

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: P247011

Luminaire Tested: **230-8LED2710-12-BK-OSL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P247011
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1802-569-27)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 230-8LED2710-12-BK-OSL
Description: CAMBRIA 203 LED LUMINAIRE, 8 WATT, 2700K CCT, 10 DEGREE SPOT OPTIC,
REGRESSED HOOD BLACK, OVERALL SPREAD LENS
Light Source: (1) SORAA 2700K 95 CRI 10°NSP LED
SM16-07-10D-927-03
Ballast/Driver: CHROMA POWER SUPPLY IN0004

Summary

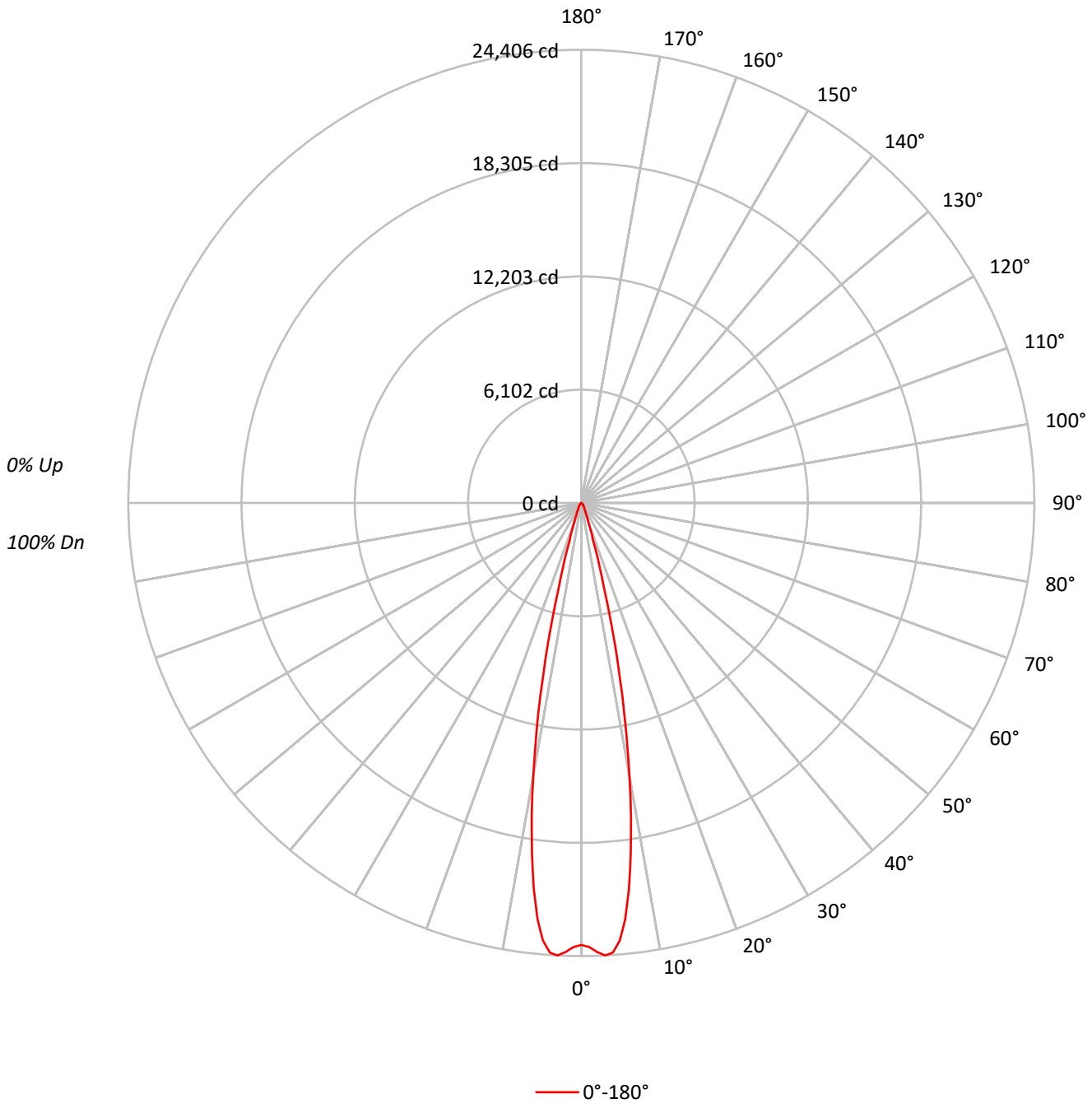
Lumens per Lamp: N/A
Luminaire Lumens: 4000.0 lumens
Efficiency: N/A
Efficacy: 500.0 lumens/watt
Spacing Criteria (0/90/45): 0.39 / 0.39 / 0.35
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: Direct

Input Watts (W): 8
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



TEST NUMBER: P247011
CATALOG NUMBER: 230-8LED2710-12-BK-OSL

Luminous Intensity Polar Plot





TEST NUMBER: P247011
 CATALOG NUMBER: 230-8LED2710-12-BK-OSL

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 | 115 | 113 | 112 | 110 | 113 | 111 | 110 | 108 | 107 | 106 | 105 | 104 | 103 | 102 | 100 | 100 | 99 | 97 |
| 2 | 112 | 109 | 106 | 103 | 110 | 107 | 104 | 102 | 104 | 102 | 100 | 101 | 99 | 98 | 98 | 97 | 96 | 95 |
| 3 | 109 | 104 | 101 | 98 | 107 | 103 | 100 | 98 | 101 | 98 | 96 | 98 | 96 | 95 | 96 | 95 | 93 | 92 |
| 4 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 94 | 98 | 95 | 93 | 96 | 94 | 92 | 94 | 92 | 91 | 90 |
| 5 | 103 | 98 | 94 | 91 | 102 | 97 | 93 | 91 | 95 | 92 | 90 | 94 | 91 | 89 | 92 | 90 | 89 | 88 |
| 6 | 101 | 95 | 91 | 88 | 99 | 94 | 91 | 88 | 93 | 90 | 88 | 92 | 89 | 87 | 91 | 88 | 87 | 86 |
| 7 | 98 | 92 | 89 | 86 | 97 | 92 | 88 | 86 | 91 | 88 | 85 | 90 | 87 | 85 | 89 | 86 | 85 | 84 |
| 8 | 96 | 90 | 86 | 84 | 95 | 90 | 86 | 84 | 89 | 86 | 83 | 88 | 85 | 83 | 87 | 85 | 83 | 82 |
| 9 | 94 | 88 | 84 | 82 | 93 | 88 | 84 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 86 | 83 | 81 | 80 |
| 10 | 92 | 86 | 83 | 80 | 91 | 86 | 82 | 80 | 85 | 82 | 80 | 85 | 82 | 80 | 84 | 82 | 80 | 79 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|----------|
| | 0° |
| 0° | 11743815 |
| 5° | 11719585 |
| 10° | 7484351 |
| 15° | 2402779 |
| 20° | 603170 |
| 25° | 274696 |
| 30° | 175640 |
| 35° | 134856 |
| 40° | 98799 |
| 45° | 78147 |
| 50° | 54190 |
| 55° | 35611 |
| 60° | 13617 |
| 65° | 0 |
| 70° | 0 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



TEST NUMBER: P247011
 CATALOG NUMBER: 230-8LED2710-12-BK-OSL

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 1959.8 | 49.0 |
| 10°-20° | 1517.6 | 37.9 |
| 20°-30° | 260.0 | 6.5 |
| 30°-40° | 137.8 | 3.4 |
| 40°-50° | 86.0 | 2.1 |
| 50°-60° | 37.2 | 0.9 |
| 60°-70° | 1.7 | 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° | 0.0 | 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° | 3737.4 | 93.4 |
| 0°-40° | 3875.2 | 96.9 |
| 0°-60° | 3998.4 | 100.0 |
| 0°-90° | 4000.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 4000.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-------|------|
| 0° | 23803 | |
| 5° | 23663 | ### |
| 15° | 4704 | 1518 |
| 25° | 505 | 260 |
| 35° | 224 | 138 |
| 45° | 112 | 86 |
| 55° | 41 | 37 |
| 65° | 0 | 2 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P247011
CATALOG NUMBER: 230-8LED2710-12-BK-OSL

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|---------|
| 0° | 23802.8 |
| 1° | 23914.8 |
| 2° | 24195.5 |
| 3° | 24405.6 |
| 4° | 24278.3 |
| 5° | 23663.3 |
| 6° | 22542.1 |
| 7° | 20988.3 |
| 8° | 19084.9 |
| 9° | 17068.0 |
| 10° | 14939.1 |
| 12.5° | 9492.6 |
| 15° | 4704.1 |
| 17.5° | 2072.1 |
| 20° | 1148.8 |
| 22.5° | 728.5 |
| 25° | 504.6 |
| 27.5° | 377.3 |
| 30° | 308.3 |
| 32.5° | 251.5 |
| 35° | 223.9 |
| 37.5° | 182.5 |
| 40° | 153.4 |
| 42.5° | 125.8 |
| 45° | 112.0 |
| 47.5° | 98.2 |
| 50° | 70.6 |
| 52.5° | 56.8 |
| 55° | 41.4 |
| 57.5° | 27.6 |
| 60° | 13.8 |
| 62.5° | 0.0 |
| 65° | 0.0 |
| 67.5° | 0.0 |
| 70° | 0.0 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)