

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: IRiS

Report Number: P108688

Luminaire Tested: **PN3LED12FL40930-E3MRC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P108688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13660)
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: PN3LED12FL40930-E3MRC
Description: IRIS 3 INCH LED FIXTURE WITH
SPECULAR CLEAR DOWNLIGHT REFLECTOR
AND 40 DEGREE PRIMARY OPTIC, 0 DEGREE AIMING ANGLE
Light Source: (1) 3000K 90CRI LED
Ballast/Driver: (1) 450mA ELECTRONIC DRIVER

Summary

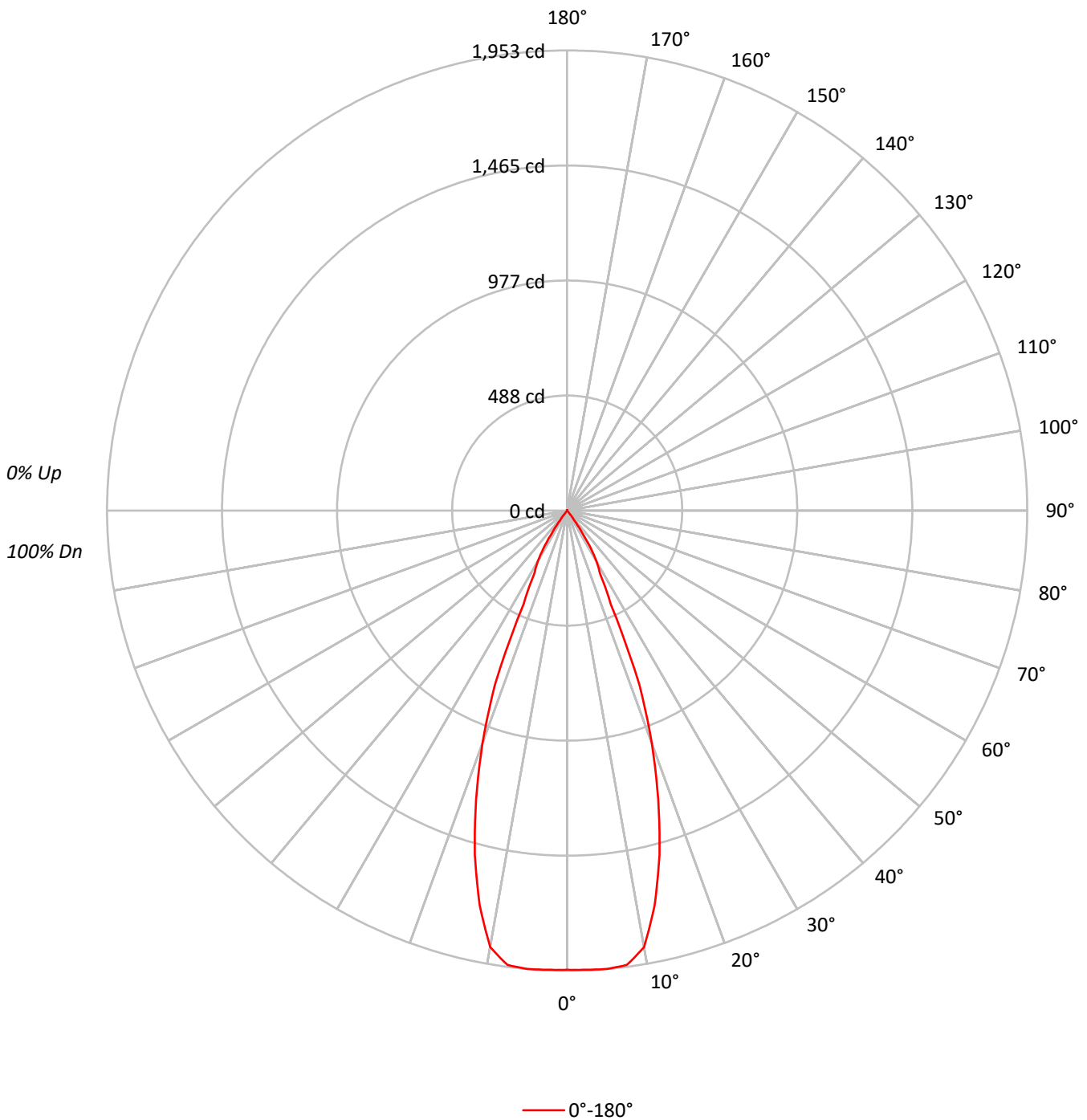
Lumens per Lamp: N/A
Luminaire Lumens: 901.9 lumens
Efficiency: N/A
Efficacy: 48.5 lumens/watt
Spacing Criteria (0/90/45): 0.69 / 0.69 / 0.62
Luminous Opening: Circular (Dia: 0.29' x H: 0')
CIE Type: Direct

Input Watts (W): 18.6
Input Voltage (V): NR
Input Current (A_{in}): 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 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 115 | 112 | 110 | 108 | 112 | 110 | 108 | 107 | 106 | 105 | 103 | 102 | 101 | 100 | 99 | 98 | 97 | 96 |
| 2 | 110 | 106 | 103 | 100 | 108 | 105 | 102 | 99 | 101 | 99 | 97 | 98 | 97 | 95 | 96 | 94 | 93 | 91 |
| 3 | 106 | 101 | 97 | 94 | 104 | 100 | 96 | 93 | 97 | 94 | 91 | 95 | 92 | 90 | 93 | 91 | 89 | 87 |
| 4 | 102 | 96 | 92 | 88 | 101 | 95 | 91 | 88 | 93 | 90 | 87 | 91 | 88 | 86 | 89 | 87 | 85 | 84 |
| 5 | 98 | 92 | 87 | 84 | 97 | 91 | 87 | 83 | 89 | 85 | 83 | 88 | 84 | 82 | 86 | 83 | 81 | 80 |
| 6 | 95 | 88 | 83 | 80 | 94 | 87 | 83 | 79 | 86 | 82 | 79 | 84 | 81 | 78 | 83 | 80 | 78 | 77 |
| 7 | 92 | 84 | 79 | 76 | 90 | 84 | 79 | 76 | 82 | 78 | 75 | 81 | 78 | 75 | 80 | 77 | 75 | 74 |
| 8 | 88 | 81 | 76 | 73 | 87 | 80 | 76 | 73 | 79 | 75 | 72 | 78 | 75 | 72 | 77 | 74 | 72 | 71 |
| 9 | 85 | 78 | 73 | 70 | 84 | 77 | 73 | 70 | 76 | 72 | 69 | 76 | 72 | 69 | 75 | 71 | 69 | 68 |
| 10 | 82 | 75 | 70 | 67 | 82 | 74 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 67 | 72 | 69 | 66 | 65 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 313991 |
| 5° | 315838 |
| 10° | 307695 |
| 15° | 252315 |
| 20° | 180101 |
| 25° | 77823 |
| 30° | 46395 |
| 35° | 17602 |
| 40° | 168 |
| 45° | 0 |
| 50° | 201 |
| 55° | 0 |
| 60° | 0 |
| 65° | 305 |
| 70° | 377 |
| 75° | 498 |
| 80° | 742 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 184.6 | 20.5 |
| 10°-20° | 411.5 | 45.6 |
| 20°-30° | 241.8 | 26.8 |
| 30°-40° | 62.2 | 6.9 |
| 40°-50° | 0.5 | 0.1 |
| 50°-60° | 0.3 | 0.0 |
| 60°-70° | 0.3 | 0.0 |
| 70°-80° | 0.4 | 0.0 |
| 80°-90° | 0.3 | 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° | 837.9 | 92.9 |
| 0°-40° | 900.1 | 99.8 |
| 0°-60° | 900.9 | 99.9 |
| 0°-90° | 901.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 901.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1949 | |
| 5° | 1953 | 185 |
| 15° | 1513 | 412 |
| 25° | 438 | 242 |
| 35° | 90 | 62 |
| 45° | 0 | 0 |
| 55° | 0 | 0 |
| 65° | 1 | 0 |
| 75° | 1 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1949.0 |
| 2.5° | 1950.6 |
| 5° | 1953.0 |
| 7.5° | 1945.1 |
| 10° | 1880.9 |
| 12.5° | 1715.5 |
| 15° | 1512.8 |
| 17.5° | 1284.8 |
| 20° | 1050.5 |
| 22.5° | 801.9 |
| 25° | 437.8 |
| 27.5° | 303.2 |
| 30° | 249.4 |
| 32.5° | 177.3 |
| 35° | 89.5 |
| 37.5° | 25.3 |
| 40° | 0.8 |
| 42.5° | 0.8 |
| 45° | 0.0 |
| 47.5° | 0.8 |
| 50° | 0.8 |
| 52.5° | 0.0 |
| 55° | 0.0 |
| 57.5° | 0.8 |
| 60° | 0.0 |
| 62.5° | 0.0 |
| 65° | 0.8 |
| 67.5° | 0.0 |
| 70° | 0.8 |
| 72.5° | 0.0 |
| 75° | 0.8 |
| 77.5° | 0.0 |
| 80° | 0.8 |
| 82.5° | 0.8 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)