

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: P277794

Luminaire Tested: **203-SS-8LED4025-12-BK-LVR**

Test Date: 04/06/18

Test Information

Test Method: LM-79-08
Report Number: P277794
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-30)
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-8LED4025-12-BK-LVR
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 4000K CCT, 25 DEGREE NARROW OPTIC, REGRESSED HOOD BLACK, HEX CELL LOUVER
Light Source: (1) SORAA 4000K 95 CRI LED
SM16-07-25D-940-03
Ballast/Driver: (1) CHROMA POWER SUPPLY IN0004

Summary

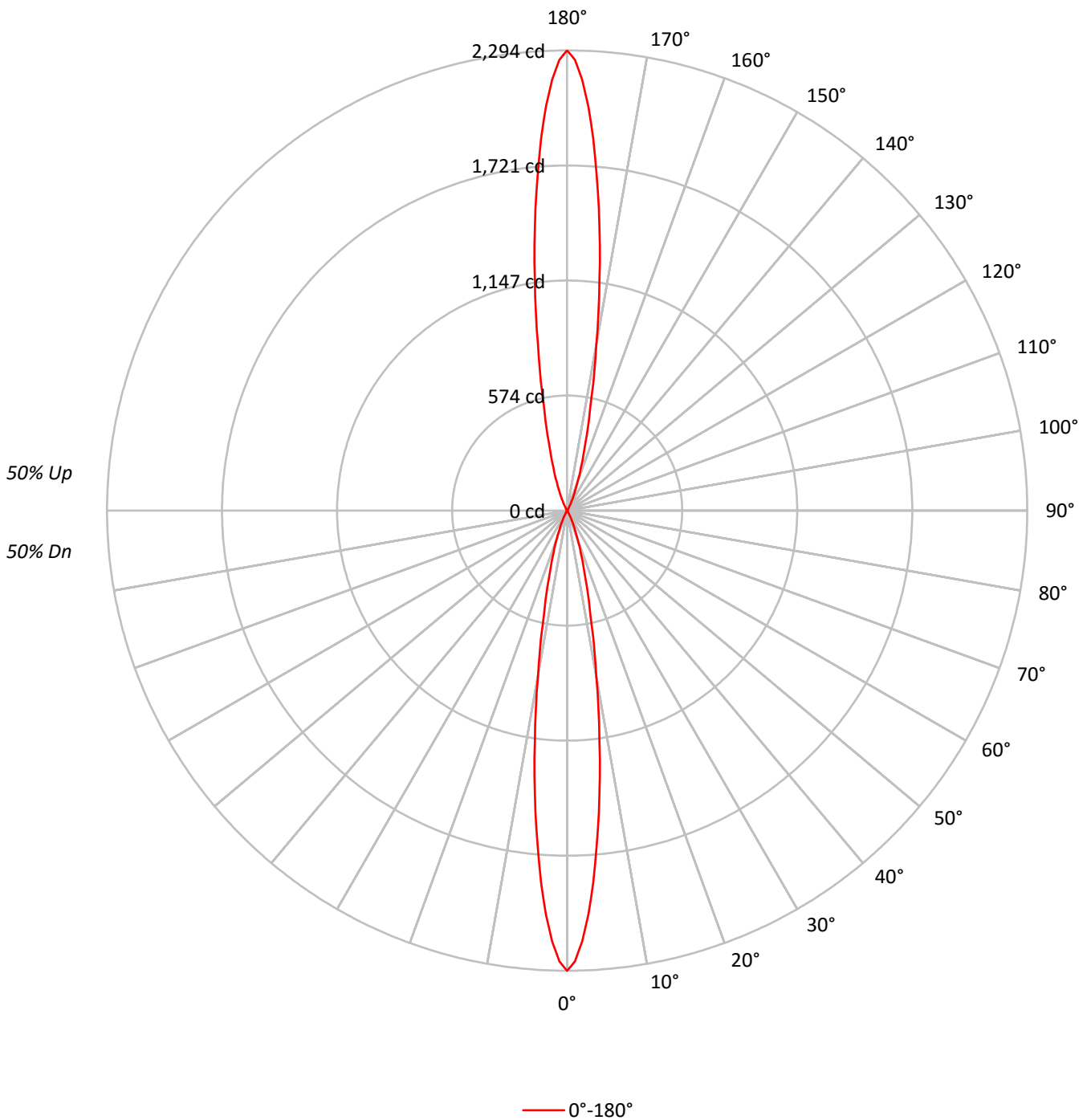
Lumens per Lamp: N/A
Luminaire Lumens: 544.8 lumens
Efficiency: N/A
Efficacy: 34.1 lumens/watt
Spacing Criteria (0/90/45): 0.28 / 0.28 / 0.3
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 16
Input Voltage (V): 12.0
Input Current (Ain): 0.693
Voltage Rise (V): NR
Power Factor: 0.991
Total Harmonic Distortion (THDi): 27.0
Frequency (hertz): 60
Stabilization Time: 0.5 HR
Operation Time: 3 HR
Ambient Temperature (°C): 25.0
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 | 0 | |
| RCR | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | 69 | 69 | 69 | 56 | 56 | 56 | 50 | | | | |
| 1 | 101 | 98 | 95 | 93 | 93 | 91 | 89 | 87 | 78 | 76 | 75 | 66 | 65 | 64 | 55 | 54 | 54 | 49 | | | | |
| 2 | 95 | 90 | 86 | 83 | 89 | 84 | 81 | 78 | 73 | 71 | 69 | 63 | 61 | 60 | 53 | 53 | 52 | 48 | | | | |
| 3 | 90 | 84 | 79 | 75 | 84 | 79 | 75 | 71 | 69 | 66 | 64 | 60 | 58 | 57 | 52 | 51 | 50 | 46 | | | | |
| 4 | 86 | 79 | 73 | 69 | 80 | 74 | 70 | 66 | 66 | 63 | 60 | 58 | 56 | 54 | 51 | 49 | 48 | 45 | | | | |
| 5 | 82 | 74 | 68 | 64 | 77 | 70 | 65 | 62 | 63 | 59 | 57 | 56 | 54 | 52 | 49 | 48 | 47 | 44 | | | | |
| 6 | 78 | 70 | 64 | 60 | 73 | 66 | 62 | 58 | 60 | 57 | 54 | 54 | 52 | 50 | 48 | 47 | 46 | 43 | | | | |
| 7 | 75 | 66 | 61 | 57 | 70 | 63 | 59 | 55 | 58 | 54 | 52 | 52 | 50 | 48 | 47 | 46 | 45 | 43 | | | | |
| 8 | 72 | 63 | 58 | 54 | 68 | 61 | 56 | 53 | 55 | 52 | 50 | 51 | 48 | 47 | 46 | 45 | 44 | 42 | | | | |
| 9 | 69 | 61 | 55 | 52 | 65 | 58 | 54 | 51 | 54 | 50 | 48 | 49 | 47 | 45 | 45 | 44 | 43 | 41 | | | | |
| 10 | 67 | 58 | 53 | 50 | 63 | 56 | 52 | 49 | 52 | 49 | 46 | 48 | 46 | 44 | 44 | 43 | 42 | 40 | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1131813 |
| 5° | 833530 |
| 10° | 420832 |
| 15° | 180307 |
| 20° | 79807 |
| 25° | 29397 |
| 30° | 8546 |
| 35° | 3614 |
| 40° | 1932 |
| 45° | 1395 |
| 50° | 768 |
| 55° | 0 |
| 60° | 0 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 133.1 | 24.4 |
| 10°-20° | 105.3 | 19.3 |
| 20°-30° | 28.3 | 5.2 |
| 30°-40° | 4.3 | 0.8 |
| 40°-50° | 1.3 | 0.2 |
| 50°-60° | 0.1 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 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° | 0.1 | 0.0 |
| 130°-140° | 1.3 | 0.2 |
| 140°-150° | 4.3 | 0.8 |
| 150°-160° | 28.3 | 5.2 |
| 160°-170° | 105.3 | 19.3 |
| 170°-180° | 133.1 | 24.4 |
| 0°-30° | 266.7 | 49.0 |
| 0°-40° | 271.0 | 49.7 |
| 0°-60° | 272.4 | 50.0 |
| 0°-90° | 272.4 | 50.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 5.7 | 1.0 |
| 90°-180° | 272.0 | 49.9 |
| 0°-180° | 544.8 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 0° | 2294 | |
| 5° | 1683 | 133 |
| 15° | 353 | 105 |
| 25° | 54 | 28 |
| 35° | 6 | 4 |
| 45° | 2 | 1 |
| 55° | 0 | 0 |
| 65° | 0 | 0 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 0 |
| 125° | 0 | 0 |
| 135° | 2 | 1 |
| 145° | 6 | 4 |
| 155° | 54 | 28 |
| 165° | 353 | 105 |
| 175° | 1683 | 133 |
| 180° | 2294 | |



TEST NUMBER: P277794

CATALOG NUMBER: 203-SS-8LED4025-12-BK-LVR

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|------|
| 0° | 2294 |
| 1° | 2247 |
| 2° | 2149 |
| 3° | 2018 |
| 4° | 1859 |
| 5° | 1683 |
| 6° | 1513 |
| 7° | 1337 |
| 8° | 1159 |
| 9° | 994 |
| 10° | 840 |
| 12.5° | 534 |
| 15° | 353 |
| 17.5° | 236 |
| 20° | 152 |
| 22.5° | 94 |
| 25° | 54 |
| 27.5° | 29 |
| 30° | 15 |
| 32.5° | 9 |
| 35° | 6 |
| 37.5° | 4 |
| 40° | 3 |
| 42.5° | 2 |
| 45° | 2 |
| 47.5° | 1 |
| 50° | 1 |
| 52.5° | 0 |
| 55° | 0 |
| 57.5° | 0 |
| 60° | 0 |
| 62.5° | 0 |
| 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 |
| 92.5° | 0 |
| 95° | 0 |



TEST NUMBER: P277794

CATALOG NUMBER: 203-SS-8LED4025-12-BK-LVR

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|------|
| 97.5° | 0 |
| 100° | 0 |
| 102.5° | 0 |
| 105° | 0 |
| 107.5° | 0 |
| 110° | 0 |
| 112.5° | 0 |
| 115° | 0 |
| 117.5° | 0 |
| 120° | 0 |
| 122.5° | 0 |
| 125° | 0 |
| 127.5° | 0 |
| 130° | 1 |
| 132.5° | 1 |
| 135° | 2 |
| 137.5° | 2 |
| 140° | 3 |
| 142.5° | 4 |
| 145° | 6 |
| 147.5° | 9 |
| 150° | 15 |
| 152.5° | 29 |
| 155° | 54 |
| 157.5° | 94 |
| 160° | 152 |
| 162.5° | 236 |
| 165° | 353 |
| 167.5° | 534 |
| 170° | 840 |
| 171° | 994 |
| 172° | 1159 |
| 173° | 1337 |
| 174° | 1513 |
| 175° | 1683 |
| 176° | 1859 |
| 177° | 2018 |
| 178° | 2149 |
| 179° | 2247 |
| 180° | 2294 |

(END OF REPORT)