

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: P236153

Luminaire Tested: **FLD6BX70D010 EU6B6/78040 F6LBXVM1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P236153
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: FAIL-SAFE
Catalog Number: FLD6BX70D010 EU6B6/78040 F6LBXVM1LI
Description: FAILSAFE 6 INCH RECESSED LED DOWNLIGHT
6" LED Vandal Resistant, Medium (50° Beam), Specular Clear, Bottom open
Light Source: (1) 4000K CCT, 80 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6569.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 0.94 / 0.91
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

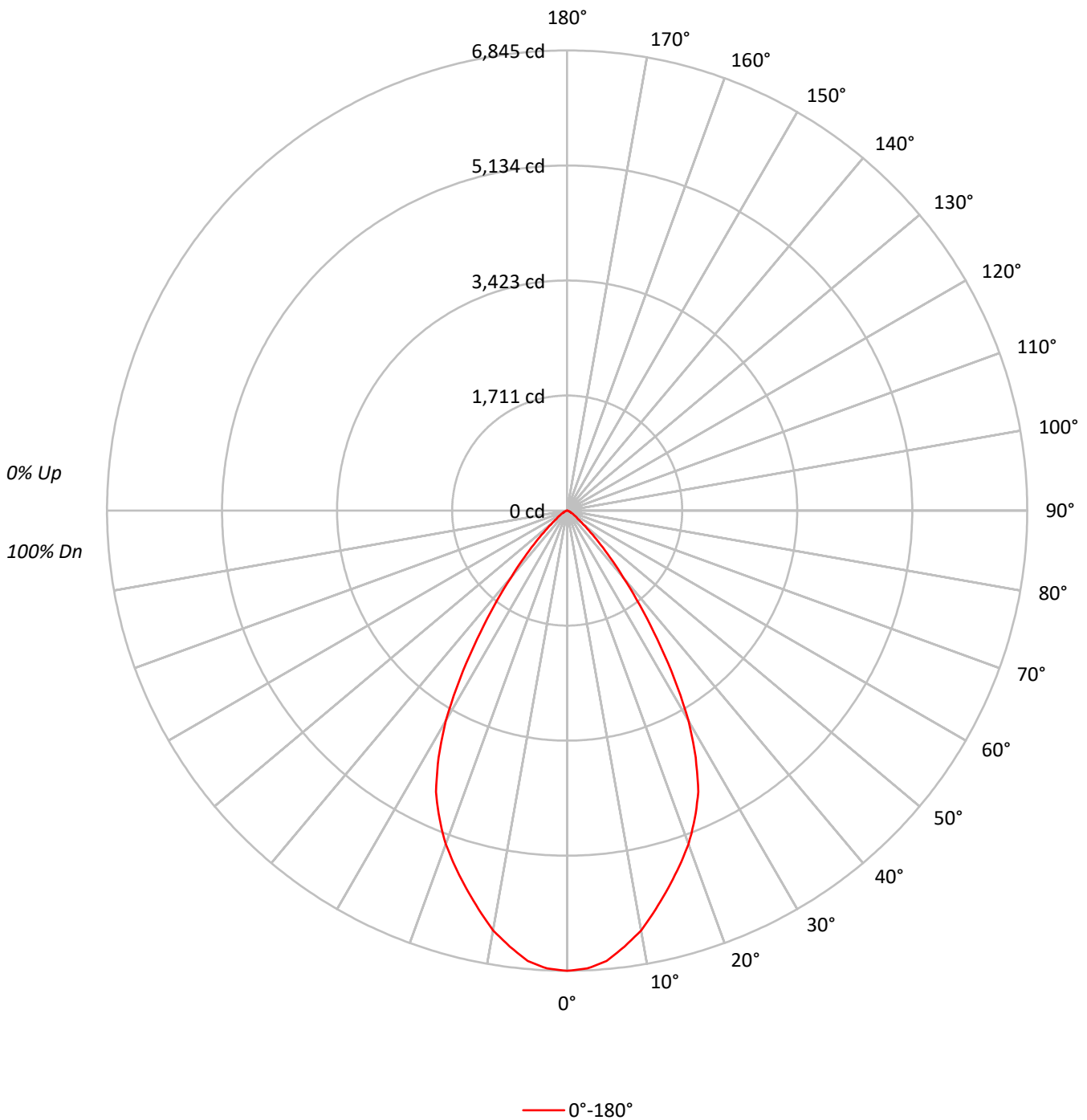
Input Watts (W): 79.45
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 0 |
| RCR | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1 | 113 | 110 | 108 | 105 | 111 | 108 | 106 | 104 | 104 | 102 | 101 | 100 | 99 | 98 | 97 | 96 | 95 | 93 |
| 2 | 107 | 102 | 98 | 94 | 105 | 100 | 97 | 93 | 97 | 94 | 91 | 94 | 92 | 89 | 91 | 89 | 87 | 86 |
| 3 | 102 | 95 | 90 | 85 | 100 | 93 | 89 | 85 | 91 | 87 | 83 | 88 | 85 | 82 | 86 | 83 | 81 | 79 |
| 4 | 96 | 88 | 82 | 78 | 94 | 87 | 82 | 77 | 85 | 80 | 77 | 83 | 79 | 76 | 81 | 78 | 75 | 73 |
| 5 | 91 | 82 | 76 | 72 | 89 | 81 | 76 | 71 | 79 | 74 | 71 | 78 | 73 | 70 | 76 | 72 | 69 | 68 |
| 6 | 86 | 77 | 71 | 66 | 85 | 76 | 70 | 66 | 74 | 69 | 65 | 73 | 68 | 65 | 72 | 68 | 64 | 63 |
| 7 | 82 | 72 | 66 | 61 | 80 | 71 | 65 | 61 | 70 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 59 |
| 8 | 77 | 68 | 61 | 57 | 76 | 67 | 61 | 57 | 66 | 60 | 57 | 65 | 60 | 56 | 64 | 59 | 56 | 55 |
| 9 | 74 | 64 | 57 | 53 | 72 | 63 | 57 | 53 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 51 |
| 10 | 70 | 60 | 54 | 50 | 69 | 59 | 54 | 50 | 59 | 53 | 50 | 58 | 53 | 49 | 57 | 53 | 49 | 48 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 446585 |
| 5° | 440472 |
| 10° | 420079 |
| 15° | 392453 |
| 20° | 366571 |
| 25° | 332326 |
| 30° | 271825 |
| 35° | 185953 |
| 40° | 110724 |
| 45° | 59972 |
| 50° | 29627 |
| 55° | 18108 |
| 60° | 12122 |
| 65° | 8197 |
| 70° | 5055 |
| 75° | 3353 |
| 80° | 4997 |
| 85° | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 628.8 | 9.6 |
| 10°-20° | 1631.8 | 24.8 |
| 20°-30° | 2079.1 | 31.6 |
| 30°-40° | 1469.3 | 22.4 |
| 40°-50° | 536.4 | 8.2 |
| 50°-60° | 148.7 | 2.3 |
| 60°-70° | 53.9 | 0.8 |
| 70°-80° | 19.2 | 0.3 |
| 80°-90° | 1.8 | 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° | 4339.7 | 66.1 |
| 0°-40° | 5809.0 | 88.4 |
| 0°-60° | 6494.1 | 98.9 |
| 0°-90° | 6569.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 6569.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6845 | |
| 5° | 6726 | 629 |
| 15° | 5810 | 1632 |
| 25° | 4617 | 2079 |
| 35° | 2335 | 1469 |
| 45° | 650 | 536 |
| 55° | 159 | 149 |
| 65° | 53 | 54 |
| 75° | 13 | 19 |
| 85° | 0 | 2 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| | 0° |
|-------|--------|
| 0° | 6845.2 |
| 2.5° | 6818.7 |
| 5° | 6725.8 |
| 7.5° | 6540.1 |
| 10° | 6341.1 |
| 12.5° | 6075.8 |
| 15° | 5810.5 |
| 17.5° | 5545.2 |
| 20° | 5279.9 |
| 22.5° | 4961.5 |
| 25° | 4616.6 |
| 27.5° | 4139.0 |
| 30° | 3608.3 |
| 32.5° | 2971.6 |
| 35° | 2334.8 |
| 37.5° | 1777.6 |
| 40° | 1300.1 |
| 42.5° | 941.9 |
| 45° | 650.0 |
| 47.5° | 437.8 |
| 50° | 291.9 |
| 52.5° | 199.0 |
| 55° | 159.2 |
| 57.5° | 119.4 |
| 60° | 92.9 |
| 62.5° | 66.3 |
| 65° | 53.1 |
| 67.5° | 39.8 |
| 70° | 26.5 |
| 72.5° | 26.5 |
| 75° | 13.3 |
| 77.5° | 13.3 |
| 80° | 13.3 |
| 82.5° | 0.0 |
| 85° | 0.0 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)