

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: P366473

Luminaire Tested: **FLD6BX60D010TE-FEU6B67-8040-F6LBXVM1-WMH-BL84**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P366473
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-544-47)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FLD6BX60D010TE-FEU6B67-8040-F6LBXVM1-WMH-BL84
Description: VANDAL RESISTANT ENCLOSED BOTTOM LENS, WARM HAZE REFLECTOR, BOTTOM LENS POLYCARBONATE, CLEAR 0.125", 6000LM
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5397.1 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Spacing Criteria (0/90/45): 0.83 / 0.83 / 0.85
Luminous Opening: Circular (Dia: 0.71' x H: 0')
CIE Type: Direct

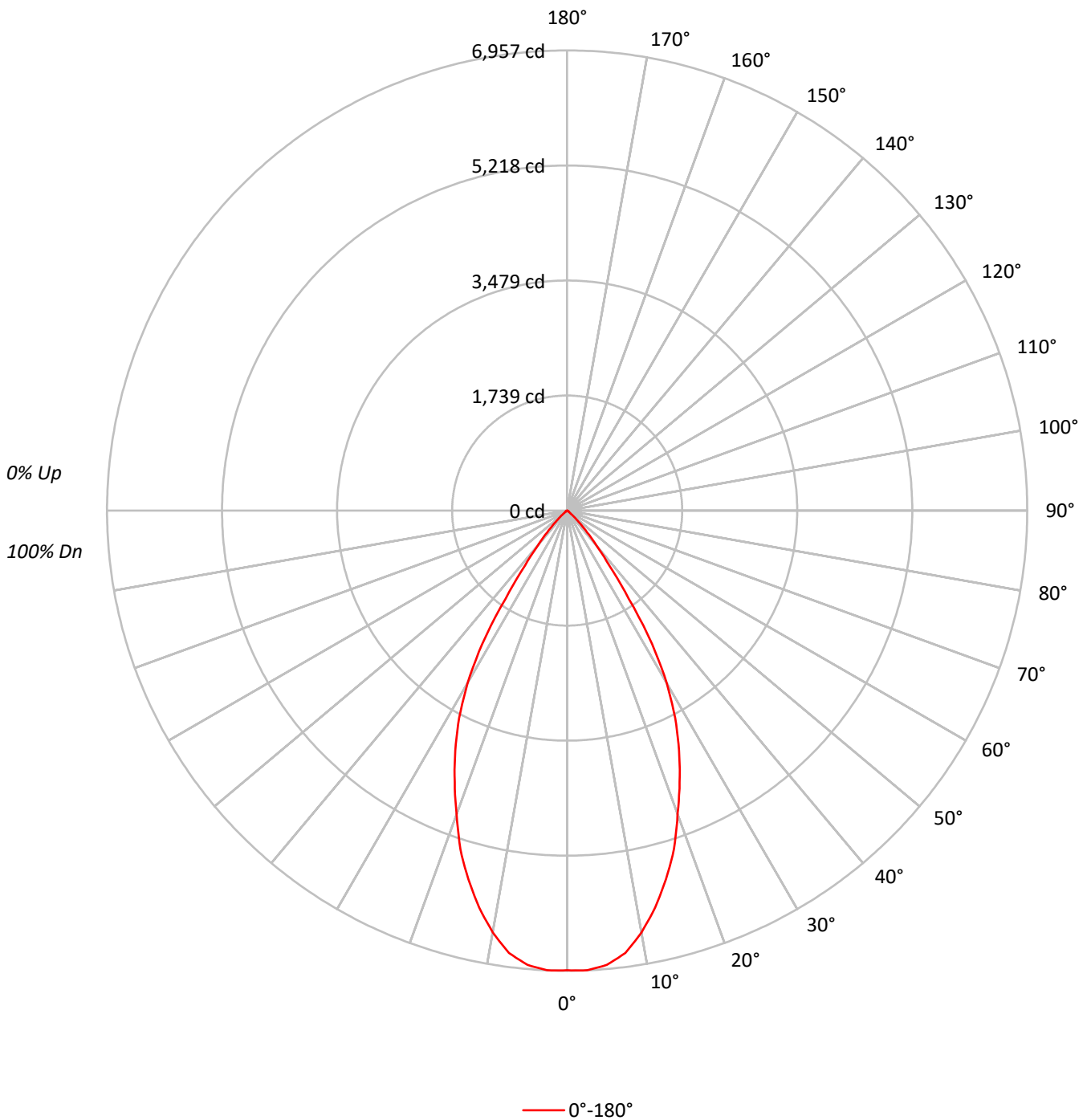
Input Watts (W): 58.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 114 | 111 | 109 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 102 | | 101 | 100 | 99 | | 98 | 97 | 96 | 94 |
| 2 | 108 | 104 | 100 | 97 | 106 | 102 | 98 | 95 | 99 | 96 | 93 | | 96 | 93 | 91 | | 93 | 91 | 89 | 88 |
| 3 | 103 | 97 | 92 | 88 | 101 | 96 | 91 | 88 | 93 | 89 | 86 | | 91 | 88 | 85 | | 88 | 86 | 84 | 82 |
| 4 | 98 | 91 | 86 | 82 | 96 | 90 | 85 | 81 | 88 | 83 | 80 | | 86 | 82 | 79 | | 84 | 81 | 78 | 77 |
| 5 | 93 | 85 | 80 | 76 | 92 | 85 | 79 | 75 | 83 | 78 | 75 | | 81 | 77 | 74 | | 80 | 76 | 73 | 72 |
| 6 | 89 | 80 | 75 | 71 | 88 | 80 | 74 | 70 | 78 | 73 | 70 | | 77 | 73 | 69 | | 76 | 72 | 69 | 68 |
| 7 | 85 | 76 | 70 | 66 | 83 | 75 | 70 | 66 | 74 | 69 | 65 | | 73 | 68 | 65 | | 72 | 68 | 65 | 63 |
| 8 | 81 | 72 | 66 | 62 | 80 | 71 | 66 | 62 | 70 | 65 | 62 | | 69 | 65 | 61 | | 68 | 64 | 61 | 60 |
| 9 | 77 | 68 | 62 | 58 | 76 | 67 | 62 | 58 | 66 | 62 | 58 | | 66 | 61 | 58 | | 65 | 61 | 58 | 56 |
| 10 | 74 | 64 | 59 | 55 | 73 | 64 | 59 | 55 | 63 | 58 | 55 | | 62 | 58 | 55 | | 62 | 58 | 55 | 53 |

AVERAGE LUMINANCE (cd/sqm):

| | |
|-----|--------|
| | 0° |
| 0° | 189863 |
| 5° | 189064 |
| 10° | 179600 |
| 15° | 163141 |
| 20° | 141961 |
| 25° | 120692 |
| 30° | 94941 |
| 35° | 54170 |
| 40° | 24372 |
| 45° | 10260 |
| 50° | 3238 |
| 55° | 981 |
| 60° | 677 |
| 65° | 530 |
| 70° | 495 |
| 75° | 654 |
| 80° | 330 |
| 85° | 658 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 645.0 | 12.0 |
| 10°-20° | 1604.8 | 29.7 |
| 20°-30° | 1818.5 | 33.7 |
| 30°-40° | 1054.2 | 19.5 |
| 40°-50° | 233.8 | 4.3 |
| 50°-60° | 25.6 | 0.5 |
| 60°-70° | 8.4 | 0.2 |
| 70°-80° | 5.4 | 0.1 |
| 80°-90° | 1.4 | 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° | 4068.2 | 75.4 |
| 0°-40° | 5122.4 | 94.9 |
| 0°-60° | 5381.8 | 99.7 |
| 0°-90° | 5397.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 5397.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | Flux |
|-----|------|------|
| 0° | 6951 | |
| 5° | 6895 | 645 |
| 15° | 5769 | 1605 |
| 25° | 4004 | 1818 |
| 35° | 1624 | 1054 |
| 45° | 266 | 234 |
| 55° | 21 | 26 |
| 65° | 8 | 8 |
| 75° | 6 | 5 |
| 85° | 2 | 1 |
| 90° | 0 | |



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CANDELA DISTRIBUTION (FULL):

| 0° | |
|-------|--------|
| 0° | 6950.8 |
| 2.5° | 6957.0 |
| 5° | 6895.2 |
| 7.5° | 6744.9 |
| 10° | 6475.2 |
| 12.5° | 6147.8 |
| 15° | 5769.0 |
| 17.5° | 5369.6 |
| 20° | 4883.7 |
| 22.5° | 4445.1 |
| 25° | 4004.5 |
| 27.5° | 3535.1 |
| 30° | 3010.1 |
| 32.5° | 2390.4 |
| 35° | 1624.5 |
| 37.5° | 1043.9 |
| 40° | 683.5 |
| 42.5° | 446.8 |
| 45° | 265.6 |
| 47.5° | 148.2 |
| 50° | 76.2 |
| 52.5° | 35.0 |
| 55° | 20.6 |
| 57.5° | 16.5 |
| 60° | 12.4 |
| 62.5° | 10.3 |
| 65° | 8.2 |
| 67.5° | 6.2 |
| 70° | 6.2 |
| 72.5° | 6.2 |
| 75° | 6.2 |
| 77.5° | 4.1 |
| 80° | 2.1 |
| 82.5° | 2.1 |
| 85° | 2.1 |
| 87.5° | 0.0 |
| 90° | 0.0 |

(END OF REPORT)