

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: P253120

Luminaire Tested: **3002A-18LED2700-MFL-UNV-NBR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253120
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P22981)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 3002A-18LED2700-MFL-UNV-NBR
Description: LUMIERE MONACO INGRADE TEST FIXTURE WITH MEDIUM FLOOD OPTICS
Light Source: (7) 2700K CCT, 90 CRI LEDS
LBA-8057XPG2-2K
Ballast/Driver: (1) MAGTECH ELECTRONIC DRIVER
LP1020-24-C0700

Summary

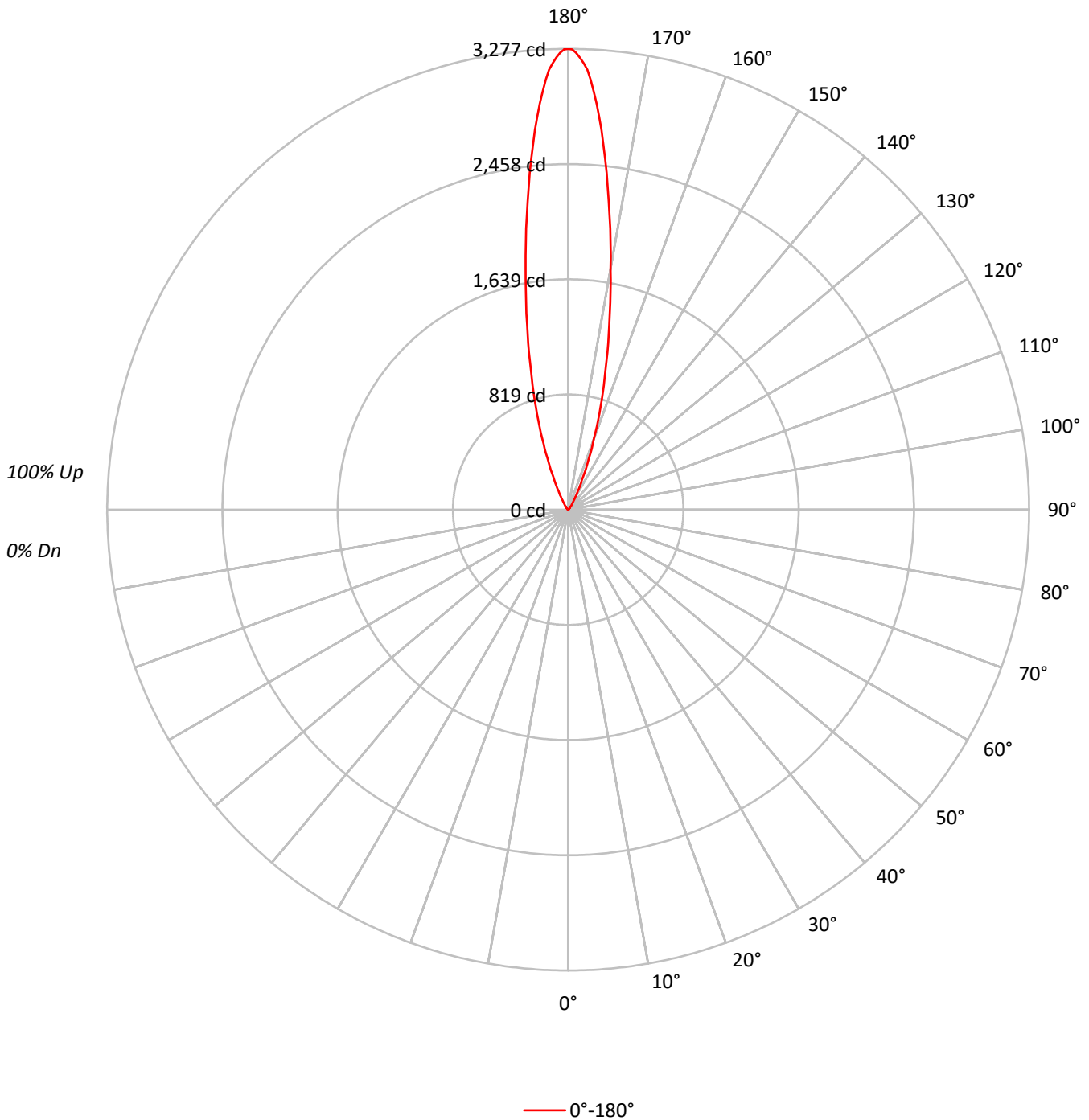
Lumens per Lamp: N/A
Luminaire Lumens: 664.7 lumens
Efficiency: N/A
Efficacy: 40.0 lumens/watt
N/A
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Indirect

Input Watts (W): 16.6
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



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 95 | 95 | 95 | 95 | 81 | 81 | 81 | 81 | 56 | 56 | 56 | 32 | 32 | 32 | 10 | 10 | 10 | 0 |
| 1 | 87 | 83 | 79 | 76 | 74 | 71 | 68 | 65 | 48 | 47 | 45 | 28 | 27 | 26 | 9 | 9 | 8 | 0 |
| 2 | 79 | 72 | 66 | 62 | 67 | 62 | 57 | 53 | 42 | 40 | 37 | 24 | 23 | 22 | 8 | 7 | 7 | 0 |
| 3 | 72 | 63 | 57 | 51 | 61 | 54 | 49 | 44 | 37 | 34 | 31 | 21 | 20 | 18 | 7 | 6 | 6 | 0 |
| 4 | 65 | 56 | 48 | 43 | 56 | 48 | 42 | 37 | 33 | 29 | 26 | 19 | 17 | 16 | 6 | 6 | 5 | 0 |
| 5 | 60 | 49 | 42 | 36 | 51 | 42 | 36 | 32 | 29 | 25 | 22 | 17 | 15 | 13 | 5 | 5 | 4 | 0 |
| 6 | 55 | 44 | 36 | 31 | 47 | 38 | 32 | 27 | 26 | 22 | 19 | 15 | 13 | 11 | 5 | 4 | 4 | 0 |
| 7 | 50 | 39 | 32 | 27 | 43 | 34 | 28 | 23 | 23 | 19 | 17 | 14 | 11 | 10 | 4 | 4 | 3 | 0 |
| 8 | 47 | 35 | 28 | 23 | 40 | 30 | 24 | 20 | 21 | 17 | 14 | 12 | 10 | 9 | 4 | 3 | 3 | 0 |
| 9 | 43 | 32 | 25 | 20 | 37 | 27 | 22 | 18 | 19 | 15 | 13 | 11 | 9 | 8 | 4 | 3 | 3 | 0 |
| 10 | 40 | 29 | 22 | 18 | 34 | 25 | 19 | 16 | 17 | 14 | 11 | 10 | 8 | 7 | 3 | 3 | 2 | 0 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|------|--------|
| | 0° |
| 95° | 0 |
| 100° | 0 |
| 105° | 221 |
| 110° | 167 |
| 115° | 136 |
| 120° | 0 |
| 125° | 100 |
| 130° | 0 |
| 135° | 1043 |
| 140° | 1664 |
| 145° | 3750 |
| 150° | 7904 |
| 155° | 18139 |
| 160° | 40750 |
| 165° | 75870 |
| 170° | 126378 |
| 175° | 194725 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 0.0 | 0.0 |
| 10°-20° | 0.0 | 0.0 |
| 20°-30° | 0.0 | 0.0 |
| 30°-40° | 0.0 | 0.0 |
| 40°-50° | 0.0 | 0.0 |
| 50°-60° | 0.0 | 0.0 |
| 60°-70° | 0.0 | 0.0 |
| 70°-80° | 0.0 | 0.0 |
| 80°-90° | 0.0 | 0.0 |
| 90°-100° | 0.4 | 0.1 |
| 100°-110° | 0.5 | 0.1 |
| 110°-120° | 1.1 | 0.2 |
| 120°-130° | 0.5 | 0.1 |
| 130°-140° | 5.4 | 0.8 |
| 140°-150° | 28.2 | 4.2 |
| 150°-160° | 116.2 | 17.5 |
| 160°-170° | 285.6 | 43.0 |
| 170°-180° | 227.0 | 34.1 |
| 0°-30° | 0.0 | 0.0 |
| 0°-40° | 0.0 | 0.0 |
| 0°-60° | 0.0 | 0.0 |
| 0°-90° | 0.0 | 0.0 |
| 90°-120° | 2.0 | 0.3 |
| 90°-150° | 36.1 | 5.4 |
| 90°-180° | 665.0 | 100.0 |
| 0°-180° | 664.7 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|------|------|
| 90° | 0 | |
| 95° | 0 | 0 |
| 105° | 1 | 1 |
| 115° | 1 | 1 |
| 125° | 1 | 1 |
| 135° | 10 | 5 |
| 145° | 43 | 28 |
| 155° | 230 | 116 |
| 165° | 1024 | 286 |
| 175° | 2709 | 227 |
| 180° | 3277 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|--------|
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.8 |
| 100° | 0.0 |
| 102.5° | 0.8 |
| 105° | 0.8 |
| 107.5° | 0.0 |
| 110° | 0.8 |
| 112.5° | 2.2 |
| 115° | 0.8 |
| 117.5° | 0.8 |
| 120° | 0.0 |
| 122.5° | 0.8 |
| 125° | 0.8 |
| 127.5° | 0.8 |
| 130° | 0.0 |
| 132.5° | 0.0 |
| 135° | 10.3 |
| 137.5° | 9.7 |
| 140° | 17.8 |
| 142.5° | 22.2 |
| 145° | 42.9 |
| 147.5° | 63.7 |
| 150° | 95.6 |
| 152.5° | 150.4 |
| 155° | 229.6 |
| 157.5° | 359.9 |
| 160° | 534.8 |
| 162.5° | 765.1 |
| 165° | 1023.5 |
| 167.5° | 1347.2 |
| 170° | 1738.2 |
| 172.5° | 2210.0 |
| 175° | 2709.2 |
| 175.5° | 2801.0 |
| 176° | 2894.4 |
| 176.5° | 2976.6 |
| 177° | 3060.3 |
| 177.5° | 3131.4 |
| 178° | 3175.8 |
| 178.5° | 3216.5 |
| 179° | 3249.1 |
| 179.5° | 3272.8 |
| 180° | 3276.6 |

(END OF REPORT)