

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: P203253

Luminaire Tested: **LE_6B30D010 EC6B30509024 6LBMH1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P203253
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: PORTFOLIO
Catalog Number: LE_6B30D010 EC6B30509024 6LBMH1
Description: PORTFOLIO 6 INCH 50 DEGREE CUTOFF RECESSED DOWNLIGHT
MEDIUM DISTRIBUTION WITH SEMI-SPECULAR CLEAR TRIM
WATTAGE D010TR-27.4 W DE010-27.95 W D5LT-27.65 W DMX-27.73 W DL2-29.56 W
DL3-29.67 W DLE-29.73 W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1951.0 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

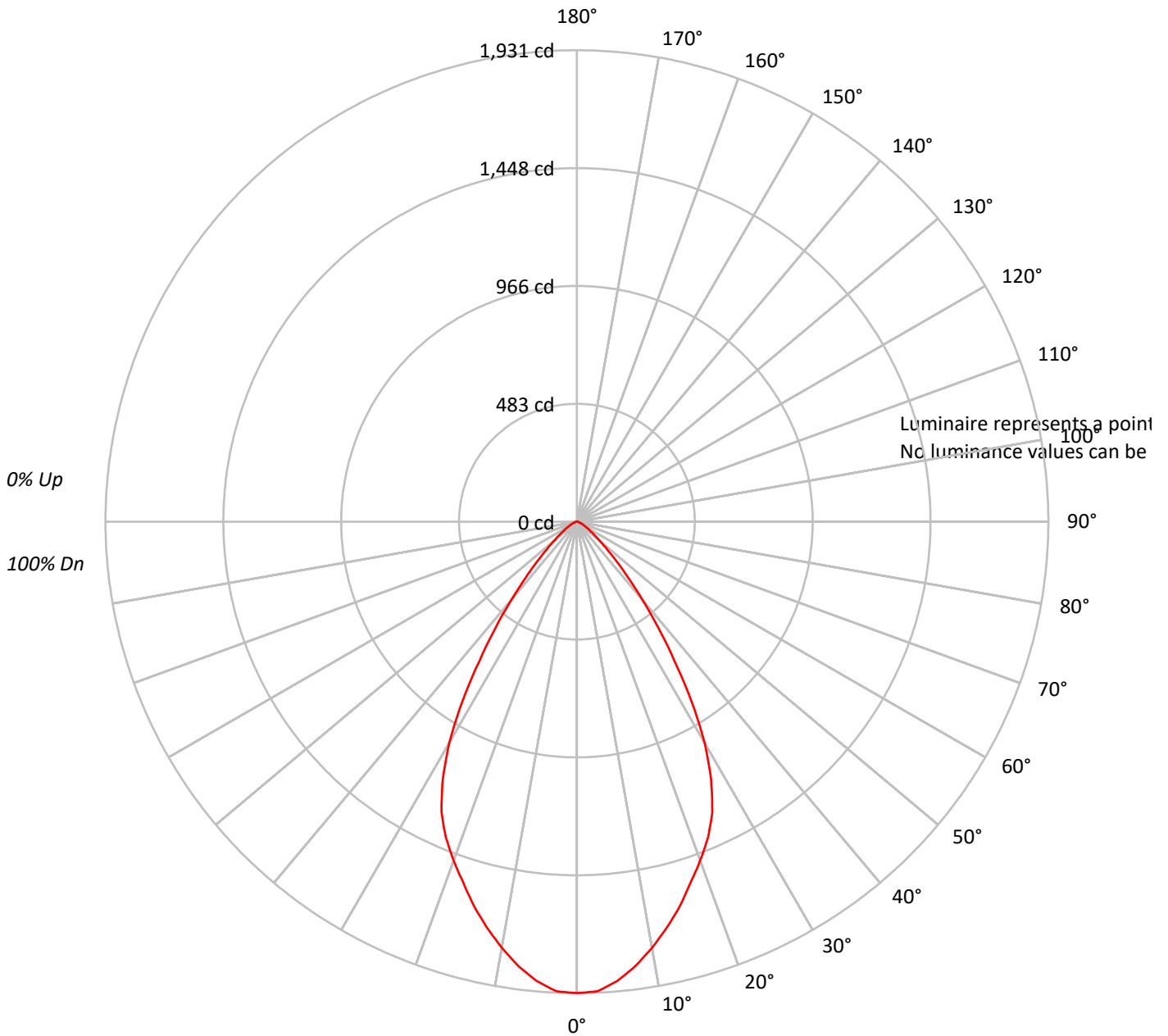
Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 176.5 | 9.0 |
| 10°-20° | 456.7 | 23.4 |
| 20°-30° | 591.7 | 30.3 |
| 30°-40° | 439.3 | 22.5 |
| 40°-50° | 185.4 | 9.5 |
| 50°-60° | 65.9 | 3.4 |
| 60°-70° | 25.4 | 1.3 |
| 70°-80° | 8.8 | 0.5 |
| 80°-90° | 1.1 | 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° | 1225.0 | 62.8 |
| 0°-40° | 1664.3 | 85.3 |
| 0°-60° | 1915.7 | 98.2 |
| 0°-90° | 1951.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 1951.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1931 | |
| 5° | 1889 | 177 |
| 15° | 1630 | 457 |
| 25° | 1312 | 592 |
| 35° | 696 | 439 |
| 45° | 228 | 185 |
| 55° | 70 | 66 |
| 65° | 25 | 25 |
| 75° | 8 | 9 |
| 85° | 0 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 1930.8 |
| 2.5° | 1925.2 |
| 5° | 1889.0 |
| 7.5° | 1836.1 |
| 10° | 1772.0 |
| 12.5° | 1702.4 |
| 15° | 1629.9 |
| 17.5° | 1549.1 |
| 20° | 1476.6 |
| 22.5° | 1401.4 |
| 25° | 1312.2 |
| 27.5° | 1189.6 |
| 30° | 1044.8 |
| 32.5° | 874.9 |
| 35° | 696.5 |
| 37.5° | 546.1 |
| 40° | 415.1 |
| 42.5° | 309.2 |
| 45° | 228.5 |
| 47.5° | 167.1 |
| 50° | 122.6 |
| 52.5° | 92.0 |
| 55° | 69.6 |
| 57.5° | 52.9 |
| 60° | 41.8 |
| 62.5° | 30.6 |
| 65° | 25.1 |
| 67.5° | 19.5 |
| 70° | 13.9 |
| 72.5° | 11.1 |
| 75° | 8.4 |
| 77.5° | 5.6 |
| 80° | 2.8 |
| 82.5° | 2.8 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



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— 0°-180°







(END OF REPORT)