

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: LUMIERE

Report Number: G2-1802-569-4

Luminaire Tested: **203-SS-8LED4010-12-BK**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-4
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/06/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-SS-8LED4010-12-BK
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 10 DEGREE SPOT OPTIC, REGRESSED HOOD BLACK
Light Source: (1) SORAA 4000K 95 CRI 10°NSP LED SM16-07-10D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 298.5 lumens
Efficiency: N/A
Efficacy: 37.3 lumens/watt
Spacing Criteria (0/90/45): 0.21 / 0.21 / 0.19
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

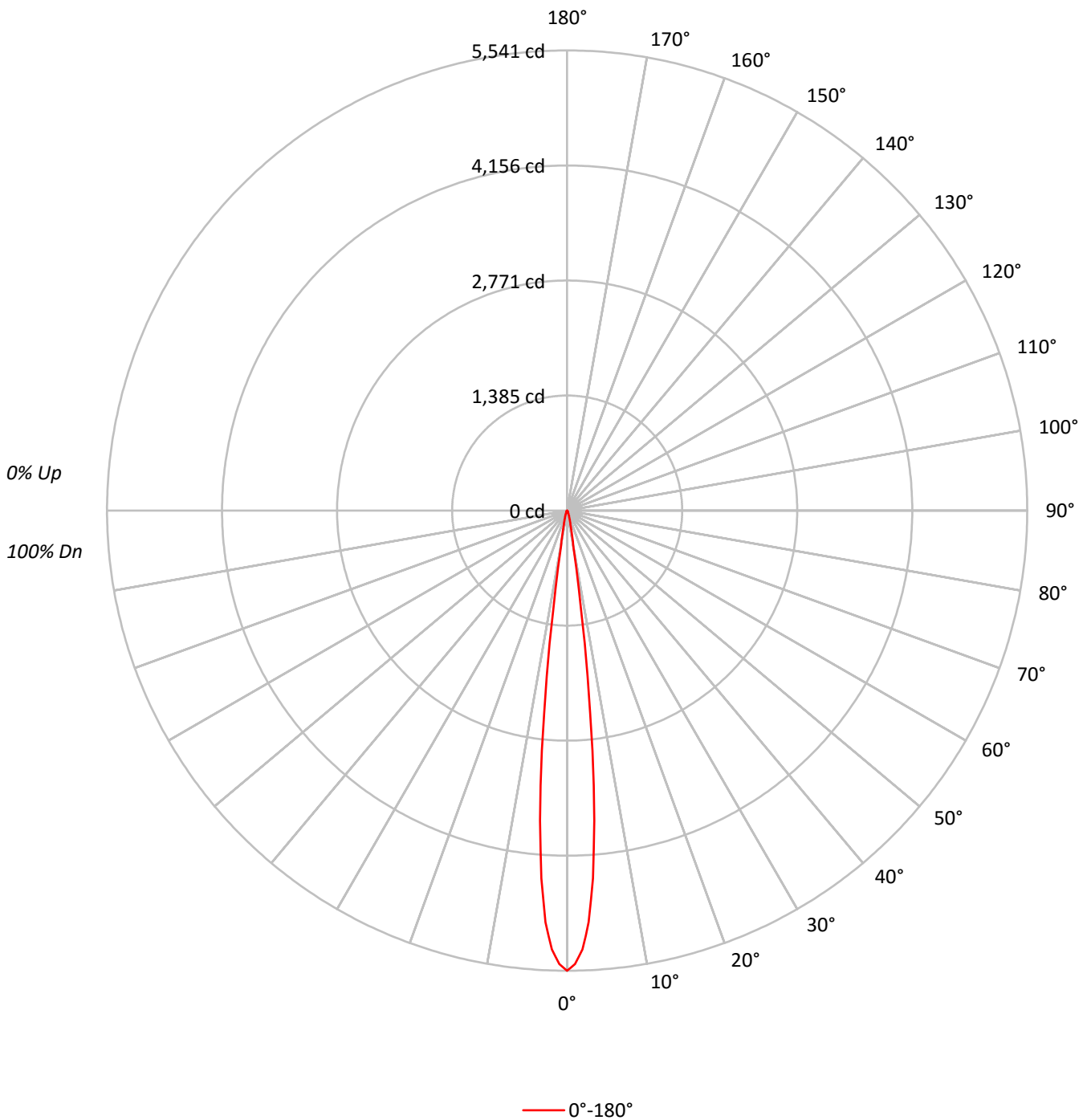
Input Watts (W): 8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.709
Voltage Rise (V): NR
Power Factor: 0.9469
Total Harmonic Distortion (THDi): 27.5
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.9
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-4

CATALOG NUMBER: 203-SS-8LED4010-12-BK

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-4

CATALOG NUMBER: 203-SS-8LED4010-12-BK

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 | 116 | 114 | 113 | 111 | 114 | 112 | 111 | 109 | 108 | 107 | 106 | 105 | 104 | 103 | 101 | 101 | 100 | 98 |
| 2 | 113 | 110 | 108 | 106 | 111 | 109 | 106 | 105 | 106 | 104 | 102 | 103 | 101 | 100 | 100 | 99 | 98 | 97 |
| 3 | 111 | 107 | 104 | 102 | 109 | 106 | 103 | 101 | 103 | 101 | 99 | 101 | 99 | 98 | 99 | 98 | 97 | 95 |
| 4 | 108 | 104 | 101 | 99 | 107 | 103 | 100 | 98 | 101 | 99 | 97 | 100 | 98 | 96 | 98 | 96 | 95 | 94 |
| 5 | 106 | 102 | 99 | 96 | 105 | 101 | 98 | 96 | 100 | 97 | 95 | 98 | 96 | 95 | 97 | 95 | 94 | 93 |
| 6 | 105 | 100 | 97 | 95 | 104 | 99 | 96 | 94 | 98 | 96 | 94 | 97 | 95 | 93 | 96 | 94 | 93 | 92 |
| 7 | 103 | 98 | 95 | 93 | 102 | 98 | 95 | 93 | 97 | 94 | 92 | 96 | 94 | 92 | 95 | 93 | 92 | 91 |
| 8 | 101 | 97 | 94 | 92 | 101 | 96 | 94 | 92 | 95 | 93 | 91 | 95 | 93 | 91 | 94 | 92 | 91 | 90 |
| 9 | 100 | 95 | 93 | 91 | 99 | 95 | 92 | 90 | 94 | 92 | 90 | 94 | 92 | 90 | 93 | 91 | 90 | 89 |
| 10 | 99 | 94 | 91 | 90 | 98 | 94 | 91 | 90 | 93 | 91 | 89 | 93 | 91 | 89 | 92 | 90 | 89 | 88 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 2733816 |
| 5° | 1856250 |
| 10° | 213422 |
| 15° | 63337 |
| 20° | 28352 |
| 25° | 14698 |
| 30° | 10255 |
| 35° | 8432 |
| 40° | 7085 |
| 45° | 4884 |
| 50° | 3838 |
| 55° | 2581 |
| 60° | 987 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: G2-1802-569-4

CATALOG NUMBER: 203-SS-8LED4010-12-BK

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 226.2 | 75.8 |
| 10°-20° | 41.7 | 14.0 |
| 20°-30° | 13.5 | 4.5 |
| 30°-40° | 8.6 | 2.9 |
| 40°-50° | 5.7 | 1.9 |
| 50°-60° | 2.4 | 0.8 |
| 60°-70° | 0.4 | 0.1 |
| 70°-80° | 0.0 | 0.0 |
| 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° | 281.3 | 94.2 |
| 0°-40° | 290.0 | 97.1 |
| 0°-60° | 298.2 | 99.9 |
| 0°-90° | 298.5 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 298.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 5541 | |
| 5° | 3748 | 226 |
| 15° | 124 | 42 |
| 25° | 27 | 13 |
| 35° | 14 | 9 |
| 45° | 7 | 6 |
| 55° | 3 | 2 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: G2-1802-569-4

CATALOG NUMBER: 203-SS-8LED4010-12-BK

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|------|
| 0° | 5541 |
| 1° | 5462 |
| 2° | 5286 |
| 3° | 4964 |
| 4° | 4438 |
| 5° | 3748 |
| 6° | 2905 |
| 7° | 2011 |
| 8° | 1218 |
| 9° | 697 |
| 10° | 426 |
| 12.5° | 202 |
| 15° | 124 |
| 17.5° | 87 |
| 20° | 54 |
| 22.5° | 35 |
| 25° | 27 |
| 27.5° | 22 |
| 30° | 18 |
| 32.5° | 15 |
| 35° | 14 |
| 37.5° | 12 |
| 40° | 11 |
| 42.5° | 9 |
| 45° | 7 |
| 47.5° | 6 |
| 50° | 5 |
| 52.5° | 3 |
| 55° | 3 |
| 57.5° | 2 |
| 60° | 1 |
| 62.5° | 1 |
| 65° | 0 |
| 67.5° | 0 |
| 70° | 0 |
| 72.5° | 0 |
| 75° | 0 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)