 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° | 611.2 | 41.9 |
| 0°-40° | 975.4 | 66.8 |
| 0°-60° | 1387.6 | 95.1 |
| 0°-90° | 1459.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1459.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 723 | |
| 5° | 736 | 71 |
| 15° | 751 | 212 |
| 25° | 715 | 328 |
| 35° | 589 | 364 |
| 45° | 350 | 270 |
| 55° | 155 | 142 |
| 65° | 57 | 59 |
| 75° | 10 | 12 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 723.3 |
| 2.5° | 728.2 |
| 5° | 736.3 |
| 7.5° | 744.4 |
| 10° | 749.2 |
| 12.5° | 752.5 |
| 15° | 750.9 |
| 17.5° | 747.6 |
| 20° | 739.5 |
| 22.5° | 729.8 |
| 25° | 715.3 |
| 27.5° | 695.8 |
| 30° | 669.9 |
| 32.5° | 636.0 |
| 35° | 589.0 |
| 37.5° | 535.6 |
| 40° | 477.4 |
| 42.5° | 412.6 |
| 45° | 349.5 |
| 47.5° | 289.7 |
| 50° | 236.3 |
| 52.5° | 191.0 |
| 55° | 155.3 |
| 57.5° | 124.6 |
| 60° | 98.7 |
| 62.5° | 76.1 |
| 65° | 56.6 |
| 67.5° | 42.1 |
| 70° | 29.1 |
| 72.5° | 19.4 |
| 75° | 9.7 |
| 77.5° | 3.2 |
| 80° | 1.6 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)