

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: P303612

Luminaire Tested: **PR6FS12D010 PR6M12MD8FSMW 2000Lm3500K**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P303612
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1903-195-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: HALO COMMERCIAL
Catalog Number: PR6FS12D010 PR6M12MD8FSMW 2000Lm3500K
Description: PR6 MEDIUM LENS WITH, MATTE WHITE FINISH
Light Source: ARRAY OF HIGH LUMEN LEDs 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2703.0 lumens
Efficiency: N/A
Efficacy: 132.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.2 / 1.25
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

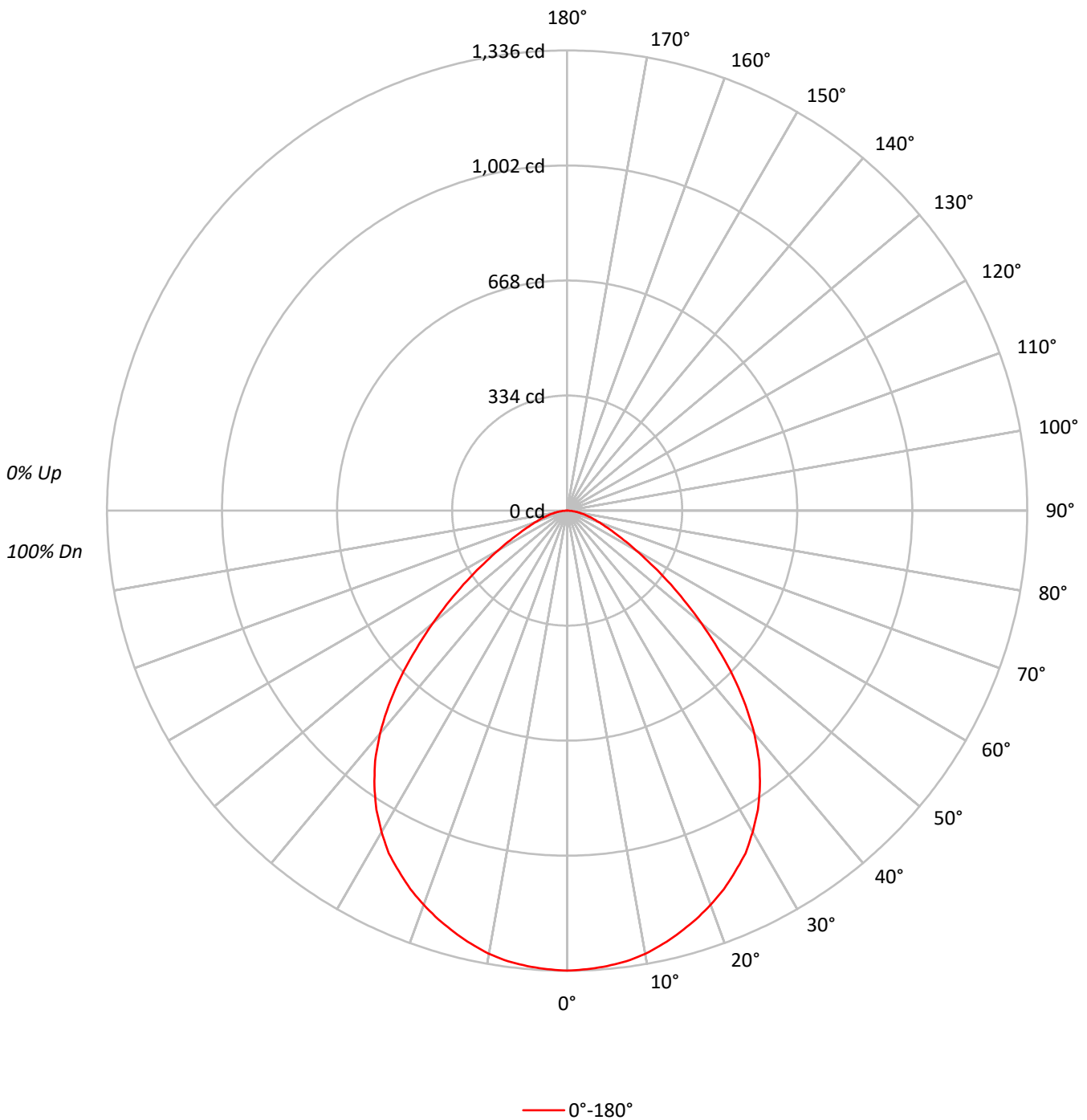
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 92 | 90 | 88 |
| 2 | 103 | 96 | 90 | 85 | 100 | 94 | 89 | 84 | 91 | 86 | 83 | 87 | 84 | 81 | 85 | 82 | 79 | 77 |
| 3 | 95 | 86 | 79 | 74 | 93 | 85 | 78 | 73 | 82 | 76 | 72 | 79 | 74 | 71 | 77 | 73 | 69 | 67 |
| 4 | 88 | 78 | 70 | 64 | 86 | 76 | 69 | 64 | 74 | 68 | 63 | 72 | 66 | 62 | 70 | 65 | 61 | 59 |
| 5 | 82 | 70 | 62 | 57 | 80 | 69 | 62 | 56 | 67 | 61 | 56 | 65 | 60 | 55 | 64 | 59 | 55 | 53 |
| 6 | 76 | 64 | 56 | 50 | 74 | 63 | 56 | 50 | 61 | 55 | 50 | 60 | 54 | 49 | 58 | 53 | 49 | 47 |
| 7 | 71 | 59 | 51 | 45 | 69 | 58 | 50 | 45 | 56 | 50 | 45 | 55 | 49 | 44 | 54 | 48 | 44 | 42 |
| 8 | 66 | 54 | 46 | 41 | 65 | 53 | 46 | 41 | 52 | 45 | 40 | 51 | 45 | 40 | 50 | 44 | 40 | 38 |
| 9 | 62 | 50 | 42 | 37 | 61 | 49 | 42 | 37 | 48 | 41 | 37 | 47 | 41 | 37 | 46 | 40 | 36 | 35 |
| 10 | 58 | 46 | 39 | 34 | 57 | 46 | 38 | 34 | 45 | 38 | 34 | 44 | 38 | 33 | 43 | 37 | 33 | 32 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 87129 |
| 5° | 86944 |
| 10° | 86572 |
| 15° | 85616 |
| 20° | 84570 |
| 25° | 83179 |
| 30° | 81149 |
| 35° | 77693 |
| 40° | 71973 |
| 45° | 63053 |
| 50° | 51621 |
| 55° | 40345 |
| 60° | 30285 |
| 65° | 22955 |
| 70° | 18407 |
| 75° | 15780 |
| 80° | 13713 |
| 85° | 9731 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 126.1 | 4.7 |
| 10°-20° | 357.5 | 13.2 |
| 20°-30° | 532.1 | 19.7 |
| 30°-40° | 606.9 | 22.5 |
| 40°-50° | 523.4 | 19.4 |
| 50°-60° | 320.5 | 11.9 |
| 60°-70° | 152.6 | 5.6 |
| 70°-80° | 67.7 | 2.5 |
| 80°-90° | 16.3 | 0.6 |
| 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° | 1015.7 | 37.6 |
| 0°-40° | 1622.6 | 60.0 |
| 0°-60° | 2466.5 | 91.2 |
| 0°-90° | 2703.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2703.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1336 | |
| 5° | 1328 | 126 |
| 15° | 1268 | 358 |
| 25° | 1156 | 532 |
| 35° | 976 | 607 |
| 45° | 683 | 523 |
| 55° | 355 | 321 |
| 65° | 149 | 153 |
| 75° | 63 | 68 |
| 85° | 13 | 16 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1335.5 |
| 2.5° | 1332.9 |
| 5° | 1327.6 |
| 7.5° | 1319.8 |
| 10° | 1306.8 |
| 12.5° | 1288.5 |
| 15° | 1267.6 |
| 17.5° | 1244.2 |
| 20° | 1218.1 |
| 22.5° | 1189.4 |
| 25° | 1155.5 |
| 27.5° | 1121.6 |
| 30° | 1077.2 |
| 32.5° | 1030.3 |
| 35° | 975.5 |
| 37.5° | 915.5 |
| 40° | 845.1 |
| 42.5° | 766.8 |
| 45° | 683.4 |
| 47.5° | 594.7 |
| 50° | 508.6 |
| 52.5° | 427.8 |
| 55° | 354.7 |
| 57.5° | 286.9 |
| 60° | 232.1 |
| 62.5° | 185.2 |
| 65° | 148.7 |
| 67.5° | 120.0 |
| 70° | 96.5 |
| 72.5° | 78.2 |
| 75° | 62.6 |
| 77.5° | 49.6 |
| 80° | 36.5 |
| 82.5° | 26.1 |
| 85° | 13.0 |
| 87.5° | 2.6 |
| 90° | 0.0 |

(END OF REPORT)