

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: P221375

Luminaire Tested: **9002-W2-FL-LEDCB-W-BK-LC1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221375
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29549)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LEDCB-W-BK-LC1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, WIDE FLOOD OPTIC, BLACK HOUSING.
Light Source: (1) COLOR CHAGING MODULE, SET TO 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

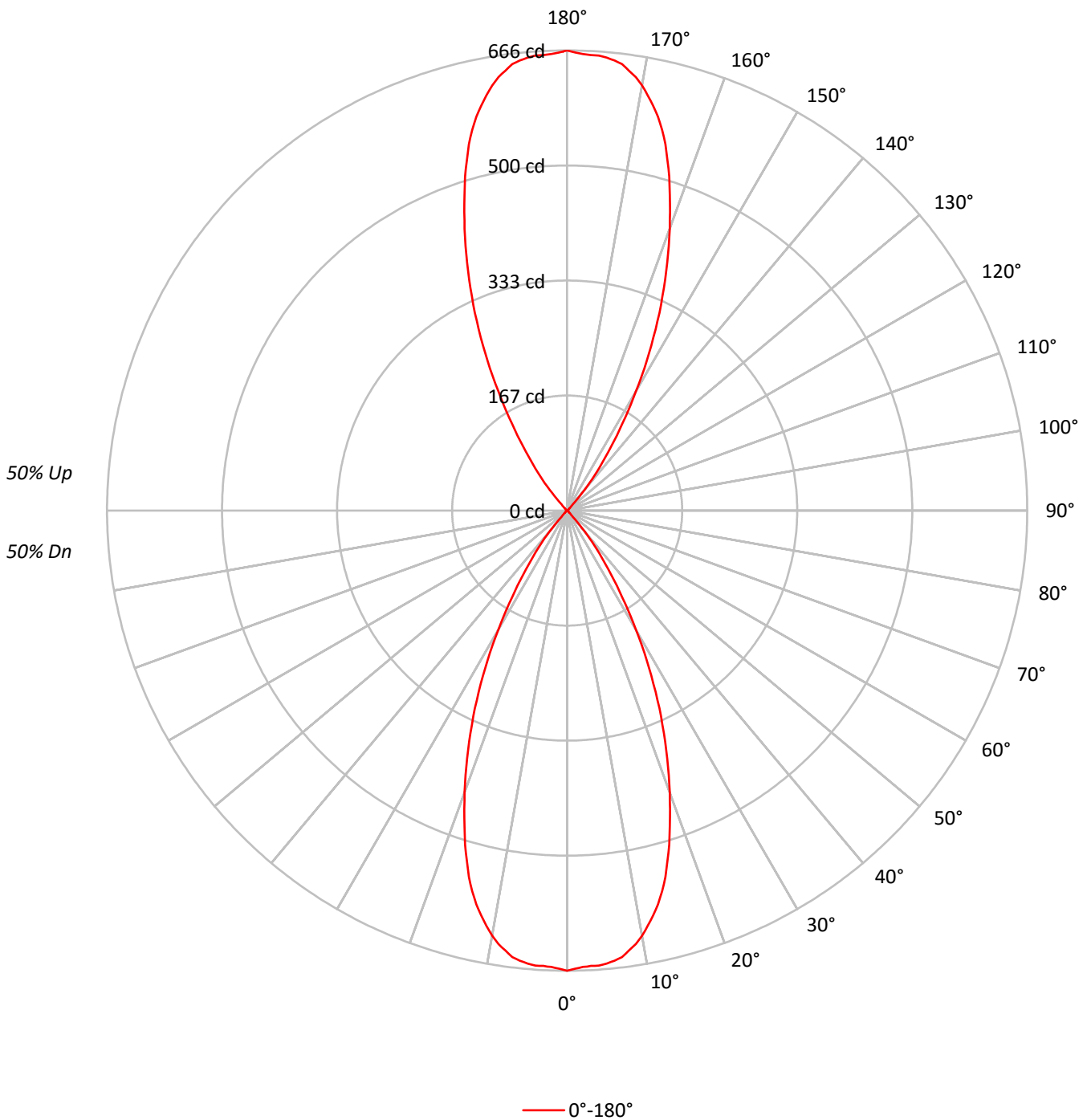
Lumens per Lamp: N/A
Luminaire Lumens: 867.9 lumens
Efficiency: N/A
Efficacy: 32.1 lumens/watt
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.76
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 27
Input Voltage (V): 120
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





TEST NUMBER: P221375

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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 | 107 | 107 | 107 | 107 | 99 | 99 | 99 | 99 | 83 | 83 | 83 | | 69 | 69 | 69 | | 56 | 56 | 56 | 50 |
| 1 | 100 | 97 | 94 | 91 | 93 | 90 | 88 | 85 | 77 | 75 | 74 | | 65 | 64 | 63 | | 54 | 53 | 52 | 47 |
| 2 | 94 | 88 | 84 | 80 | 87 | 82 | 78 | 75 | 71 | 68 | 66 | | 61 | 59 | 57 | | 51 | 50 | 49 | 44 |
| 3 | 88 | 81 | 75 | 71 | 82 | 76 | 71 | 67 | 66 | 62 | 60 | | 57 | 54 | 52 | | 48 | 47 | 46 | 42 |
| 4 | 82 | 74 | 68 | 63 | 77 | 70 | 64 | 60 | 61 | 57 | 54 | | 53 | 51 | 48 | | 46 | 44 | 43 | 39 |
| 5 | 77 | 68 | 62 | 57 | 72 | 64 | 59 | 55 | 57 | 53 | 50 | | 50 | 47 | 45 | | 44 | 42 | 40 | 37 |
| 6 | 73 | 63 | 57 | 52 | 68 | 60 | 54 | 50 | 53 | 49 | 46 | | 47 | 44 | 42 | | 41 | 39 | 38 | 35 |
| 7 | 69 | 59 | 53 | 48 | 64 | 56 | 50 | 46 | 50 | 46 | 43 | | 45 | 41 | 39 | | 39 | 37 | 36 | 33 |
| 8 | 65 | 55 | 49 | 44 | 61 | 52 | 47 | 43 | 47 | 43 | 40 | | 42 | 39 | 37 | | 38 | 35 | 34 | 32 |
| 9 | 61 | 51 | 45 | 41 | 58 | 49 | 44 | 40 | 44 | 40 | 37 | | 40 | 37 | 35 | | 36 | 34 | 32 | 30 |
| 10 | 58 | 48 | 42 | 38 | 55 | 46 | 41 | 37 | 42 | 38 | 35 | | 38 | 35 | 33 | | 34 | 32 | 30 | 29 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 328591 |
| 5° | 325884 |
| 10° | 313119 |
| 15° | 280420 |
| 20° | 227869 |
| 25° | 172025 |
| 30° | 113371 |
| 35° | 62640 |
| 40° | 25118 |
| 45° | 3489 |
| 50° | 2303 |
| 55° | 2581 |
| 60° | 987 |
| 65° | 1167 |
| 70° | 1443 |
| 75° | 1906 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 61.8 | 7.1 |
| 10°-20° | 150.5 | 17.3 |
| 20°-30° | 142.9 | 16.5 |
| 30°-40° | 67.3 | 7.8 |
| 40°-50° | 7.8 | 0.9 |
| 50°-60° | 2.0 | 0.2 |
| 60°-70° | 1.0 | 0.1 |
| 70°-80° | 0.7 | 0.1 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.0 | 0.0 |
| 100°-110° | 0.7 | 0.1 |
| 110°-120° | 1.0 | 0.1 |
| 120°-130° | 2.0 | 0.2 |
| 130°-140° | 7.8 | 0.9 |
| 140°-150° | 67.3 | 7.8 |
| 150°-160° | 142.9 | 16.5 |
| 160°-170° | 150.5 | 17.3 |
| 170°-180° | 61.8 | 7.1 |
| 0°-30° | 355.2 | 40.9 |
| 0°-40° | 422.5 | 48.7 |
| 0°-60° | 432.3 | 49.8 |
| 0°-90° | 433.9 | 50.0 |
| 90°-120° | 1.6 | 0.2 |
| 90°-150° | 78.8 | 9.1 |
| 90°-180° | 434.0 | 50.0 |
| 0°-180° | 867.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-----|------|
| 0° | 666 | |
| 5° | 658 | 62 |
| 15° | 549 | 150 |
| 25° | 316 | 143 |
| 35° | 104 | 67 |
| 45° | 5 | 8 |
| 55° | 3 | 2 |
| 65° | 1 | 1 |
| 75° | 1 | 1 |
| 85° | 0 | 0 |
| 90° | 0 | 0 |
| 95° | 0 | 0 |
| 105° | 1 | 1 |
| 115° | 1 | 1 |
| 125° | 3 | 2 |
| 135° | 5 | 8 |
| 145° | 104 | 67 |
| 155° | 316 | 143 |
| 165° | 549 | 150 |
| 175° | 658 | 62 |
| 180° | 666 | |



TEST NUMBER: P221375

CATALOG NUMBER: 9002-W2-FL-LEDCB-W-BK-LC1-UNV

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-----|
| 0° | 666 |
| 1° | 663 |
| 2° | 661 |
| 3° | 660 |
| 4° | 660 |
| 5° | 658 |
| 6° | 655 |
| 7° | 651 |
| 8° | 643 |
| 9° | 635 |
| 10° | 625 |
| 11° | 612 |
| 12° | 599 |
| 13° | 585 |
| 14° | 568 |
| 15° | 549 |
| 16° | 527 |
| 17° | 505 |
| 18° | 481 |
| 19° | 457 |
| 20° | 434 |
| 21° | 410 |
| 22° | 387 |
| 23° | 363 |
| 24° | 339 |
| 25° | 316 |
| 26° | 292 |
| 27° | 268 |
| 28° | 245 |
| 29° | 223 |
| 30° | 199 |
| 32.5° | 148 |
| 35° | 104 |
| 37.5° | 70 |
| 40° | 39 |
| 42.5° | 12 |
| 45° | 5 |
| 47.5° | 4 |
| 50° | 3 |
| 52.5° | 3 |
| 55° | 3 |
| 57.5° | 1 |
| 60° | 1 |
| 62.5° | 1 |
| 65° | 1 |



TEST NUMBER: P221375

CATALOG NUMBER: 9002-W2-FL-LEDCB-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|--------|-----|
| 67.5° | 1 |
| 70° | 1 |
| 72.5° | 1 |
| 75° | 1 |
| 77.5° | 0 |
| 80° | 0 |
| 82.5° | 0 |
| 85° | 0 |
| 87.5° | 0 |
| 90° | 0 |
| 92.5° | 0 |
| 95° | 0 |
| 97.5° | 0 |
| 100° | 0 |
| 102.5° | 0 |
| 105° | 1 |
| 107.5° | 1 |
| 110° | 1 |
| 112.5° | 1 |
| 115° | 1 |
| 117.5° | 1 |
| 120° | 1 |
| 122.5° | 1 |
| 125° | 3 |
| 127.5° | 3 |
| 130° | 3 |
| 132.5° | 4 |
| 135° | 5 |
| 137.5° | 12 |
| 140° | 39 |
| 142.5° | 70 |
| 145° | 104 |
| 147.5° | 148 |
| 150° | 199 |
| 151° | 223 |
| 152° | 245 |
| 153° | 268 |
| 154° | 292 |
| 155° | 316 |
| 156° | 339 |
| 157° | 363 |
| 158° | 387 |
| 159° | 410 |
| 160° | 434 |
| 161° | 457 |



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CATALOG NUMBER: 9002-W2-FL-LEDCB-W-BK-LC1-UNV

CANDELA DISTRIBUTION (continued):

| | 0° |
|------|-----|
| 162° | 481 |
| 163° | 505 |
| 164° | 527 |
| 165° | 549 |
| 166° | 568 |
| 167° | 585 |
| 168° | 599 |
| 169° | 612 |
| 170° | 625 |
| 171° | 635 |
| 172° | 643 |
| 173° | 651 |
| 174° | 655 |
| 175° | 658 |
| 176° | 660 |
| 177° | 660 |
| 178° | 661 |
| 179° | 663 |
| 180° | 666 |

(END OF REPORT)