

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: PORTFOLIO

Report Number: P252766

Luminaire Tested: **LE_6B15D010 EC6B10208030 6LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-2)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208030 6LBBA1MW
Description: PORTFOLIO 6 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2331.3 lumens
Efficiency: N/A
Efficacy: 161.9 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

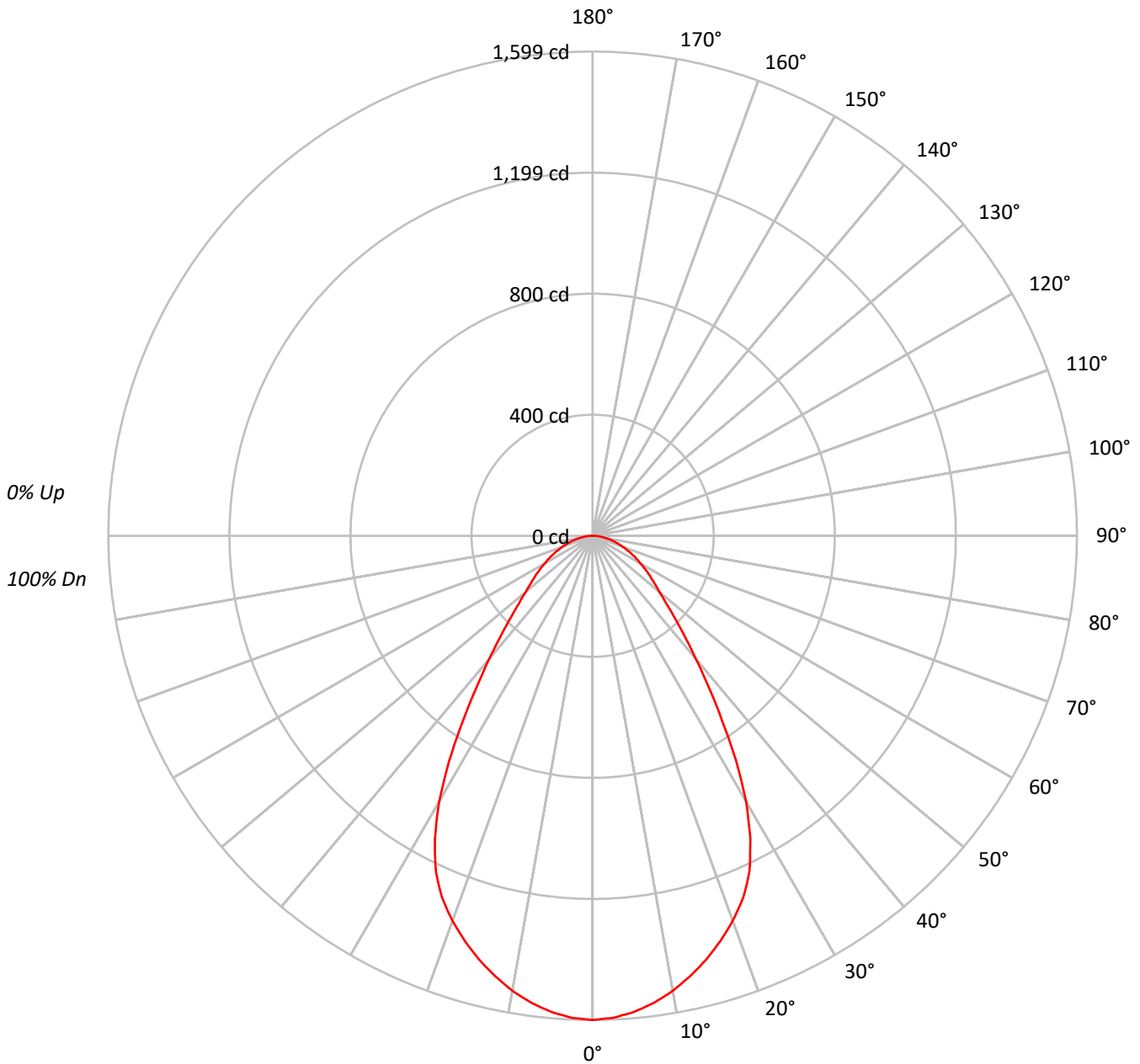
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|----|-----|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | | 88 |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | | 78 |
| 3 | 96 | 87 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | | 69 |
| 4 | 90 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | | 62 |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 58 | 66 | 62 | 58 | 56 | | | | 56 |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 51 | | | | 51 |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 59 | 53 | 49 | 57 | 52 | 48 | 47 | | | | 47 |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 53 | 48 | 44 | 43 | | | | 43 |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | | 39 |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 | | | | 37 |

AVERAGE LUMINANCE (cd/sqm):

| | 0° |
|-----|--------|
| 0° | 104320 |
| 5° | 103356 |
| 10° | 101086 |
| 15° | 97868 |
| 20° | 93922 |
| 25° | 88175 |
| 30° | 76298 |
| 35° | 59407 |
| 40° | 45146 |
| 45° | 35199 |
| 50° | 29190 |
| 55° | 26207 |
| 60° | 23852 |
| 65° | 22014 |
| 70° | 20220 |
| 75° | 18754 |
| 80° | 16944 |
| 85° | 15570 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 149.0 | 6.4 |
| 10°-20° | 407.1 | 17.5 |
| 20°-30° | 554.5 | 23.8 |
| 30°-40° | 469.2 | 20.1 |
| 40°-50° | 301.0 | 12.9 |
| 50°-60° | 207.1 | 8.9 |
| 60°-70° | 141.5 | 6.1 |
| 70°-80° | 78.8 | 3.4 |
| 80°-90° | 23.1 | 1.0 |
| 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° | 1110.6 | 47.6 |
| 0°-40° | 1579.9 | 67.8 |
| 0°-60° | 2088.0 | 89.6 |
| 0°-90° | 2331.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2331.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1599 | |
| 5° | 1578 | 149 |
| 15° | 1449 | 407 |
| 25° | 1225 | 555 |
| 35° | 746 | 469 |
| 45° | 382 | 301 |
| 55° | 230 | 207 |
| 65° | 143 | 142 |
| 75° | 74 | 79 |
| 85° | 21 | 23 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1599.0 |
| 2.5° | 1592.9 |
| 5° | 1578.2 |
| 7.5° | 1555.1 |
| 10° | 1525.9 |
| 12.5° | 1489.2 |
| 15° | 1449.0 |
| 17.5° | 1402.8 |
| 20° | 1352.8 |
| 22.5° | 1296.8 |
| 25° | 1224.9 |
| 27.5° | 1127.4 |
| 30° | 1012.8 |
| 32.5° | 881.1 |
| 35° | 745.9 |
| 37.5° | 627.6 |
| 40° | 530.1 |
| 42.5° | 448.5 |
| 45° | 381.5 |
| 47.5° | 329.0 |
| 50° | 287.6 |
| 52.5° | 255.9 |
| 55° | 230.4 |
| 57.5° | 206.0 |
| 60° | 182.8 |
| 62.5° | 162.1 |
| 65° | 142.6 |
| 67.5° | 123.1 |
| 70° | 106.0 |
| 72.5° | 89.0 |
| 75° | 74.4 |
| 77.5° | 59.8 |
| 80° | 45.1 |
| 82.5° | 32.9 |
| 85° | 20.8 |
| 87.5° | 8.5 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)