

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P578178

Luminaire Tested: **FLD6C-55-D010 FEU6C-X-90-35 F6X-W-X-LI**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P578178
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P205209)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-55-D010 FEU6C-X-90-35 F6X-W-X-LI
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3500K, 90 CRI LEDS, 6LBWLI TRIM

Light Source: -
Ballast/Driver: -

Summary

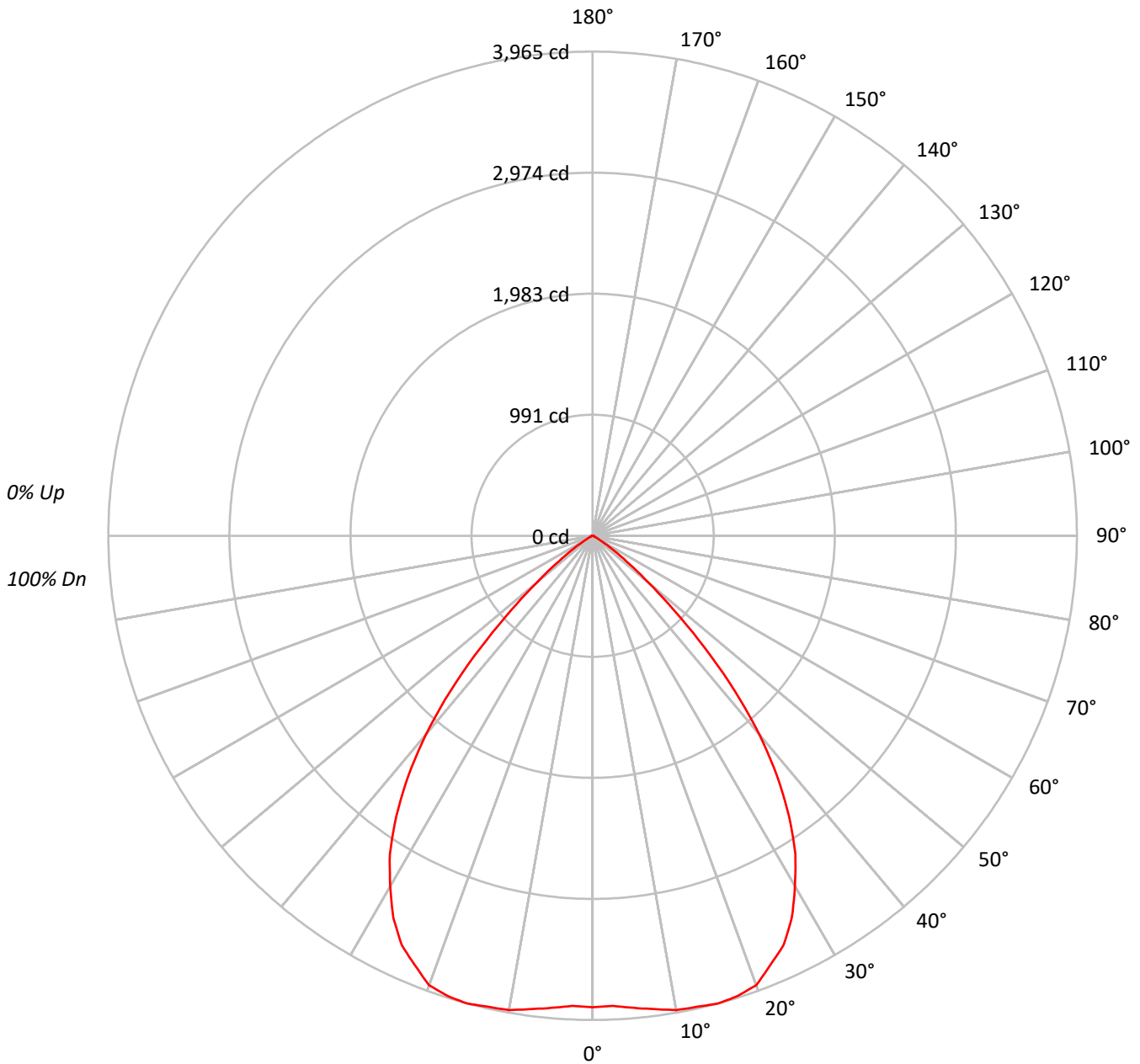
Lumens per Lamp: N/A
Luminaire Lumens: 6179.0 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 63.9
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 | | | | 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 | 113 | 110 | 107 | 104 | 110 | 107 | 105 | 103 | 103 | 101 | 99 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | | | | 92 |
| 2 | 106 | 101 | 96 | 92 | 104 | 99 | 95 | 91 | 95 | 92 | 89 | 92 | 90 | 87 | 90 | 87 | 85 | 83 | | | | 83 |
| 3 | 100 | 92 | 87 | 82 | 97 | 91 | 86 | 81 | 88 | 84 | 80 | 86 | 82 | 79 | 83 | 80 | 77 | 76 | | | | 76 |
| 4 | 93 | 85 | 78 | 73 | 92 | 84 | 78 | 73 | 81 | 76 | 72 | 79 | 75 | 71 | 77 | 74 | 70 | 69 | | | | 69 |
| 5 | 88 | 78 | 71 | 66 | 86 | 77 | 71 | 66 | 75 | 70 | 65 | 73 | 69 | 65 | 72 | 68 | 64 | 63 | | | | 63 |
| 6 | 82 | 72 | 65 | 60 | 81 | 71 | 65 | 60 | 70 | 64 | 59 | 68 | 63 | 59 | 67 | 62 | 59 | 57 | | | | 57 |
| 7 | 77 | 67 | 60 | 55 | 76 | 66 | 59 | 55 | 65 | 59 | 54 | 63 | 58 | 54 | 62 | 57 | 54 | 52 | | | | 52 |
| 8 | 73 | 62 | 55 | 50 | 71 | 61 | 55 | 50 | 60 | 54 | 50 | 59 | 54 | 50 | 58 | 53 | 49 | 48 | | | | 48 |
| 9 | 69 | 57 | 51 | 46 | 67 | 57 | 50 | 46 | 56 | 50 | 46 | 55 | 50 | 46 | 54 | 49 | 46 | 44 | | | | 44 |
| 10 | 65 | 54 | 47 | 43 | 64 | 53 | 47 | 42 | 52 | 46 | 42 | 51 | 46 | 42 | 51 | 46 | 42 | 41 | | | | 41 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 211617 |
| 5° | 213575 |
| 10° | 219552 |
| 15° | 225041 |
| 20° | 228459 |
| 25° | 223743 |
| 30° | 209766 |
| 35° | 187545 |
| 40° | 151906 |
| 45° | 100483 |
| 50° | 50787 |
| 55° | 21428 |
| 60° | 6907 |
| 65° | 2711 |
| 70° | 2260 |
| 75° | 1504 |
| 80° | 0 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 372.4 | 6.0 |
| 10°-20° | 1119.3 | 18.1 |
| 20°-30° | 1687.3 | 27.3 |
| 30°-40° | 1727.0 | 27.9 |
| 40°-50° | 1006.1 | 16.3 |
| 50°-60° | 231.2 | 3.7 |
| 60°-70° | 28.4 | 0.5 |
| 70°-80° | 7.5 | 0.1 |
| 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° | 3178.9 | 51.4 |
| 0°-40° | 4905.9 | 79.4 |
| 0°-60° | 6143.2 | 99.4 |
| 0°-90° | 6179.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6179.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 3860 | |
| 5° | 3881 | 372 |
| 15° | 3965 | 1119 |
| 25° | 3699 | 1687 |
| 35° | 2802 | 1727 |
| 45° | 1296 | 1006 |
| 55° | 224 | 231 |
| 65° | 21 | 28 |
| 75° | 7 | 7 |
| 85° | 0 | 0 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 3860.2 |
| 2.5° | 3853.1 |
| 5° | 3881.1 |
| 7.5° | 3909.1 |
| 10° | 3944.1 |
| 12.5° | 3951.1 |
| 15° | 3965.2 |
| 17.5° | 3951.1 |
| 20° | 3916.1 |
| 22.5° | 3804.0 |
| 25° | 3699.0 |
| 27.5° | 3530.9 |
| 30° | 3313.8 |
| 32.5° | 3089.6 |
| 35° | 2802.4 |
| 37.5° | 2479.9 |
| 40° | 2122.7 |
| 42.5° | 1723.4 |
| 45° | 1296.1 |
| 47.5° | 903.6 |
| 50° | 595.5 |
| 52.5° | 378.4 |
| 55° | 224.2 |
| 57.5° | 119.2 |
| 60° | 63.0 |
| 62.5° | 35.0 |
| 65° | 20.9 |
| 67.5° | 20.9 |
| 70° | 14.1 |
| 72.5° | 7.1 |
| 75° | 7.1 |
| 77.5° | 7.1 |
| 80° | 0.0 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)