

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: P576568

Luminaire Tested: **FLD6C-30-D010 FEU6C-X-90-30 F6X-M-X-H**

Issue Date: 3/1/2023



Test Information

Test Method: LM-79-08
Report Number: P576568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P203254)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/1/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6C-30-D010 FEU6C-X-90-30 F6X-M-X-H
Description: 6 INCH FAIL-SAFE LED DOWNLIGHT WITH 3000K, 90 CRI LEDS, 6LBMH TRIM

Light Source: -
Ballast/Driver: -

Summary

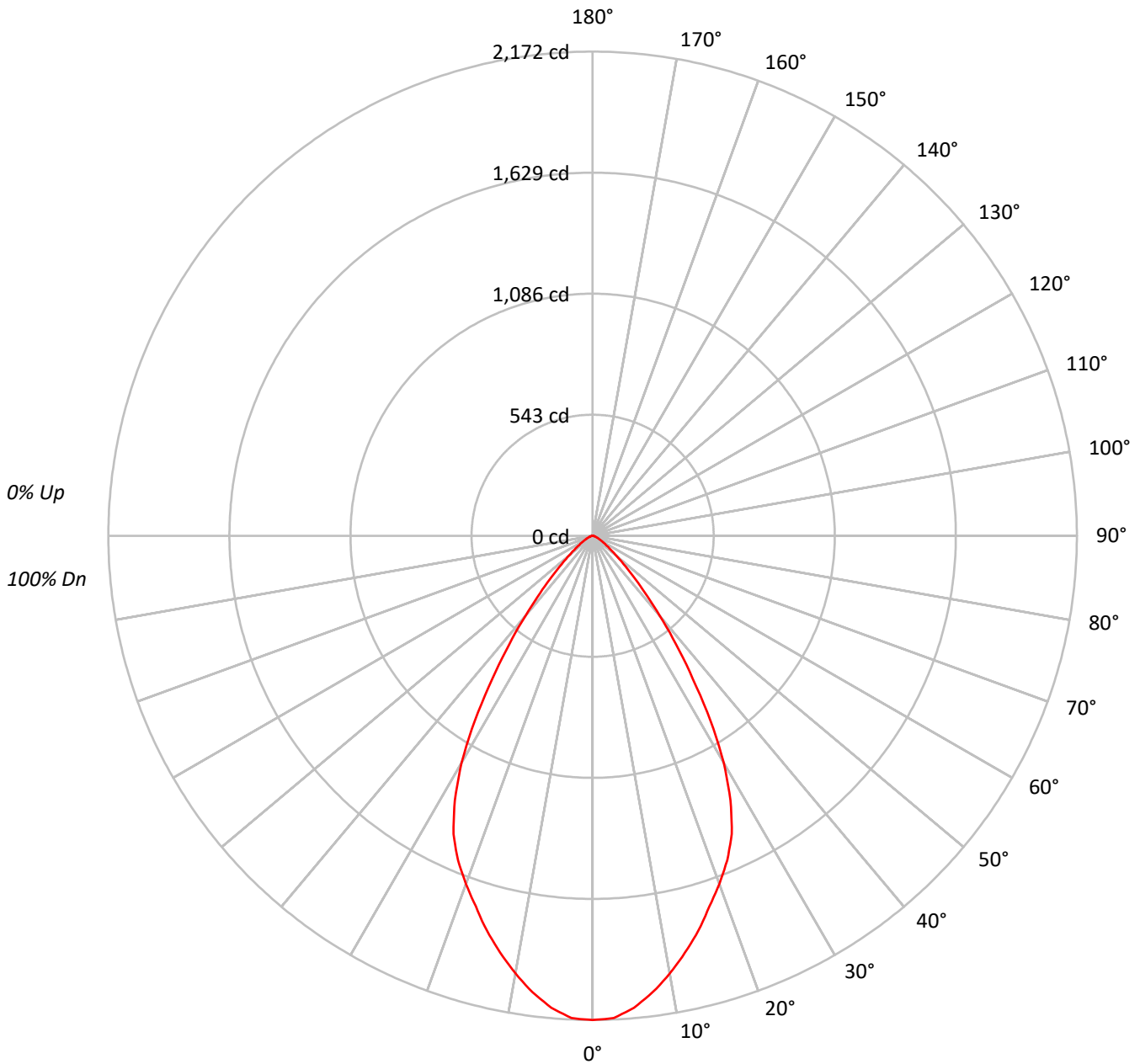
Lumens per Lamp: N/A
Luminaire Lumens: 2195.0 lumens
Efficiency: N/A
Efficacy: 69.5 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.93
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 31.6
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

TEST NUMBER: P576568

CATALOG NUMBER: FLD6C-30-D010 FEU6C-X-90-30 F6X-M-X-H

Luminous Intensity Polar Plot





TEST NUMBER: P576568

CATALOG NUMBER: FLD6C-30-D010 FEU6C-X-90-30 F6X-M-X-H

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 | 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 | 88 | 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):

| | |
|-----|--------|
| | 0° |
| 0° | 119086 |
| 5° | 116954 |
| 10° | 110975 |
| 15° | 104070 |
| 20° | 96918 |
| 25° | 89304 |
| 30° | 74410 |
| 35° | 52441 |
| 40° | 33420 |
| 45° | 19932 |
| 50° | 11761 |
| 55° | 7484 |
| 60° | 5153 |
| 65° | 3658 |
| 70° | 2516 |
| 75° | 1991 |
| 80° | 979 |
| 85° | 0 |



TEST NUMBER: P576568

CATALOG NUMBER: FLD6C-30-D010 FEU6C-X-90-30 F6X-M-X-H

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 198.6 | 9.0 |
| 10°-20° | 513.8 | 23.4 |
| 20°-30° | 665.8 | 30.3 |
| 30°-40° | 494.3 | 22.5 |
| 40°-50° | 208.7 | 9.5 |
| 50°-60° | 74.1 | 3.4 |
| 60°-70° | 28.6 | 1.3 |
| 70°-80° | 9.9 | 0.5 |
| 80°-90° | 1.3 | 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° | 1378.2 | 62.8 |
| 0°-40° | 1872.5 | 85.3 |
| 0°-60° | 2155.2 | 98.2 |
| 0°-90° | 2195.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2195.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 2172 | |
| 5° | 2125 | 199 |
| 15° | 1834 | 514 |
| 25° | 1476 | 666 |
| 35° | 784 | 494 |
| 45° | 257 | 209 |
| 55° | 78 | 74 |
| 65° | 28 | 29 |
| 75° | 9 | 10 |
| 85° | 0 | 1 |
| 90° | 0 | |



TEST NUMBER: P576568

CATALOG NUMBER: FLD6C-30-D010 FEU6C-X-90-30 F6X-M-X-H

CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 2172.3 |
| 2.5° | 2166.0 |
| 5° | 2125.3 |
| 7.5° | 2065.6 |
| 10° | 1993.6 |
| 12.5° | 1915.2 |
| 15° | 1833.7 |
| 17.5° | 1742.9 |
| 20° | 1661.3 |
| 22.5° | 1576.7 |
| 25° | 1476.4 |
| 27.5° | 1338.4 |
| 30° | 1175.5 |
| 32.5° | 984.2 |
| 35° | 783.6 |
| 37.5° | 614.4 |
| 40° | 467.0 |
| 42.5° | 347.9 |
| 45° | 257.1 |
| 47.5° | 188.1 |
| 50° | 137.9 |
| 52.5° | 103.4 |
| 55° | 78.3 |
| 57.5° | 59.5 |
| 60° | 47.0 |
| 62.5° | 34.5 |
| 65° | 28.2 |
| 67.5° | 21.9 |
| 70° | 15.7 |
| 72.5° | 12.5 |
| 75° | 9.4 |
| 77.5° | 6.3 |
| 80° | 3.1 |
| 82.5° | 3.1 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180°







(END OF REPORT)