

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: P204816

Luminaire Tested: **LD6B40D010 EU6B30509035 6LBCSMW1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P204816
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: LD6B40D010 EU6B30509035 6LBCSMW1
Description: PORTFOLIO 6 INCH SHALLOW RECESSED DOWNLIGHT
SHALLOW DISTRIBUTION WITH CAST MATTE WHITE TRIM
WATTAGE D010TR-43.02 W DE010-42.54 W D5LT-42.539 W DMX-41.87 W DL2-41.57
W DL3-44.71 W DLE-39.33 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3974.9 lumens
Efficiency: N/A
Efficacy: 95.1 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.23 / 1.33
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

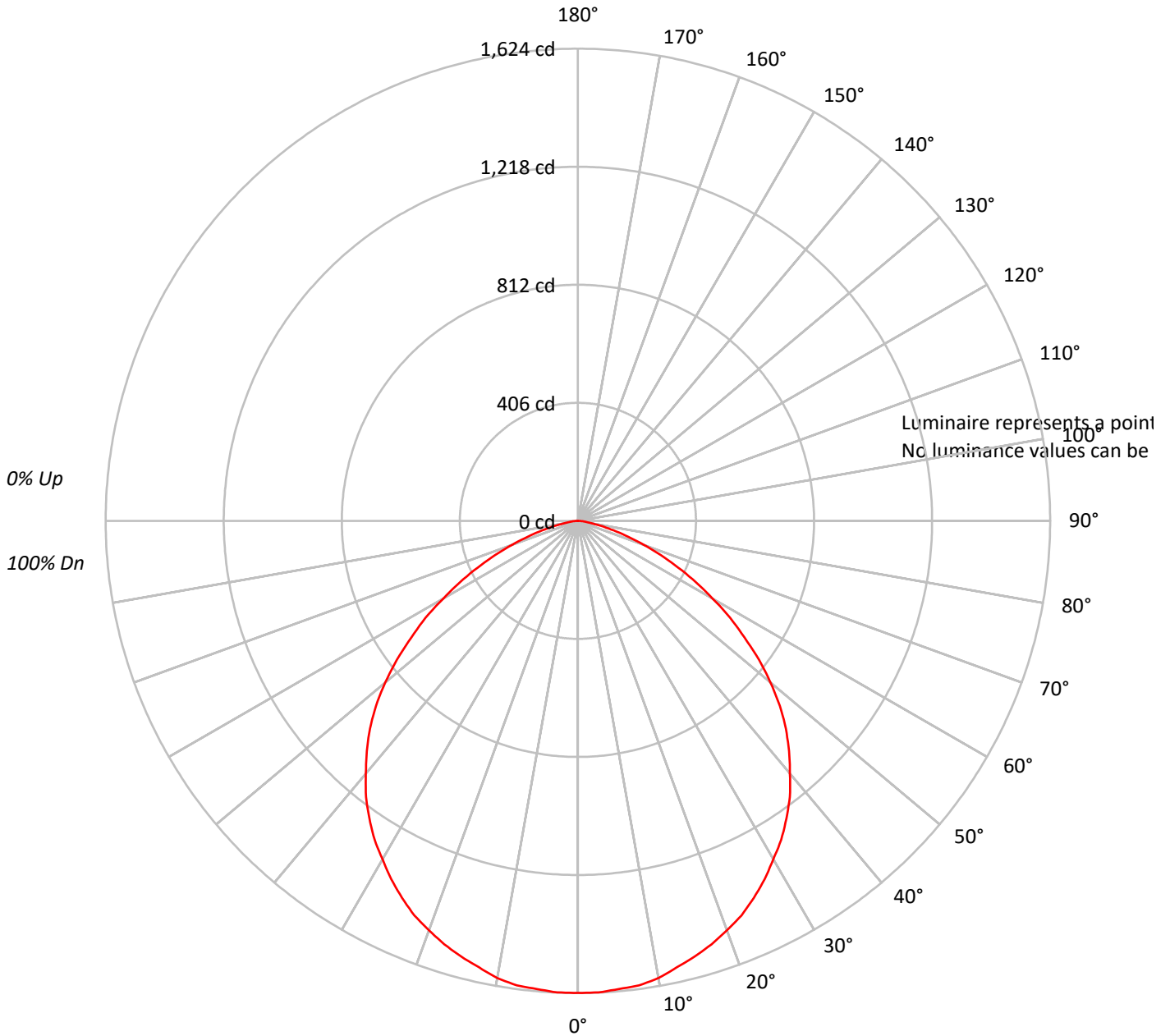
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 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 | 110 | 106 | 102 | 99 | 108 | 104 | 100 | 97 | 100 | 97 | 94 | 96 | 93 | 91 | 92 | 90 | 89 | 87 | | | |
| 2 | 101 | 94 | 87 | 82 | 99 | 92 | 86 | 81 | 88 | 84 | 79 | 85 | 81 | 78 | 82 | 79 | 76 | 74 | | | |
| 3 | 93 | 83 | 75 | 70 | 90 | 81 | 74 | 69 | 79 | 73 | 68 | 76 | 71 | 67 | 73 | 69 | 65 | 63 | | | |
| 4 | 85 | 74 | 66 | 60 | 83 | 73 | 65 | 59 | 70 | 64 | 58 | 68 | 62 | 58 | 66 | 61 | 57 | 55 | | | |
| 5 | 79 | 66 | 58 | 52 | 77 | 65 | 57 | 51 | 63 | 56 | 51 | 61 | 55 | 50 | 60 | 54 | 50 | 48 | | | |
| 6 | 73 | 60 | 52 | 45 | 71 | 59 | 51 | 45 | 57 | 50 | 45 | 56 | 49 | 44 | 54 | 49 | 44 | 42 | | | |
| 7 | 68 | 55 | 46 | 40 | 66 | 54 | 46 | 40 | 52 | 45 | 40 | 51 | 44 | 40 | 50 | 44 | 39 | 37 | | | |
| 8 | 63 | 50 | 42 | 36 | 61 | 49 | 41 | 36 | 48 | 41 | 36 | 47 | 40 | 36 | 46 | 40 | 35 | 33 | | | |
| 9 | 59 | 46 | 38 | 33 | 57 | 45 | 38 | 32 | 44 | 37 | 32 | 43 | 37 | 32 | 42 | 36 | 32 | 30 | | | |
| 10 | 55 | 42 | 35 | 30 | 54 | 42 | 34 | 30 | 41 | 34 | 29 | 40 | 34 | 29 | 39 | 33 | 29 | 27 | | | |

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 153.8 | 3.9 |
| 10°-20° | 437.9 | 11.0 |
| 20°-30° | 658.7 | 16.6 |
| 30°-40° | 780.7 | 19.6 |
| 40°-50° | 776.9 | 19.5 |
| 50°-60° | 626.3 | 15.8 |
| 60°-70° | 378.9 | 9.5 |
| 70°-80° | 140.7 | 3.5 |
| 80°-90° | 21.0 | 0.5 |
| 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° | 1250.5 | 31.5 |
| 0°-40° | 2031.1 | 51.1 |
| 0°-60° | 3434.3 | 86.4 |
| 0°-90° | 3974.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 3974.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1624 | |
| 5° | 1616 | 154 |
| 15° | 1551 | 438 |
| 25° | 1431 | 659 |
| 35° | 1250 | 781 |
| 45° | 1012 | 777 |
| 55° | 698 | 626 |
| 65° | 381 | 379 |
| 75° | 128 | 141 |
| 85° | 17 | 21 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1623.5 |
| 2.5° | 1623.5 |
| 5° | 1616.2 |
| 7.5° | 1611.4 |
| 10° | 1597.0 |
| 12.5° | 1572.9 |
| 15° | 1551.2 |
| 17.5° | 1527.1 |
| 20° | 1498.2 |
| 22.5° | 1469.3 |
| 25° | 1430.8 |
| 27.5° | 1389.8 |
| 30° | 1344.0 |
| 32.5° | 1300.7 |
| 35° | 1250.1 |
| 37.5° | 1197.1 |
| 40° | 1134.5 |
| 42.5° | 1074.3 |
| 45° | 1011.6 |
| 47.5° | 941.8 |
| 50° | 864.7 |
| 52.5° | 785.2 |
| 55° | 698.5 |
| 57.5° | 621.4 |
| 60° | 534.7 |
| 62.5° | 457.7 |
| 65° | 380.6 |
| 67.5° | 308.3 |
| 70° | 240.9 |
| 72.5° | 180.7 |
| 75° | 127.7 |
| 77.5° | 81.9 |
| 80° | 48.2 |
| 82.5° | 28.9 |
| 85° | 16.9 |
| 87.5° | 7.2 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)