

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: P365145

Luminaire Tested: **FLD6BX70D010TE-FEU6B67-8050-F6LBXVM1-LI-BL89AM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P365145
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-44)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX70D010TE-FEU6B67-8050-F6LBXVM1-LI-BL89AM
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, SPECULAR CLEAR REFLECTOR,
BOTTOM LENS POLYCARBONATE, OPAL SMOOTH 0.125", 7000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2844.0 lumens
Efficiency: N/A
Efficacy: 38.7 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.25 / 1.37
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

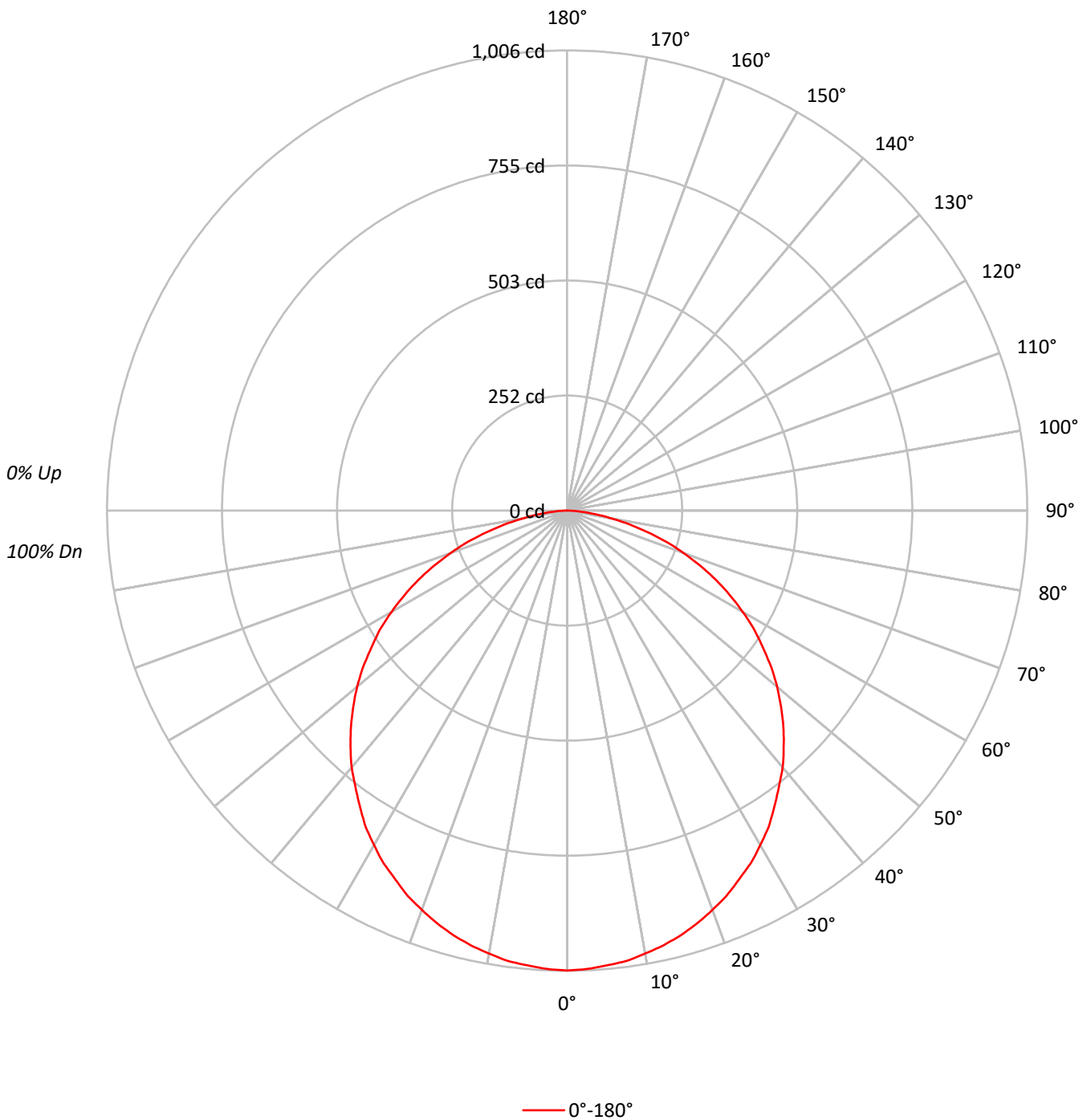
Input Watts (W): 73.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | | 106 | 106 | 106 | | 102 | 102 | 102 | 100 |
| 1 | 109 | 104 | 100 | 96 | 106 | 102 | 98 | 94 | 98 | 94 | 91 | | 94 | 91 | 89 | | 90 | 88 | 86 | 84 |
| 2 | 99 | 91 | 84 | 78 | 96 | 89 | 83 | 77 | 85 | 80 | 75 | | 82 | 78 | 74 | | 79 | 75 | 72 | 70 |
| 3 | 90 | 80 | 71 | 65 | 88 | 78 | 70 | 64 | 75 | 68 | 63 | | 72 | 67 | 62 | | 70 | 65 | 61 | 59 |
| 4 | 82 | 70 | 62 | 55 | 80 | 69 | 61 | 54 | 67 | 59 | 54 | | 64 | 58 | 53 | | 62 | 57 | 52 | 50 |
| 5 | 76 | 63 | 54 | 47 | 74 | 62 | 53 | 47 | 60 | 52 | 46 | | 58 | 51 | 46 | | 56 | 50 | 45 | 43 |
| 6 | 70 | 57 | 48 | 41 | 68 | 56 | 47 | 41 | 54 | 46 | 41 | | 52 | 45 | 40 | | 51 | 45 | 40 | 38 |
| 7 | 65 | 51 | 42 | 36 | 63 | 50 | 42 | 36 | 49 | 41 | 36 | | 47 | 41 | 36 | | 46 | 40 | 35 | 33 |
| 8 | 60 | 47 | 38 | 32 | 59 | 46 | 38 | 32 | 45 | 37 | 32 | | 43 | 37 | 32 | | 42 | 36 | 32 | 30 |
| 9 | 56 | 43 | 35 | 29 | 55 | 42 | 34 | 29 | 41 | 34 | 29 | | 40 | 33 | 29 | | 39 | 33 | 29 | 27 |
| 10 | 53 | 40 | 32 | 26 | 52 | 39 | 31 | 26 | 38 | 31 | 26 | | 37 | 31 | 26 | | 36 | 30 | 26 | 24 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|-------|
| | 0° |
| 0° | 27468 |
| 5° | 27370 |
| 10° | 27273 |
| 15° | 27176 |
| 20° | 26999 |
| 25° | 26800 |
| 30° | 26639 |
| 35° | 26347 |
| 40° | 26141 |
| 45° | 25832 |
| 50° | 25472 |
| 55° | 24888 |
| 60° | 24223 |
| 65° | 23210 |
| 70° | 21563 |
| 75° | 19081 |
| 80° | 15589 |
| 85° | 10092 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 94.9 | 3.3 |
| 10°-20° | 271.1 | 9.5 |
| 20°-30° | 410.4 | 14.4 |
| 30°-40° | 494.7 | 17.4 |
| 40°-50° | 515.5 | 18.1 |
| 50°-60° | 467.8 | 16.4 |
| 60°-70° | 354.2 | 12.5 |
| 70°-80° | 192.9 | 6.8 |
| 80°-90° | 42.4 | 1.5 |
| 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 |
| <hr/> | | |
| 0°-30° | 776.4 | 27.3 |
| 0°-40° | 1271.2 | 44.7 |
| 0°-60° | 2254.5 | 79.3 |
| 0°-90° | 2844.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 2844.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 1006 | |
| 5° | 998 | 95 |
| 15° | 961 | 271 |
| 25° | 889 | 410 |
| 35° | 790 | 495 |
| 45° | 669 | 516 |
| 55° | 523 | 468 |
| 65° | 359 | 354 |
| 75° | 181 | 193 |
| 85° | 32 | 42 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 1005.6 |
| 2.5° | 1003.1 |
| 5° | 998.2 |
| 7.5° | 993.2 |
| 10° | 983.3 |
| 12.5° | 973.4 |
| 15° | 961.0 |
| 17.5° | 946.1 |
| 20° | 928.8 |
| 22.5° | 911.5 |
| 25° | 889.2 |
| 27.5° | 869.4 |
| 30° | 844.6 |
| 32.5° | 819.8 |
| 35° | 790.1 |
| 37.5° | 760.4 |
| 40° | 733.1 |
| 42.5° | 700.9 |
| 45° | 668.7 |
| 47.5° | 634.1 |
| 50° | 599.4 |
| 52.5° | 562.2 |
| 55° | 522.6 |
| 57.5° | 485.5 |
| 60° | 443.4 |
| 62.5° | 401.2 |
| 65° | 359.1 |
| 67.5° | 314.6 |
| 70° | 270.0 |
| 72.5° | 227.9 |
| 75° | 180.8 |
| 77.5° | 138.7 |
| 80° | 99.1 |
| 82.5° | 61.9 |
| 85° | 32.2 |
| 87.5° | 12.4 |
| 90° | 0.0 |

(END OF REPORT)