

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: P252761

Luminaire Tested: **LE_6B10D010 EC6B10209040 6LBBA1MW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252761
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_6B10D010 EC6B10209040 6LBBA1MW
Description: PORTFOLIO 6 INCH BAFFLE RECESSED DOWNLIGHT, WITH MATTE WHITE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1466.3 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Spacing Criteria (0/90/45): 1.03 / 1.03 / 1
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

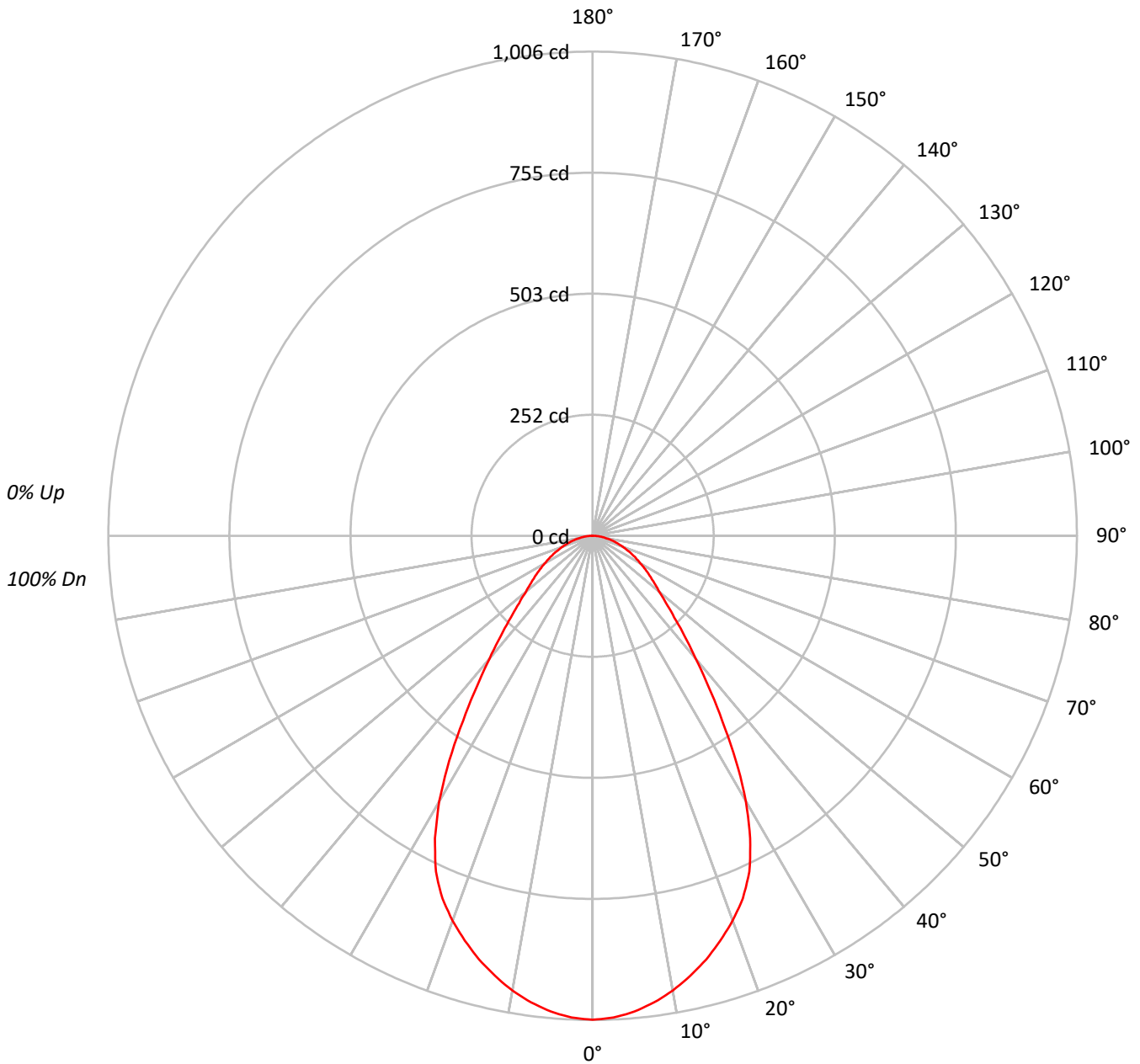
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 20 | | | | |
| 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 | 111 | 107 | 104 | 101 | 108 | 105 | 102 | 99 | 101 | 98 | 96 | 97 | 95 | 93 | 94 | 92 | 90 | 88 | | | |
| 2 | 103 | 97 | 91 | 87 | 101 | 95 | 90 | 86 | 91 | 87 | 84 | 88 | 85 | 82 | 85 | 83 | 80 | 78 | | | |
| 3 | 96 | 87 | 81 | 76 | 94 | 86 | 80 | 75 | 83 | 78 | 74 | 81 | 76 | 72 | 78 | 74 | 71 | 69 | | | |
| 4 | 90 | 80 | 72 | 67 | 87 | 78 | 72 | 66 | 76 | 70 | 66 | 74 | 69 | 65 | 72 | 68 | 64 | 62 | | | |
| 5 | 84 | 73 | 65 | 60 | 82 | 72 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 58 | 66 | 62 | 58 | 56 | | | |
| 6 | 78 | 67 | 60 | 54 | 77 | 66 | 59 | 54 | 65 | 58 | 54 | 63 | 57 | 53 | 62 | 57 | 53 | 51 | | | |
| 7 | 74 | 62 | 55 | 49 | 72 | 61 | 54 | 49 | 60 | 53 | 49 | 59 | 53 | 49 | 57 | 52 | 48 | 47 | | | |
| 8 | 69 | 58 | 50 | 45 | 68 | 57 | 50 | 45 | 56 | 49 | 45 | 55 | 49 | 45 | 53 | 48 | 44 | 43 | | | |
| 9 | 65 | 54 | 46 | 42 | 64 | 53 | 46 | 42 | 52 | 46 | 41 | 51 | 45 | 41 | 50 | 45 | 41 | 39 | | | |
| 10 | 62 | 50 | 43 | 39 | 61 | 50 | 43 | 39 | 49 | 43 | 38 | 48 | 42 | 38 | 47 | 42 | 38 | 37 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 65606 |
| 5° | 65005 |
| 10° | 63571 |
| 15° | 61558 |
| 20° | 59076 |
| 25° | 55457 |
| 30° | 47987 |
| 35° | 37361 |
| 40° | 28394 |
| 45° | 22134 |
| 50° | 18361 |
| 55° | 16481 |
| 60° | 15005 |
| 65° | 13832 |
| 70° | 12704 |
| 75° | 11797 |
| 80° | 10670 |
| 85° | 9731 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 93.7 | 6.4 |
| 10°-20° | 256.1 | 17.5 |
| 20°-30° | 348.8 | 23.8 |
| 30°-40° | 295.1 | 20.1 |
| 40°-50° | 189.3 | 12.9 |
| 50°-60° | 130.3 | 8.9 |
| 60°-70° | 89.0 | 6.1 |
| 70°-80° | 49.5 | 3.4 |
| 80°-90° | 14.5 | 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° | 698.5 | 47.6 |
| 0°-40° | 993.6 | 67.8 |
| 0°-60° | 1313.3 | 89.6 |
| 0°-90° | 1466.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1466.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1006 | |
| 5° | 993 | 94 |
| 15° | 911 | 256 |
| 25° | 770 | 349 |
| 35° | 469 | 295 |
| 45° | 240 | 189 |
| 55° | 145 | 130 |
| 65° | 90 | 89 |
| 75° | 47 | 50 |
| 85° | 13 | 15 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1005.6 |
| 2.5° | 1001.9 |
| 5° | 992.6 |
| 7.5° | 978.1 |
| 10° | 959.6 |
| 12.5° | 936.6 |
| 15° | 911.4 |
| 17.5° | 882.2 |
| 20° | 850.9 |
| 22.5° | 815.6 |
| 25° | 770.4 |
| 27.5° | 709.0 |
| 30° | 637.0 |
| 32.5° | 554.2 |
| 35° | 469.1 |
| 37.5° | 394.8 |
| 40° | 333.4 |
| 42.5° | 282.1 |
| 45° | 239.9 |
| 47.5° | 207.0 |
| 50° | 180.9 |
| 52.5° | 161.0 |
| 55° | 144.9 |
| 57.5° | 129.5 |
| 60° | 115.0 |
| 62.5° | 102.0 |
| 65° | 89.6 |
| 67.5° | 77.4 |
| 70° | 66.6 |
| 72.5° | 56.0 |
| 75° | 46.8 |
| 77.5° | 37.5 |
| 80° | 28.4 |
| 82.5° | 20.8 |
| 85° | 13.0 |
| 87.5° | 5.4 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)