

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: P35287

Luminaire Tested: **LE_6B10D010 EC6B10209027 6LBNLI1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P35287
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10209027 6LBNLI1
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
NARROW DISTRIBUTION WITH 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: 866.9 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Spacing Criteria (0/90/45): 0.53 / 0.53 / 0.58
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

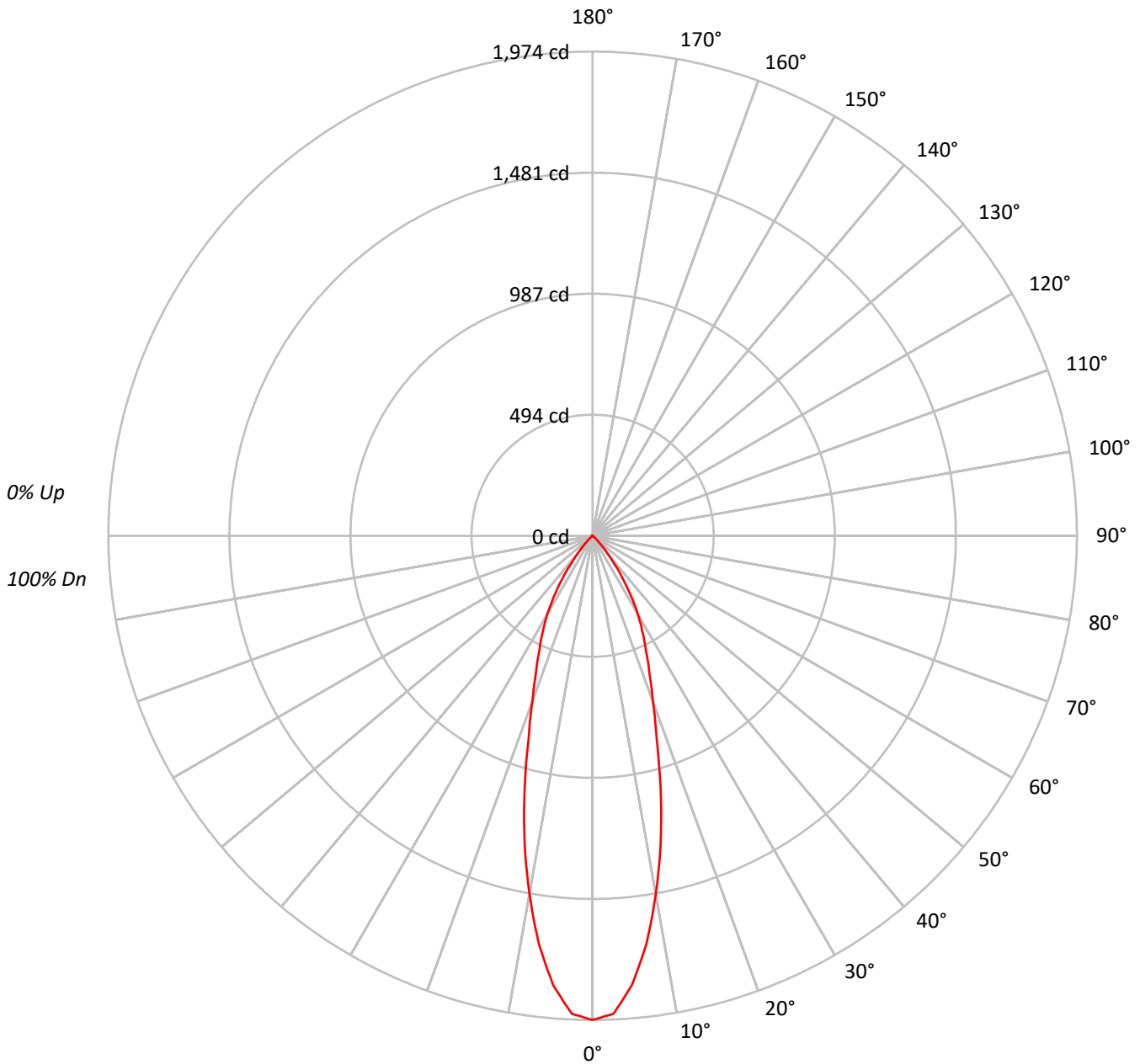
Input Watts (W): 9.7
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|----|---|
| RF | 20 | | | | 20 | | | | 20 | | | | 20 | | | | 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 | 114 | 112 | 109 | 107 | 112 | 109 | 107 | 106 | 105 | 104 | 102 | 102 | 101 | 99 | 98 | 97 | 96 | 95 | | | |
| 2 | 109 | 105 | 101 | 98 | 107 | 103 | 100 | 97 | 100 | 97 | 95 | 97 | 95 | 93 | 94 | 93 | 91 | 89 | | | |
| 3 | 105 | 99 | 94 | 91 | 103 | 97 | 93 | 90 | 95 | 91 | 89 | 93 | 90 | 87 | 90 | 88 | 86 | 85 | | | |
| 4 | 100 | 93 | 88 | 85 | 98 | 92 | 88 | 84 | 90 | 86 | 83 | 88 | 85 | 82 | 86 | 84 | 81 | 80 | | | |
| 5 | 96 | 88 | 83 | 79 | 94 | 87 | 83 | 79 | 86 | 82 | 78 | 84 | 81 | 78 | 83 | 80 | 77 | 76 | | | |
| 6 | 92 | 84 | 79 | 75 | 90 | 83 | 78 | 75 | 82 | 77 | 74 | 80 | 76 | 74 | 79 | 76 | 73 | 72 | | | |
| 7 | 88 | 80 | 74 | 71 | 87 | 79 | 74 | 71 | 78 | 73 | 70 | 77 | 73 | 70 | 76 | 72 | 69 | 68 | | | |
| 8 | 84 | 76 | 71 | 67 | 83 | 75 | 70 | 67 | 74 | 70 | 67 | 73 | 69 | 66 | 73 | 69 | 66 | 65 | | | |
| 9 | 81 | 73 | 67 | 64 | 80 | 72 | 67 | 64 | 71 | 67 | 63 | 70 | 66 | 63 | 70 | 66 | 63 | 62 | | | |
| 10 | 78 | 69 | 64 | 61 | 77 | 69 | 64 | 61 | 68 | 64 | 61 | 67 | 63 | 60 | 67 | 63 | 60 | 59 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 128772 |
| 5° | 120423 |
| 10° | 98211 |
| 15° | 72270 |
| 20° | 49814 |
| 25° | 36986 |
| 30° | 27783 |
| 35° | 17323 |
| 40° | 8414 |
| 45° | 2879 |
| 50° | 386 |
| 55° | 284 |
| 60° | 157 |
| 65° | 185 |
| 70° | 229 |
| 75° | 0 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 164.1 | 18.9 |
| 10°-20° | 294.5 | 34.0 |
| 20°-30° | 238.2 | 27.5 |
| 30°-40° | 137.2 | 15.8 |
| 40°-50° | 29.0 | 3.3 |
| 50°-60° | 2.5 | 0.3 |
| 60°-70° | 1.2 | 0.1 |
| 70°-80° | 0.2 | 0.0 |
| 80°-90° | 0.0 | 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° | 696.8 | 80.4 |
| 0°-40° | 834.0 | 96.2 |
| 0°-60° | 865.5 | 99.8 |
| 0°-90° | 866.9 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 866.9 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1974 | |
| 5° | 1839 | 164 |
| 15° | 1070 | 295 |
| 25° | 514 | 238 |
| 35° | 218 | 137 |
| 45° | 31 | 29 |
| 55° | 2 | 3 |
| 65° | 1 | 1 |
| 75° | 0 | 0 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1973.8 |
| 2.5° | 1950.0 |
| 5° | 1838.8 |
| 7.5° | 1678.8 |
| 10° | 1482.5 |
| 12.5° | 1281.2 |
| 15° | 1070.0 |
| 17.5° | 866.2 |
| 20° | 717.5 |
| 22.5° | 603.8 |
| 25° | 513.8 |
| 27.5° | 437.5 |
| 30° | 368.8 |
| 32.5° | 292.5 |
| 35° | 217.5 |
| 37.5° | 151.2 |
| 40° | 98.8 |
| 42.5° | 60.0 |
| 45° | 31.2 |
| 47.5° | 12.5 |
| 50° | 3.8 |
| 52.5° | 3.8 |
| 55° | 2.5 |
| 57.5° | 2.5 |
| 60° | 1.2 |
| 62.5° | 1.2 |
| 65° | 1.2 |
| 67.5° | 1.2 |
| 70° | 1.2 |
| 72.5° | 0.0 |
| 75° | 0.0 |
| 77.5° | 0.0 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)