

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: P35125

Luminaire Tested: **LE_6B10D010 EC6B10209027 6LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P35125
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209027 6LBMH1
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-10.05 W DE010-10.58 W D5LT-10.2 W DMX-10.6 W DL2-11.8 W
DL3-11.1 W DLE-11.39 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 875.3 lumens
Efficiency: N/A
Efficacy: 90.2 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

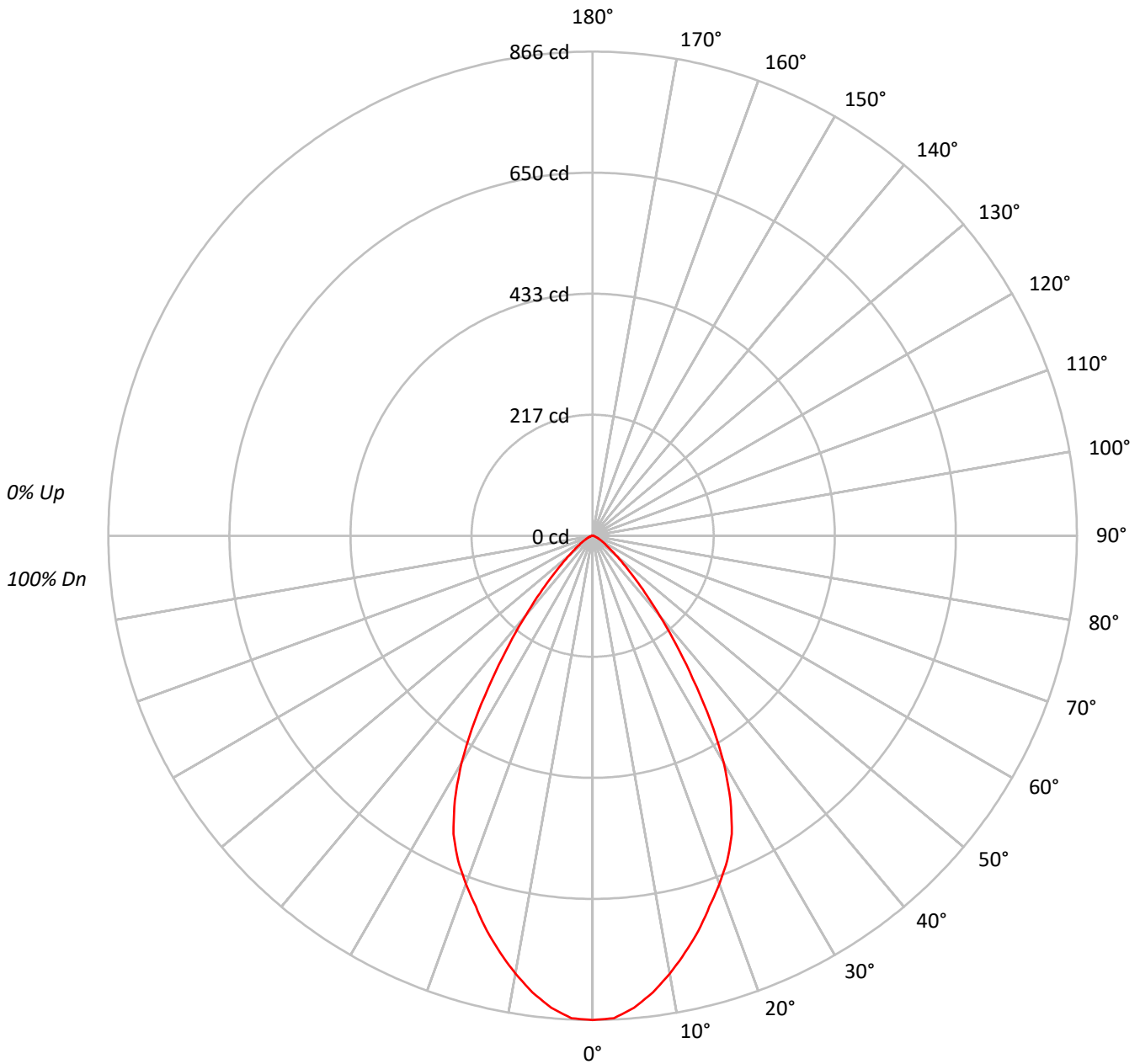
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|-----|--|--|--|--|--|--|----|--|--|--|--|--|--|--|--|---|
| RF | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | 20 | | | | | | | | | |
| RC | 80 | | | | | | | | | 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 | 113 | 110 | 107 | 105 | 111 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 99 | 97 | 97 | 95 | 94 | 92 | | | 92 | | | | | | | | | | | | | | | | |
| 2 | 107 | 102 | 97 | 93 | 105 | 100 | 96 | 92 | 97 | 93 | 90 | 94 | 91 | 88 | 91 | 89 | 87 | 85 | | | 85 | | | | | | | | | | | | | | | | |
| 3 | 101 | 94 | 88 | 84 | 99 | 92 | 88 | 84 | 90 | 86 | 82 | 87 | 84 | 81 | 85 | 82 | 80 | 78 | | | 78 | | | | | | | | | | | | | | | | |
| 4 | 95 | 87 | 81 | 76 | 93 | 86 | 80 | 76 | 84 | 79 | 75 | 82 | 78 | 74 | 80 | 76 | 73 | 72 | | | 72 | | | | | | | | | | | | | | | | |
| 5 | 90 | 81 | 75 | 70 | 88 | 80 | 74 | 70 | 78 | 73 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | | | 66 | | | | | | | | | | | | | | | | |
| 6 | 85 | 75 | 69 | 64 | 83 | 75 | 69 | 64 | 73 | 68 | 64 | 72 | 67 | 63 | 70 | 66 | 63 | 61 | | | 61 | | | | | | | | | | | | | | | | |
| 7 | 80 | 70 | 64 | 59 | 79 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 66 | 62 | 58 | 57 | | | 57 | | | | | | | | | | | | | | | | |
| 8 | 76 | 66 | 60 | 55 | 75 | 65 | 59 | 55 | 64 | 59 | 55 | 63 | 58 | 55 | 62 | 58 | 54 | 53 | | | 53 | | | | | | | | | | | | | | | | |
| 9 | 72 | 62 | 56 | 51 | 71 | 61 | 55 | 51 | 60 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | | | 49 | | | | | | | | | | | | | | | | |
| 10 | 69 | 58 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 52 | 48 | 56 | 51 | 48 | 55 | 51 | 48 | 46 | | | 46 | | | | | | | | | | | | | | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 56511 |
| 5° | 55503 |
| 10° | 52666 |
| 15° | 49387 |
| 20° | 45996 |
| 25° | 42385 |
| 30° | 35316 |
| 35° | 24889 |
| 40° | 15858 |
| 45° | 9457 |
| 50° | 5582 |
| 55° | 3549 |
| 60° | 2453 |
| 65° | 1729 |
| 70° | 1183 |
| 75° | 958 |
| 80° | 451 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 79.2 | 9.0 |
| 10°-20° | 204.9 | 23.4 |
| 20°-30° | 265.5 | 30.3 |
| 30°-40° | 197.1 | 22.5 |
| 40°-50° | 83.2 | 9.5 |
| 50°-60° | 29.5 | 3.4 |
| 60°-70° | 11.4 | 1.3 |
| 70°-80° | 3.9 | 0.5 |
| 80°-90° | 0.5 | 0.1 |
| 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° | 549.6 | 62.8 |
| 0°-40° | 746.7 | 85.3 |
| 0°-60° | 859.5 | 98.2 |
| 0°-90° | 875.3 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 875.3 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|-----|------|
| 0° | 866 | |
| 5° | 848 | 79 |
| 15° | 731 | 205 |
| 25° | 589 | 266 |
| 35° | 312 | 197 |
| 45° | 102 | 83 |
| 55° | 31 | 30 |
| 65° | 11 | 11 |
| 75° | 4 | 4 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|-------|
| 0° | 866.2 |
| 2.5° | 863.8 |
| 5° | 847.5 |
| 7.5° | 823.8 |
| 10° | 795.0 |
| 12.5° | 763.8 |
| 15° | 731.2 |
| 17.5° | 695.0 |
| 20° | 662.5 |
| 22.5° | 628.8 |
| 25° | 588.8 |
| 27.5° | 533.8 |
| 30° | 468.8 |
| 32.5° | 392.5 |
| 35° | 312.5 |
| 37.5° | 245.0 |
| 40° | 186.2 |
| 42.5° | 138.8 |
| 45° | 102.5 |
| 47.5° | 75.0 |
| 50° | 55.0 |
| 52.5° | 41.2 |
| 55° | 31.2 |
| 57.5° | 23.8 |
| 60° | 18.8 |
| 62.5° | 13.8 |
| 65° | 11.2 |
| 67.5° | 8.8 |
| 70° | 6.2 |
| 72.5° | 5.0 |
| 75° | 3.8 |
| 77.5° | 2.5 |
| 80° | 1.2 |
| 82.5° | 1.2 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)