

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: P204369

Luminaire Tested: **LSR6B20D010BZ EC6B10208030 6LBSGPH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204369
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 EC6B10208030 6LBSGPH1
Description: PORTFOLIO 6IN CYLINDER
SHALLOW DISTRIBUTION WITH GRAPHITE HAZE 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: 1947.4 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.16 / 1.26
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

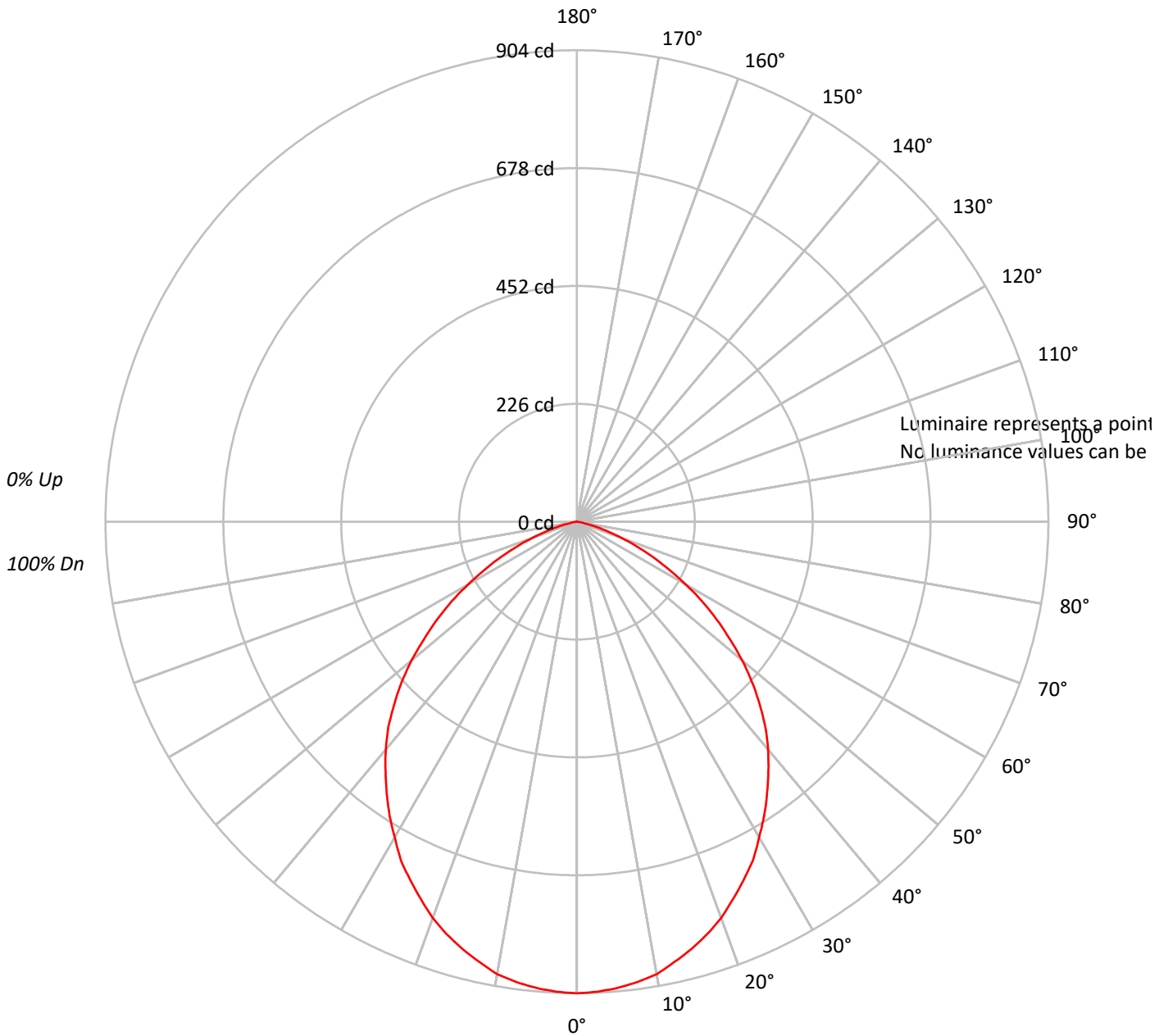
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P204369

CATALOG NUMBER: LSR6B20D010BZ EC6B10208030 6LBSGPH1

Luminous Intensity Polar Plot





TEST NUMBER: P204369

CATALOG NUMBER: LSR6B20D010BZ EC6B10208030 6LBSGPH1

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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | | | 100 |
| 1 | 111 | 107 | 103 | 100 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 93 | 91 | 90 | 88 | | | 88 |
| 2 | 102 | 95 | 89 | 84 | 100 | 93 | 88 | 83 | 90 | 85 | 82 | 87 | 83 | 80 | 84 | 81 | 78 | 76 | | | 76 |
| 3 | 94 | 85 | 78 | 72 | 92 | 83 | 77 | 71 | 80 | 75 | 70 | 78 | 73 | 69 | 75 | 71 | 68 | 66 | | | 66 |
| 4 | 87 | 76 | 68 | 62 | 85 | 75 | 67 | 62 | 72 | 66 | 61 | 70 | 65 | 60 | 68 | 63 | 59 | 57 | | | 57 |
| 5 | 80 | 68 | 60 | 54 | 78 | 67 | 60 | 54 | 65 | 59 | 53 | 63 | 58 | 53 | 62 | 56 | 52 | 50 | | | 50 |
| 6 | 74 | 62 | 54 | 48 | 73 | 61 | 53 | 48 | 59 | 52 | 47 | 58 | 52 | 47 | 56 | 51 | 47 | 45 | | | 45 |
| 7 | 69 | 57 | 48 | 43 | 68 | 56 | 48 | 43 | 54 | 47 | 42 | 53 | 47 | 42 | 52 | 46 | 42 | 40 | | | 40 |
| 8 | 65 | 52 | 44 | 38 | 63 | 51 | 44 | 38 | 50 | 43 | 38 | 49 | 42 | 38 | 48 | 42 | 38 | 36 | | | 36 |
| 9 | 60 | 48 | 40 | 35 | 59 | 47 | 40 | 35 | 46 | 39 | 35 | 45 | 39 | 34 | 44 | 38 | 34 | 32 | | | 32 |
| 10 | 57 | 44 | 37 | 32 | 56 | 44 | 36 | 32 | 43 | 36 | 31 | 42 | 36 | 31 | 41 | 35 | 31 | 30 | | | 30 |

AVERAGE LUMINANCE (cd/sqm):





TEST NUMBER: P204369

CATALOG NUMBER: LSR6B20D010BZ EC6B10208030 6LBSGPH1

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.2 | 4.4 |
| 10°-20° | 239.0 | 12.3 |
| 20°-30° | 348.6 | 17.9 |
| 30°-40° | 397.6 | 20.4 |
| 40°-50° | 381.4 | 19.6 |
| 50°-60° | 292.1 | 15.0 |
| 60°-70° | 160.3 | 8.2 |
| 70°-80° | 42.6 | 2.2 |
| 80°-90° | 0.6 | 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° | 672.8 | 34.5 |
| 0°-40° | 1070.4 | 55.0 |
| 0°-60° | 1743.9 | 89.5 |
| 0°-90° | 1947.4 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1947.4 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 904 | |
| 5° | 898 | 85 |
| 15° | 848 | 239 |
| 25° | 757 | 349 |
| 35° | 636 | 398 |
| 45° | 496 | 381 |
| 55° | 327 | 292 |
| 65° | 161 | 160 |
| 75° | 37 | 43 |
| 85° | 0 | 1 |
| 90° | 0 | |



TEST NUMBER: P204369

CATALOG NUMBER: LSR6B20D010BZ EC6B10208030 6LBSGPH1

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|-------|
| 0° | 904.5 |
| 2.5° | 902.1 |
| 5° | 897.5 |
| 7.5° | 890.4 |
| 10° | 881.1 |
| 12.5° | 864.7 |
| 15° | 848.4 |
| 17.5° | 829.7 |
| 20° | 808.6 |
| 22.5° | 782.9 |
| 25° | 757.2 |
| 27.5° | 731.5 |
| 30° | 698.8 |
| 32.5° | 668.4 |
| 35° | 635.7 |
| 37.5° | 603.0 |
| 40° | 570.3 |
| 42.5° | 535.2 |
| 45° | 495.5 |
| 47.5° | 455.7 |
| 50° | 413.7 |
| 52.5° | 369.3 |
| 55° | 327.2 |
| 57.5° | 285.1 |
| 60° | 240.7 |
| 62.5° | 198.7 |
| 65° | 161.3 |
| 67.5° | 123.9 |
| 70° | 91.1 |
| 72.5° | 60.8 |
| 75° | 37.4 |
| 77.5° | 16.4 |
| 80° | 4.7 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180°







(END OF REPORT)