

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P203350

Luminaire Tested: **LSR6B20D010BZ EC6B10209730 6LBMWH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P203350
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR6B20D010BZ EC6B10209730 6LBMWH1
Description: PORTFOLIO 6IN CYLINDER
MEDIUM DISTRIBUTION WITH WHEAT TRIM
WATTAGE D010TR-21.86 W DE010-20.46 W D5LT-21.24 W DMX-20.89 W DL2-22.5 W
DL3-21.8 6 W DLE-22.46 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1200.9 lumens
Efficiency: N/A
Efficacy: 57.7 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

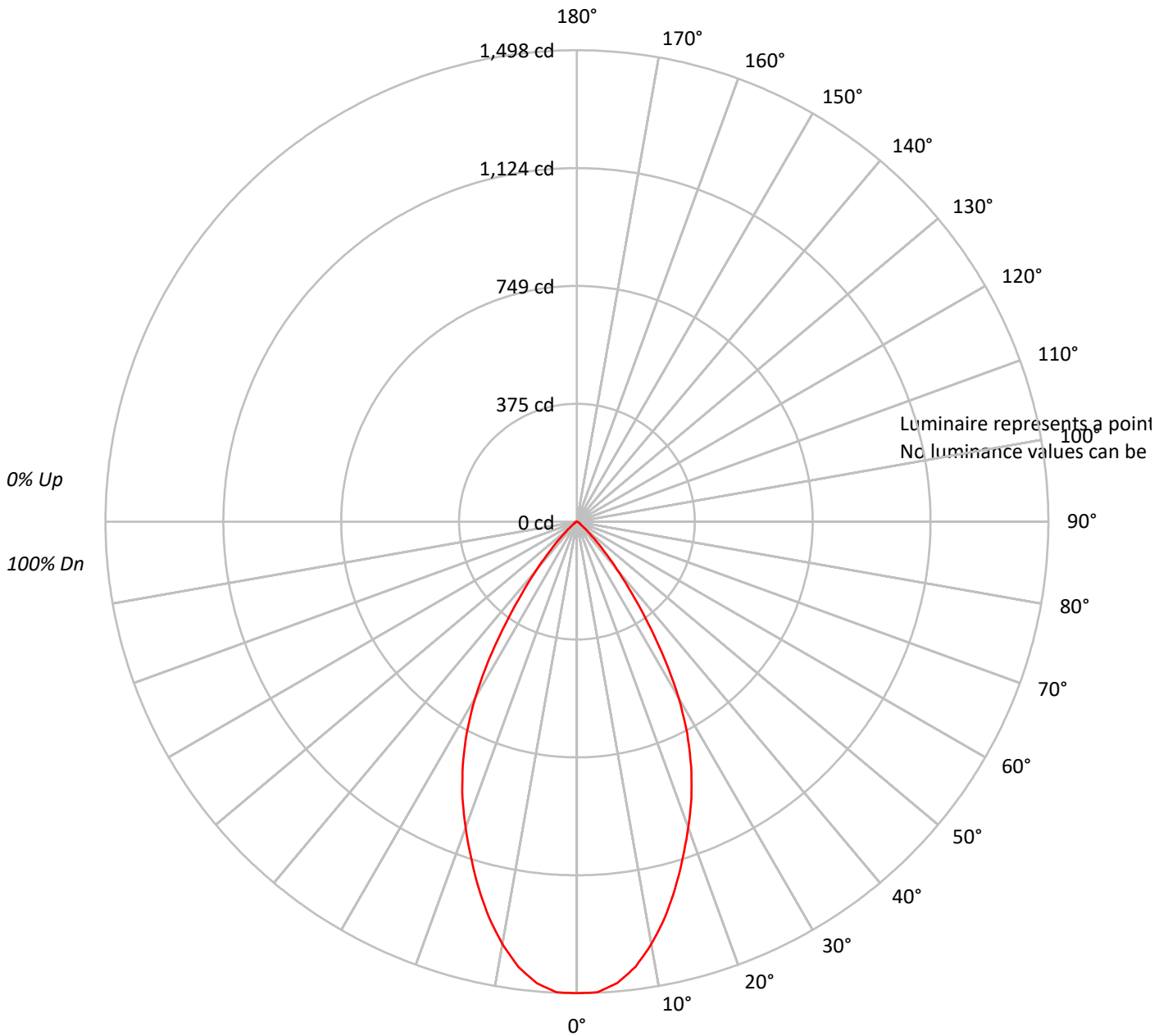
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P203350

CATALOG NUMBER: LSR6B20D010BZ EC6B10209730 6LBMWH1

Luminous Intensity Polar Plot





TEST NUMBER: P203350

CATALOG NUMBER: LSR6B20D010BZ EC6B10209730 6LBMWH1

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 | 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 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | | | | | | | | | | | | | | | |
| | 1 | 114 | 111 | 108 | 106 | 111 | 109 | 106 | 104 | 105 | 103 | 101 | 101 | 100 | 98 | 97 | 96 | 95 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | | | | | | | | | | | | | | | | |
| | 2 | 108 | 103 | 99 | 96 | 106 | 101 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 92 | 91 | 89 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | | | | | | | | | | | | | | | |
| | 3 | 103 | 96 | 91 | 87 | 101 | 95 | 90 | 87 | 92 | 88 | 85 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | | | | | | | | | | | | | | | |
| | 4 | 97 | 90 | 85 | 80 | 96 | 89 | 84 | 80 | 87 | 82 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | | | | | | | | | | | | | | | |
| | 5 | 93 | 84 | 79 | 74 | 91 | 83 | 78 | 74 | 82 | 77 | 73 | 80 | 76 | 73 | 78 | 75 | 72 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | | | | | | | | | | | | | | |
| | 6 | 88 | 79 | 73 | 69 | 87 | 78 | 73 | 69 | 77 | 72 | 68 | 76 | 71 | 68 | 74 | 70 | 67 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | | | | | | | | | | | | | | |
| | 7 | 84 | 75 | 69 | 64 | 82 | 74 | 68 | 64 | 73 | 68 | 64 | 71 | 67 | 64 | 70 | 66 | 63 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | | | | | | | | | | | | | | |
| | 8 | 80 | 70 | 64 | 60 | 78 | 70 | 64 | 60 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 62 | 59 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | | | | | | | | | | | | | | |
| | 9 | 76 | 66 | 61 | 57 | 75 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 63 | 59 | 56 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | | | | | | | | | | | | | | |
| | 10 | 72 | 63 | 57 | 53 | 71 | 62 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P203350

CATALOG NUMBER: LSR6B20D010BZ EC6B10209730 6LBMWH1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 137.0 | 11.4 |
| 10°-20° | 336.2 | 28.0 |
| 20°-30° | 389.0 | 32.4 |
| 30°-40° | 248.7 | 20.7 |
| 40°-50° | 70.5 | 5.9 |
| 50°-60° | 12.6 | 1.0 |
| 60°-70° | 5.1 | 0.4 |
| 70°-80° | 1.8 | 0.1 |
| 80°-90° | 0.0 | 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° | 862.3 | 71.8 |
| 0°-40° | 1110.9 | 92.5 |
| 0°-60° | 1194.0 | 99.4 |
| 0°-90° | 1200.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1200.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1498 | |
| 5° | 1471 | 137 |
| 15° | 1206 | 336 |
| 25° | 858 | 389 |
| 35° | 392 | 249 |
| 45° | 82 | 70 |
| 55° | 12 | 13 |
| 65° | 5 | 5 |
| 75° | 2 | 2 |
| 85° | 0 | 0 |
| 90° | 0 | |



TEST NUMBER: P203350

CATALOG NUMBER: LSR6B20D010BZ EC6B10209730 6LBMWH1

CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1498.2 |
| 2.5° | 1496.5 |
| 5° | 1471.4 |
| 7.5° | 1426.4 |
| 10° | 1362.9 |
| 12.5° | 1289.4 |
| 15° | 1205.9 |
| 17.5° | 1119.0 |
| 20° | 1033.9 |
| 22.5° | 950.3 |
| 25° | 858.5 |
| 27.5° | 758.3 |
| 30° | 646.4 |
| 32.5° | 521.1 |
| 35° | 392.5 |
| 37.5° | 283.9 |
| 40° | 197.1 |
| 42.5° | 130.3 |
| 45° | 81.8 |
| 47.5° | 48.4 |
| 50° | 28.4 |
| 52.5° | 16.7 |
| 55° | 11.7 |
| 57.5° | 10.0 |
| 60° | 8.4 |
| 62.5° | 6.7 |
| 65° | 5.0 |
| 67.5° | 3.3 |
| 70° | 3.3 |
| 72.5° | 1.7 |
| 75° | 1.7 |
| 77.5° | 1.7 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)