

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: P106314

Luminaire Tested: **P3LED09NSP10830-E3MRC**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P106314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13665)
Test Lab: PEACHTREE CITY
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: IRiS
Catalog Number: P3LED09NSP10830-E3MRC
Description: IRIS 3 INCH LED FIXTURE WITH
SPECULAR CLEAR DOWNLIGHT REFLECTOR
AND 10 DEGREE PRIMARY OPTIC, 0 DEGREE AIMING ANGLE
Light Source: (1) 3000K 80CRI LED
Ballast/Driver: (1) 340mA ELECTRONIC DRIVER

Summary

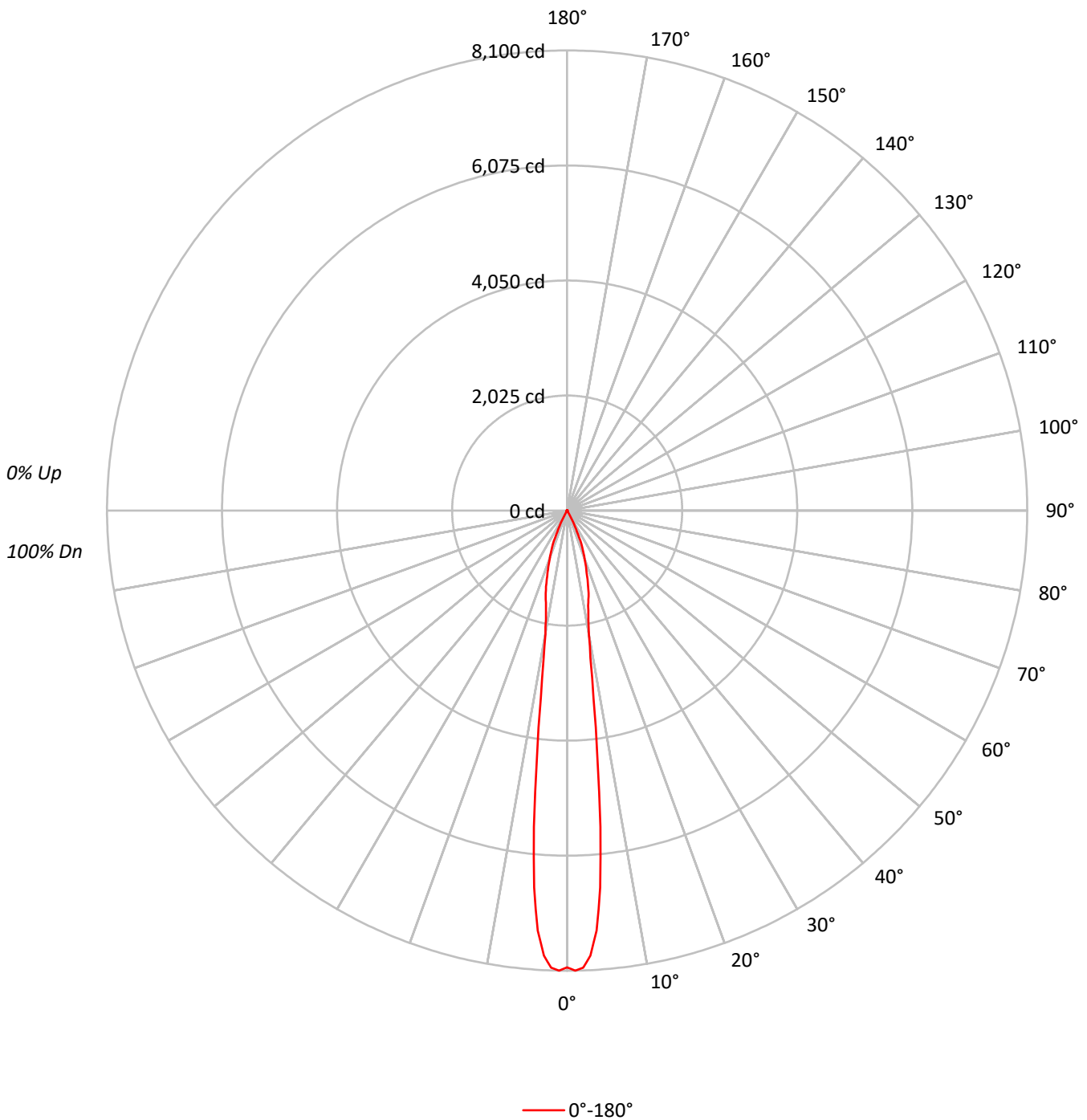
Lumens per Lamp: N/A
Luminaire Lumens: 1062.9 lumens
Efficiency: N/A
Efficacy: 74.3 lumens/watt
Spacing Criteria (0/90/45): 0.25 / 0.25 / 0.26
Luminous Opening: Circular (Dia: 0.31' x H: 0')
CIE Type: Direct

Input Watts (W): 14.3
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



TEST NUMBER: P106314
CATALOG NUMBER: P3LED09NSP10830-E3MRC

Luminous Intensity Polar Plot





TEST NUMBER: P106314

CATALOG NUMBER: P3LED09NSP10830-E3MRC

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 | 107 | 107 | 107 | 102 | 102 | 102 | 100 |
| 1 | 115 | 113 | 111 | 109 | 113 | 111 | 109 | 108 | 107 | 106 | 104 | 103 | 102 | 101 | 100 | 99 | 98 | 97 |
| 2 | 112 | 108 | 105 | 103 | 110 | 106 | 104 | 102 | 103 | 101 | 99 | 100 | 99 | 97 | 98 | 96 | 95 | 94 |
| 3 | 108 | 104 | 100 | 97 | 107 | 102 | 99 | 97 | 100 | 97 | 95 | 98 | 96 | 94 | 96 | 94 | 92 | 91 |
| 4 | 105 | 100 | 96 | 93 | 104 | 99 | 96 | 93 | 97 | 94 | 92 | 95 | 93 | 91 | 94 | 91 | 90 | 89 |
| 5 | 102 | 97 | 93 | 90 | 101 | 96 | 92 | 90 | 94 | 91 | 89 | 93 | 90 | 88 | 91 | 89 | 87 | 86 |
| 6 | 100 | 94 | 90 | 87 | 98 | 93 | 89 | 87 | 92 | 89 | 86 | 91 | 88 | 86 | 89 | 87 | 85 | 84 |
| 7 | 97 | 91 | 87 | 84 | 96 | 90 | 87 | 84 | 89 | 86 | 84 | 88 | 85 | 83 | 87 | 85 | 83 | 82 |
| 8 | 95 | 89 | 85 | 82 | 94 | 88 | 84 | 82 | 87 | 84 | 82 | 86 | 83 | 81 | 86 | 83 | 81 | 80 |
| 9 | 93 | 86 | 82 | 80 | 92 | 86 | 82 | 80 | 85 | 82 | 80 | 84 | 81 | 79 | 84 | 81 | 79 | 78 |
| 10 | 90 | 84 | 80 | 78 | 90 | 84 | 80 | 78 | 83 | 80 | 78 | 83 | 80 | 77 | 82 | 79 | 77 | 76 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|---------|
| | 0° |
| 0° | 1128499 |
| 5° | 938148 |
| 10° | 315006 |
| 15° | 210497 |
| 20° | 134023 |
| 25° | 62791 |
| 30° | 4813 |
| 35° | 1456 |
| 40° | 147 |
| 45° | 0 |
| 50° | 0 |
| 55° | 0 |
| 60° | 2610 |
| 65° | 266 |
| 70° | 328 |
| 75° | 2765 |
| 80° | 0 |
| 85° | 13687 |



TEST NUMBER: P106314

CATALOG NUMBER: P3LED09NSP10830-E3MRC

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 454.1 | 42.7 |
| 10°-20° | 395.6 | 37.2 |
| 20°-30° | 195.8 | 18.4 |
| 30°-40° | 5.1 | 0.5 |
| 40°-50° | 1.4 | 0.1 |
| 50°-60° | 4.1 | 0.4 |
| 60°-70° | 1.6 | 0.2 |
| 70°-80° | 2.6 | 0.2 |
| 80°-90° | 4.1 | 0.4 |
| 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° | 1045.4 | 98.4 |
| 0°-40° | 1050.5 | 98.8 |
| 0°-60° | 1056.0 | 99.4 |
| 0°-90° | 1064.4 | 100.1 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1062.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 8041 | |
| 5° | 6659 | 454 |
| 15° | 1449 | 396 |
| 25° | 406 | 196 |
| 35° | 8 | 5 |
| 45° | 0 | 1 |
| 55° | 0 | 4 |
| 65° | 1 | 2 |
| 75° | 5 | 3 |
| 85° | 8 | 4 |
| 90° | 0 | |



TEST NUMBER: P106314

CATALOG NUMBER: P3LED09NSP10830-E3MRC

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 8041.2 |
| 1° | 8099.7 |
| 2° | 8051.4 |
| 3° | 7842.7 |
| 4° | 7411.8 |
| 5° | 6659.4 |
| 6° | 5596.6 |
| 7° | 4369.2 |
| 8° | 3334.4 |
| 9° | 2630.3 |
| 10° | 2210.5 |
| 11° | 1960.2 |
| 12.5° | 1713.4 |
| 15° | 1448.8 |
| 17.5° | 1143.4 |
| 20° | 897.4 |
| 22.5° | 695.5 |
| 25° | 405.5 |
| 27.5° | 231.6 |
| 30° | 29.7 |
| 32.5° | 4.2 |
| 35° | 8.5 |
| 37.5° | 5.9 |
| 40° | 0.8 |
| 42.5° | 3.4 |
| 45° | 0.0 |
| 47.5° | 3.4 |
| 50° | 0.0 |
| 52.5° | 0.0 |
| 55° | 0.0 |
| 57.5° | 6.8 |
| 60° | 9.3 |
| 62.5° | 0.0 |
| 65° | 0.8 |
| 67.5° | 0.8 |
| 70° | 0.8 |
| 72.5° | 3.4 |
| 75° | 5.1 |
| 77.5° | 0.8 |
| 80° | 0.0 |
| 82.5° | 4.2 |
| 85° | 8.5 |
| 87.5° | 2.5 |
| 90° | 0.0 |

(END OF REPORT)