

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: McGRAW-EDISON

Report Number: P226651

Luminaire Tested: **ISW-AF-XXX-LED-E1-T4W-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P226651
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35944)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISW-AF-XXX-LED-E1-T4W-8030-XXB
Description: IMPACT ELITE LED WEDGE LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 542.6 lumens
Efficiency: N/A
Efficacy: 41.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium - Semi-Cutoff
BUG Rating: B0 - U1 - G0

Input Watts (W): 13
Input Voltage (V): 120
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

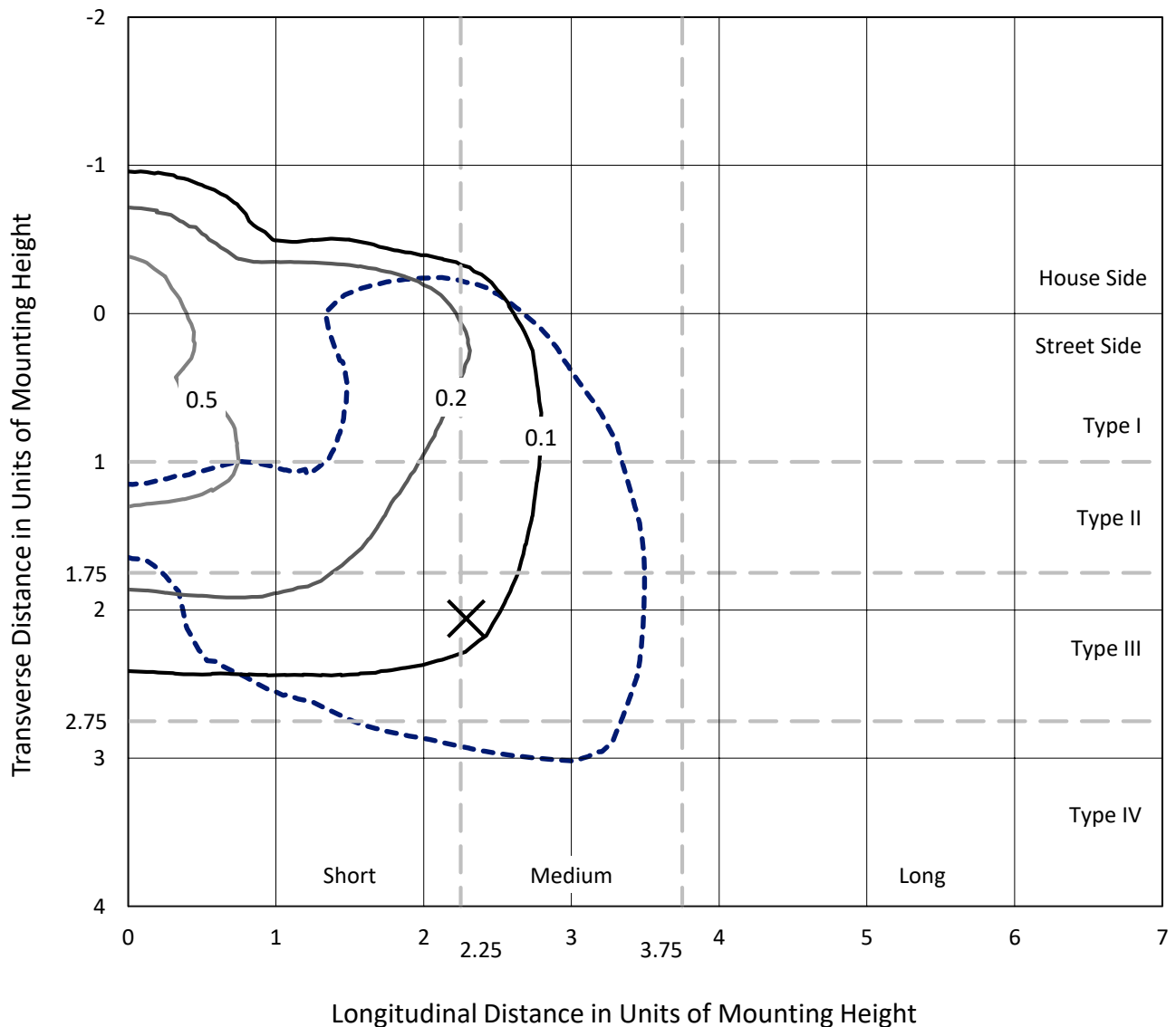


REPORT NUMBER: P226651

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

Iso-Footcandle Lines of Horizontal Illumination

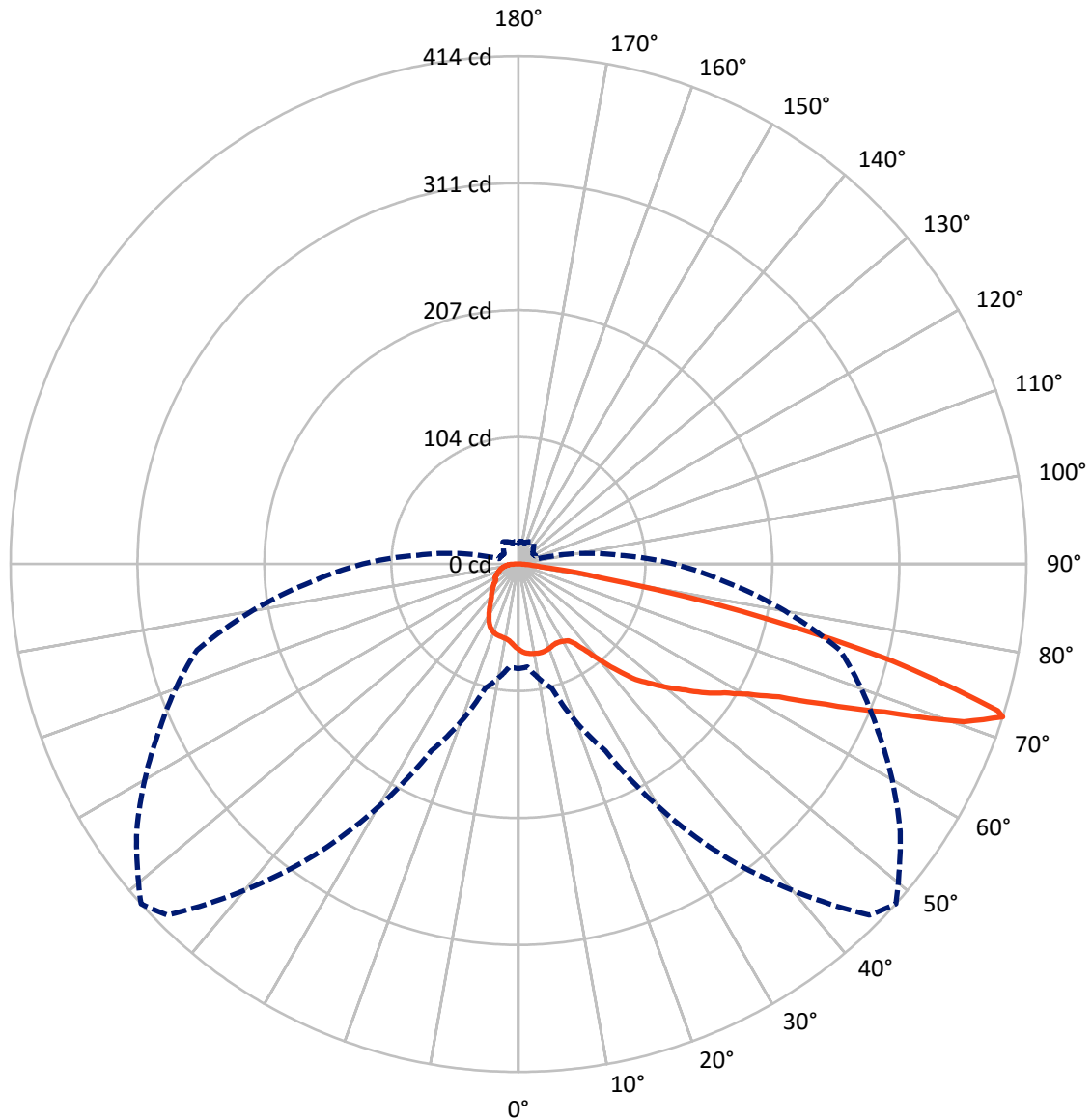
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Medium - Semi-Cutoff

REPORT NUMBER: P226651
CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

REPORT NUMBER: P226651

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| House Side | Lumens | 117.9 | 0.2 | 118.1 |
| | % Fixture | 21.7 | 0.0 | 21.8 |
| Street Side | Lumens | 424.5 | 0.1 | 424.5 |
| | % Fixture | 78.2 | 0.0 | 78.2 |
| Total | Lumens | 542.3 | 0.3 | 542.6 |
| | % Fixture | 99.9 | 0.1 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 6.6 | 1.2 |
| 10°-20° | 19.3 | 3.6 |
| 20°-30° | 29.7 | 5.5 |
| 30°-40° | 44.6 | 8.2 |
| 40°-50° | 74.2 | 13.7 |
| 50°-60° | 116.0 | 21.4 |
| 60°-70° | 153.2 | 28.2 |
| 70°-80° | 88.6 | 16.3 |
| 80°-90° | 10.2 | 1.9 |
| 90°-100° | 0.3 | 0.1 |
| 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°-90° | 542.3 | 99.9 |
| 0°-180° | 542.6 | 100.0 |



REPORT NUMBER: P226651

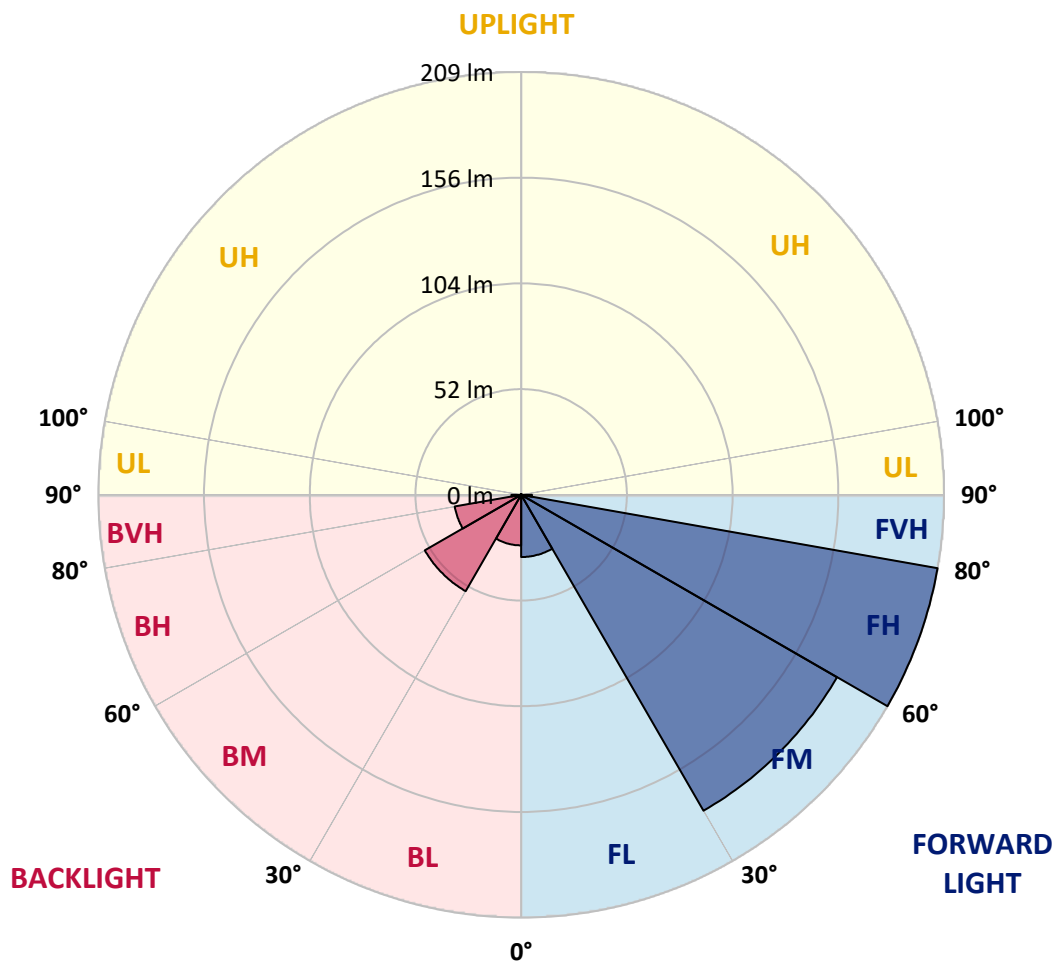
CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|-------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 30.7 | 5.7 | | | |
| FM | (30°-60°) | 179.9 | 33.2 | | | |
| FH | (60°-80°) | 208.5 | 38.4 | | | G0/660 |
| FVH | (80°-90°) | 5.3 | 1.0 | | | G0/10 |
| BL | (0°-30°) | 24.9 | 4.6 | B0/110 | | |
| BM | (30°-60°) | 54.8 | 10.1 | B0/220 | | |
| BH | (60°-80°) | 33.3 | 6.1 | B0/110 | | G0/110 |
| BVH | (80°-90°) | 4.8 | 0.9 | | | G0/10 |
| UL | (90°-100°) | 0.3 | 0.1 | | U1/10 | |
| UH | (100°-180°) | 0.2 | 0.0 | | U1/10 | |

BUG Rating: B0-U1-G0

Type IV Medium





REPORT NUMBER: P226651

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 |
| 2.5° | 73.5 | 73.4 | 73.4 | 72.8 | 72.6 | 72.2 | 71.9 | 71.4 | 70.9 | 70.4 | 69.7 |
| 5° | 77.0 | 77.3 | 77.0 | 76.0 | 74.8 | 73.6 | 73.1 | 72.0 | 70.5 | 69.2 | 67.9 |
| 7.5° | 80.4 | 80.5 | 79.6 | 78.1 | 76.3 | 74.3 | 73.7 | 72.2 | 70.5 | 68.7 | 66.9 |
| 10° | 82.9 | 83.0 | 81.7 | 79.5 | 77.0 | 74.8 | 74.1 | 72.6 | 70.6 | 68.6 | 66.3 |
| 12.5° | 84.3 | 84.4 | 82.5 | 80.2 | 77.3 | 75.1 | 74.5 | 72.9 | 70.8 | 68.2 | 65.7 |
| 15° | 84.1 | 84.3 | 82.7 | 80.2 | 77.1 | 75.2 | 74.4 | 73.0 | 70.4 | 67.8 | 65.2 |
| 17.5° | 82.5 | 82.8 | 81.5 | 78.8 | 76.3 | 74.8 | 73.9 | 72.6 | 70.0 | 67.3 | 64.4 |
| 20° | 79.4 | 79.8 | 79.3 | 76.6 | 74.9 | 73.7 | 73.1 | 71.9 | 69.4 | 66.7 | 63.7 |
| 22.5° | 75.9 | 76.3 | 76.2 | 74.0 | 73.2 | 72.6 | 72.0 | 71.1 | 68.9 | 66.2 | 63.4 |
| 25° | 73.4 | 73.7 | 73.5 | 71.6 | 71.9 | 71.9 | 71.5 | 70.8 | 68.9 | 66.3 | 63.4 |
| 27.5° | 77.6 | 77.6 | 75.6 | 71.7 | 71.3 | 72.0 | 71.9 | 71.5 | 69.9 | 67.1 | 64.0 |
| 30° | 92.9 | 91.7 | 88.0 | 78.3 | 73.3 | 73.0 | 73.0 | 72.7 | 71.3 | 68.9 | 66.0 |
| 32.5° | 109.9 | 108.8 | 104.4 | 92.2 | 81.9 | 75.2 | 74.5 | 74.5 | 74.1 | 71.9 | 68.9 |
| 35° | 125.1 | 125.0 | 121.5 | 108.4 | 95.2 | 82.6 | 79.8 | 77.9 | 77.8 | 76.8 | 74.5 |
| 37.5° | 137.4 | 137.4 | 137.7 | 122.8 | 109.6 | 94.5 | 89.7 | 83.7 | 83.7 | 83.2 | 81.8 |
| 40° | 151.4 | 152.1 | 152.8 | 135.8 | 125.1 | 108.7 | 103.3 | 94.2 | 91.5 | 92.3 | 92.6 |
| 42.5° | 169.8 | 170.6 | 170.2 | 152.0 | 139.1 | 125.6 | 118.9 | 108.0 | 101.2 | 102.6 | 105.9 |
| 45° | 182.3 | 182.6 | 186.0 | 168.8 | 156.9 | 139.9 | 134.3 | 119.2 | 112.5 | 115.5 | 121.3 |
| 47.5° | 196.4 | 197.1 | 197.7 | 187.9 | 177.6 | 156.1 | 145.8 | 130.2 | 125.8 | 130.3 | 139.5 |
| 50° | 210.1 | 209.1 | 210.6 | 210.2 | 197.3 | 170.5 | 158.2 | 140.4 | 140.7 | 146.7 | 161.8 |
| 52.5° | 222.1 | 218.6 | 222.1 | 226.4 | 222.6 | 185.3 | 170.9 | 152.4 | 157.0 | 164.3 | 188.2 |
| 55° | 231.3 | 223.0 | 228.8 | 241.1 | 240.2 | 198.4 | 185.5 | 168.5 | 176.1 | 186.1 | 220.2 |
| 57.5° | 212.5 | 213.5 | 229.6 | 250.9 | 250.5 | 211.6 | 198.2 | 188.6 | 197.9 | 209.1 | 258.1 |
| 60° | 194.9 | 199.5 | 224.3 | 252.5 | 257.7 | 226.0 | 215.4 | 211.4 | 220.0 | 233.7 | 294.5 |
| 62.5° | 185.7 | 190.0 | 215.7 | 249.6 | 269.1 | 247.4 | 238.5 | 235.4 | 247.2 | 262.5 | 326.9 |
| 65° | 188.6 | 191.2 | 215.2 | 254.0 | 282.2 | 279.6 | 275.8 | 270.7 | 276.6 | 290.9 | 341.6 |
| 67.5° | 180.4 | 184.8 | 210.6 | 261.8 | 306.2 | 319.0 | 322.2 | 316.7 | 311.7 | 309.8 | 320.2 |
| 70° | 134.3 | 138.5 | 165.6 | 229.6 | 325.9 | 387.3 | 385.3 | 366.9 | 333.5 | 305.7 | 250.2 |
| 72° | 85.3 | 84.1 | 104.8 | 168.2 | 289.7 | 404.8 | 414.1 | 380.0 | 323.6 | 271.4 | 169.9 |
| 72.5° | 62.0 | 67.6 | 87.0 | 149.5 | 275.2 | 395.2 | 408.8 | 375.8 | 310.6 | 256.4 | 149.5 |
| 75° | 15.1 | 16.0 | 20.9 | 53.6 | 161.2 | 297.4 | 314.4 | 290.3 | 226.7 | 152.2 | 66.3 |
| 77.5° | 10.2 | 10.6 | 13.8 | 18.9 | 47.4 | 169.6 | 186.6 | 160.3 | 101.4 | 51.8 | 29.5 |
| 80° | 7.6 | 7.9 | 10.0 | 13.4 | 19.7 | 57.8 | 68.2 | 54.2 | 25.3 | 28.7 | 21.0 |
| 82.5° | 5.4 | 5.5 | 7.6 | 9.8 | 13.1 | 13.5 | 18.0 | 19.9 | 16.4 | 18.8 | 12.3 |
| 85° | 3.7 | 3.7 | 5.5 | 6.8 | 8.3 | 6.7 | 7.2 | 10.0 | 11.1 | 11.2 | 7.5 |
| 87.5° | 2.0 | 2.2 | 3.2 | 4.3 | 4.3 | 3.1 | 3.4 | 5.1 | 6.2 | 6.7 | 4.5 |
| 90° | 0.7 | 0.7 | 1.3 | 1.7 | 1.0 | 0.8 | 0.7 | 1.0 | 1.5 | 2.1 | 1.4 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226651

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (continued):

| | 0° | 5° | 15° | 25° | 35° | 45° | 48° | 55° | 65° | 75° | 85° |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226651

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-------|-------|------|------|------|------|------|------|------|------|------|
| 0° | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 | 69.8 |
| 2.5° | 69.5 | 69.0 | 68.4 | 68.1 | 67.9 | 67.6 | 67.3 | 67.1 | 67.1 | 66.8 | 66.9 |
| 5° | 67.3 | 66.6 | 65.7 | 65.1 | 65.0 | 65.0 | 65.2 | 65.2 | 65.2 | 65.0 | 65.3 |
| 7.5° | 66.2 | 65.4 | 64.1 | 63.4 | 62.9 | 62.8 | 63.1 | 63.7 | 64.1 | 63.8 | 64.1 |
| 10° | 65.4 | 64.5 | 63.1 | 62.3 | 61.9 | 61.7 | 61.9 | 62.6 | 63.6 | 63.6 | 63.9 |
| 12.5° | 64.6 | 63.5 | 62.1 | 61.5 | 61.2 | 61.2 | 61.5 | 62.0 | 63.1 | 63.5 | 63.7 |
| 15° | 63.8 | 62.6 | 61.4 | 60.5 | 60.5 | 60.8 | 61.2 | 61.7 | 62.7 | 63.4 | 63.6 |
| 17.5° | 63.0 | 61.8 | 60.8 | 60.0 | 60.0 | 60.4 | 60.8 | 61.5 | 62.2 | 63.2 | 63.2 |
| 20° | 62.3 | 61.3 | 60.0 | 59.3 | 59.3 | 59.5 | 60.0 | 60.7 | 61.2 | 62.3 | 62.3 |
| 22.5° | 61.9 | 60.7 | 59.4 | 58.5 | 58.1 | 57.9 | 58.4 | 59.1 | 59.7 | 60.7 | 60.8 |
| 25° | 61.8 | 60.4 | 58.8 | 57.1 | 56.0 | 55.7 | 56.0 | 56.8 | 57.3 | 58.1 | 58.3 |
| 27.5° | 62.3 | 61.0 | 58.6 | 55.4 | 53.3 | 52.4 | 52.7 | 53.2 | 53.4 | 54.2 | 54.6 |
| 30° | 64.2 | 62.6 | 59.0 | 53.7 | 49.8 | 48.2 | 48.2 | 48.3 | 48.6 | 49.3 | 49.3 |
| 32.5° | 67.3 | 65.8 | 60.4 | 51.9 | 46.3 | 44.1 | 43.5 | 43.1 | 43.1 | 43.0 | 43.1 |
| 35° | 73.0 | 71.7 | 62.9 | 49.8 | 42.4 | 40.0 | 38.6 | 37.9 | 37.2 | 36.9 | 36.8 |
| 37.5° | 81.1 | 80.0 | 66.3 | 47.5 | 39.0 | 36.6 | 34.9 | 33.5 | 32.7 | 32.7 | 33.1 |
| 40° | 93.3 | 92.2 | 70.2 | 44.8 | 35.8 | 34.0 | 32.3 | 30.8 | 29.9 | 30.0 | 30.4 |
| 42.5° | 108.4 | 105.0 | 74.4 | 41.2 | 33.2 | 32.3 | 30.4 | 29.1 | 28.3 | 27.8 | 27.7 |
| 45° | 125.9 | 120.3 | 78.3 | 37.8 | 30.4 | 30.8 | 29.0 | 27.5 | 26.4 | 25.2 | 25.0 |
| 47.5° | 147.8 | 135.5 | 81.8 | 34.4 | 27.3 | 29.2 | 27.5 | 26.1 | 24.5 | 23.0 | 22.7 |
| 50° | 170.6 | 153.1 | 84.8 | 30.8 | 24.6 | 27.5 | 26.0 | 24.2 | 21.9 | 20.5 | 20.5 |
| 52.5° | 197.0 | 174.2 | 88.6 | 26.8 | 22.4 | 25.6 | 24.1 | 21.7 | 19.8 | 19.7 | 19.7 |
| 55° | 226.3 | 196.3 | 91.3 | 23.6 | 20.8 | 23.5 | 22.8 | 22.1 | 21.5 | 21.6 | 21.7 |
| 57.5° | 257.0 | 219.3 | 88.9 | 21.4 | 19.4 | 23.1 | 25.1 | 24.2 | 22.2 | 22.1 | 22.0 |
| 60° | 283.5 | 237.3 | 75.9 | 20.0 | 18.4 | 23.8 | 26.9 | 24.2 | 22.2 | 23.2 | 23.3 |
| 62.5° | 300.8 | 245.8 | 50.5 | 18.2 | 16.9 | 22.5 | 26.3 | 23.5 | 22.3 | 25.2 | 25.4 |
| 65° | 298.4 | 236.3 | 29.0 | 16.9 | 16.0 | 20.7 | 25.4 | 22.6 | 20.8 | 22.4 | 22.0 |
| 67.5° | 263.3 | 198.0 | 21.0 | 16.4 | 15.3 | 19.4 | 23.8 | 21.3 | 19.4 | 21.4 | 20.5 |
| 70° | 189.2 | 134.8 | 18.1 | 15.9 | 14.8 | 17.9 | 22.7 | 20.5 | 18.6 | 20.0 | 18.7 |
| 72° | 126.9 | 82.0 | 16.6 | 15.5 | 14.3 | 17.0 | 22.0 | 19.9 | 17.9 | 18.7 | 17.2 |
| 72.5° | 108.1 | 64.7 | 16.2 | 15.3 | 14.2 | 16.8 | 21.7 | 19.8 | 17.7 | 18.5 | 17.1 |
| 75° | 40.4 | 25.3 | 14.4 | 14.2 | 13.1 | 15.6 | 20.8 | 19.0 | 16.9 | 16.7 | 16.1 |
| 77.5° | 20.8 | 16.1 | 12.3 | 12.5 | 11.7 | 14.2 | 19.8 | 17.9 | 15.6 | 14.7 | 14.4 |
| 80° | 15.1 | 11.6 | 9.9 | 10.6 | 10.0 | 12.8 | 18.3 | 16.3 | 14.2 | 13.2 | 12.8 |
| 82.5° | 9.5 | 7.2 | 7.6 | 8.4 | 8.5 | 11.3 | 16.7 | 14.6 | 12.6 | 11.8 | 11.2 |
| 85° | 4.6 | 4.3 | 5.4 | 6.2 | 6.8 | 9.6 | 15.3 | 13.0 | 11.0 | 9.4 | 9.5 |
| 87.5° | 2.4 | 3.3 | 3.2 | 4.2 | 5.3 | 7.9 | 13.5 | 10.6 | 8.8 | 7.1 | 7.2 |
| 90° | 0.6 | 0.9 | 0.9 | 1.7 | 2.1 | 3.4 | 8.7 | 6.1 | 5.9 | 2.5 | 2.2 |
| 92.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 95° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 97.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 100° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 102.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 105° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 107.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



REPORT NUMBER: P226651

CATALOG NUMBER: ISW-AF-XXX-LED-E1-T4W-8030-XXB

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|--------|-----|-----|------|------|------|------|------|------|------|------|------|
| 110° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 112.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 115° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 117.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 120° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 122.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 125° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 127.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 130° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 132.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 135° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 137.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 140° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 142.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 145° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 147.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 150° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 152.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 155° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 157.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 160° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 162.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 165° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 167.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 170° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 172.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 175° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 177.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 180° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)