

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: P253129

Luminaire Tested: **3002A-18LED3500-NFL-UNV-NBR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P253129
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P22980)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 3002A-18LED3500-NFL-UNV-NBR
Description: LUMIERE MONACO INGRADE TEST FIXTURE WITH NARROW FLOOD OPTICS
Light Source: (7) 3500K CCT, 80 CRI LEDS
LBA-8057XPG2-35K
Ballast/Driver: (1) MAGTECH ELECTRONIC DRIVER
LP1020-24-C0700

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1200.5 lumens
Efficiency: N/A
Efficacy: 72.3 lumens/watt
N/A
Luminous Opening: Circular (Dia: 0.44' x H: 0')
CIE Type: Indirect

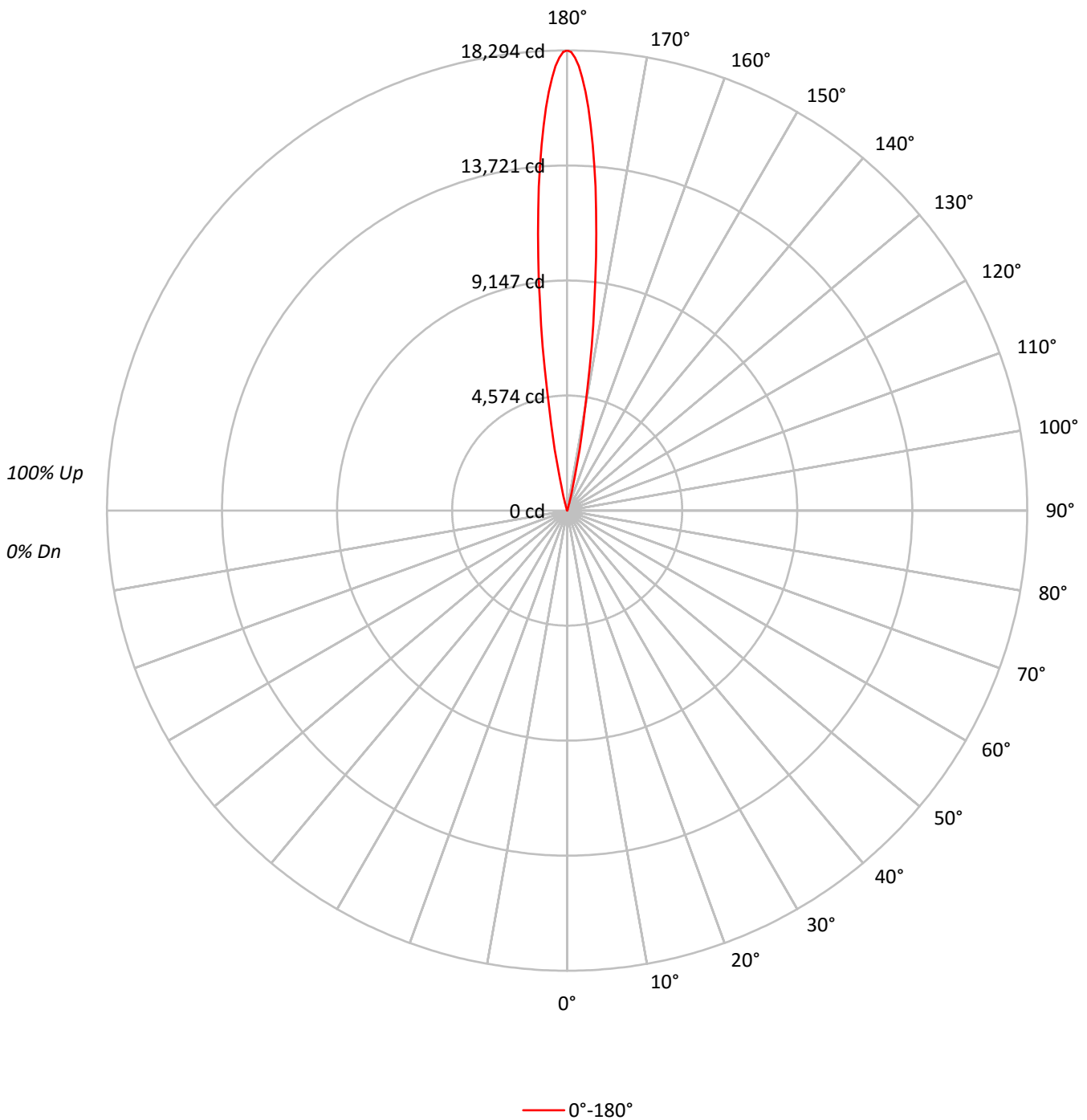
Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P253129

CATALOG NUMBER: 3002A-18LED3500-NFL-UNV-NBR

Luminous Intensity Polar Plot





TEST NUMBER: P253129

CATALOG NUMBER: 3002A-18LED3500-NFL-UNV-NBR

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° | 0 |
| 110° | 0 |
| 115° | 0 |
| 120° | 172 |
| 125° | 275 |
| 130° | 245 |
| 135° | 344 |
| 140° | 636 |
| 145° | 1198 |
| 150° | 1984 |
| 155° | 2884 |
| 160° | 3909 |
| 165° | 27071 |
| 170° | 293094 |
| 175° | 929593 |



TEST NUMBER: P253129

CATALOG NUMBER: 3002A-18LED3500-NFL-UNV-NBR

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° | 0.0 | 0.0 |
| 100°-110° | 0.0 | 0.0 |
| 110°-120° | 0.7 | 0.1 |
| 120°-130° | 1.6 | 0.1 |
| 130°-140° | 3.0 | 0.3 |
| 140°-150° | 8.7 | 0.7 |
| 150°-160° | 16.6 | 1.4 |
| 160°-170° | 228.6 | 19.0 |
| 170°-180° | 941.6 | 78.4 |
| 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° | 0.7 | 0.1 |
| 90°-150° | 14.1 | 1.2 |
| 90°-180° | 1201.0 | 100.0 |
| 0°-180° | 1200.5 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|------|-------|------|
| 90° | 0 | |
| 95° | 0 | 0 |
| 105° | 0 | 0 |
| 115° | 0 | 1 |
| 125° | 2 | 2 |
| 135° | 3 | 3 |
| 145° | 14 | 9 |
| 155° | 36 | 17 |
| 165° | 365 | 229 |
| 175° | 12933 | 942 |
| 180° | 18294 | |



TEST NUMBER: P253129

CATALOG NUMBER: 3002A-18LED3500-NFL-UNV-NBR

CANDELA DISTRIBUTION (FULL):

| | 0° |
|--------|---------|
| 90° | 0.0 |
| 92.5° | 0.0 |
| 95° | 0.0 |
| 97.5° | 0.0 |
| 100° | 0.0 |
| 102.5° | 0.0 |
| 105° | 0.0 |
| 107.5° | 0.0 |
| 110° | 0.0 |
| 112.5° | 0.0 |
| 115° | 0.0 |
| 117.5° | 1.2 |
| 120° | 1.2 |
| 122.5° | 1.2 |
| 125° | 2.2 |
| 127.5° | 2.2 |
| 130° | 2.2 |
| 132.5° | 3.4 |
| 135° | 3.4 |
| 137.5° | 4.6 |
| 140° | 6.8 |
| 142.5° | 9.1 |
| 145° | 13.7 |
| 147.5° | 18.3 |
| 150° | 24.0 |
| 152.5° | 30.8 |
| 155° | 36.5 |
| 157.5° | 41.1 |
| 160° | 51.3 |
| 162.5° | 95.8 |
| 165° | 365.2 |
| 167.5° | 1428.9 |
| 170° | 4031.2 |
| 172.5° | 8288.2 |
| 175° | 12933.4 |
| 175.5° | 13779.2 |
| 176° | 14567.8 |
| 176.5° | 15343.8 |
| 177° | 16040.1 |
| 177.5° | 16662.1 |
| 178° | 17216.8 |
| 178.5° | 17675.6 |
| 179° | 18007.7 |
| 179.5° | 18234.9 |
| 180° | 18294.1 |

(END OF REPORT)