

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: G2-1802-569-16

Luminaire Tested: **203-FL-8LED4025-12-BK-DIFF**

Test Date: 04/04/18

Test Information

Test Method: LM-79-08
Report Number: G2-1802-569-16
Test Lab: INNOVATION CENTER(G2)
Test Date: 04/04/18
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 203-FL-8LED4025-12-BK-DIFF
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, FLUSH HOOD BLACK, DIFFUSED LENS
Light Source: (1) SORAA 4000K 90 CRI 25° NFL LED SM16-07-25D-940-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

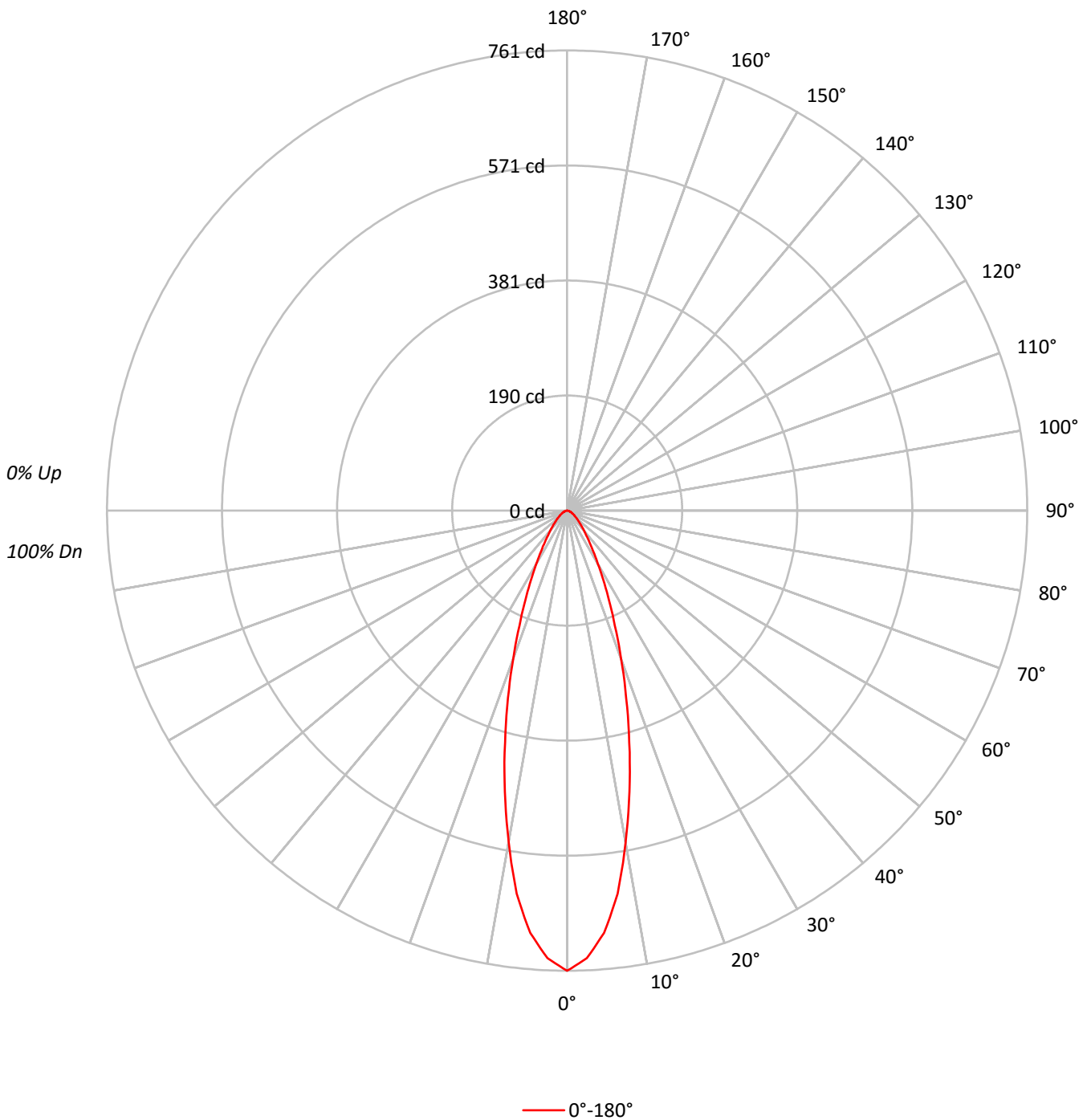
Lumens per Lamp: N/A
Luminaire Lumens: 338.6 lumens
Efficiency: N/A
Efficacy: 43.4 lumens/watt
Spacing Criteria (0/90/45): 0.51 / 0.51 / 0.55
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 7.8
Input Voltage (V): 12.0
Input Current (A_{in}): 0.686
Voltage Rise (V): NR
Power Factor: 0.9485
Total Harmonic Distortion (THDi): 27.3%
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 9 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



TEST NUMBER: G2-1802-569-16
CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

Luminous Intensity Polar Plot





TEST NUMBER: G2-1802-569-16

CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

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 | 113 | 111 | 108 | 106 | 111 | 108 | 106 | 104 | 104 | 103 | 101 | 101 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 108 | 103 | 99 | 95 | 106 | 101 | 97 | 94 | 98 | 95 | 92 | 95 | 92 | 90 | 92 | 90 | 88 | 87 |
| 3 | 102 | 96 | 91 | 87 | 101 | 95 | 90 | 86 | 92 | 88 | 85 | 90 | 86 | 84 | 87 | 85 | 82 | 81 |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 79 | 75 | 82 | 78 | 74 | 81 | 76 | 73 | 79 | 75 | 73 | 71 |
| 6 | 89 | 80 | 74 | 70 | 87 | 79 | 74 | 70 | 78 | 73 | 70 | 77 | 72 | 69 | 75 | 72 | 69 | 67 |
| 7 | 85 | 76 | 70 | 66 | 84 | 75 | 70 | 66 | 74 | 69 | 66 | 73 | 69 | 65 | 72 | 68 | 65 | 64 |
| 8 | 81 | 72 | 67 | 63 | 80 | 72 | 66 | 63 | 71 | 66 | 62 | 70 | 65 | 62 | 69 | 65 | 62 | 60 |
| 9 | 78 | 69 | 63 | 60 | 77 | 68 | 63 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 59 | 58 |
| 10 | 75 | 66 | 60 | 57 | 74 | 65 | 60 | 57 | 65 | 60 | 57 | 64 | 59 | 56 | 63 | 59 | 56 | 55 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 375462 |
| 5° | 347180 |
| 10° | 279052 |
| 15° | 202781 |
| 20° | 136511 |
| 25° | 88735 |
| 30° | 58110 |
| 35° | 39150 |
| 40° | 27695 |
| 45° | 20932 |
| 50° | 16119 |
| 55° | 12903 |
| 60° | 10854 |
| 65° | 9339 |
| 70° | 7213 |
| 75° | 5719 |
| 80° | 2841 |
| 85° | 0 |



TEST NUMBER: G2-1802-569-16

CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 62.4 | 18.4 |
| 10°-20° | 109.5 | 32.3 |
| 20°-30° | 76.5 | 22.6 |
| 30°-40° | 41.9 | 12.4 |
| 40°-50° | 23.6 | 7.0 |
| 50°-60° | 13.8 | 4.1 |
| 60°-70° | 7.7 | 2.3 |
| 70°-80° | 3.2 | 0.9 |
| 80°-90° | 0.1 | 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° | 248.3 | 73.3 |
| 0°-40° | 290.3 | 85.7 |
| 0°-60° | 327.7 | 96.8 |
| 0°-90° | 338.6 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 338.6 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 761 | |
| 5° | 701 | 62 |
| 15° | 397 | 110 |
| 25° | 163 | 76 |
| 35° | 65 | 42 |
| 45° | 30 | 24 |
| 55° | 15 | 14 |
| 65° | 8 | 8 |
| 75° | 3 | 3 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: G2-1802-569-16

CATALOG NUMBER: 203-FL-8LED4025-12-BK-DIFF

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-----|
| 0° | 761 |
| 2.5° | 741 |
| 5° | 701 |
| 7.5° | 639 |
| 10° | 557 |
| 12.5° | 476 |
| 15° | 397 |
| 17.5° | 325 |
| 20° | 260 |
| 22.5° | 206 |
| 25° | 163 |
| 27.5° | 129 |
| 30° | 102 |
| 32.5° | 81 |
| 35° | 65 |
| 37.5° | 53 |
| 40° | 43 |
| 42.5° | 36 |
| 45° | 30 |
| 47.5° | 25 |
| 50° | 21 |
| 52.5° | 18 |
| 55° | 15 |
| 57.5° | 13 |
| 60° | 11 |
| 62.5° | 9 |
| 65° | 8 |
| 67.5° | 6 |
| 70° | 5 |
| 72.5° | 4 |
| 75° | 3 |
| 77.5° | 2 |
| 80° | 1 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |

(END OF REPORT)