

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: P#

Luminaire Tested: **BRT6-A1-730-U-T3-XX-BK**

Issue Date: 1/14/2021

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2006-849-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/14/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: BRT6-A1-730-U-T3-XX-BK
Description: BOLLARD 6INCH ROUND BASE, 500LM, PATH ASYMMETRICAL, BLACK FINISH
Light Source: (8) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 488.8 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Circular (Dia: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B0 - U0 - G0

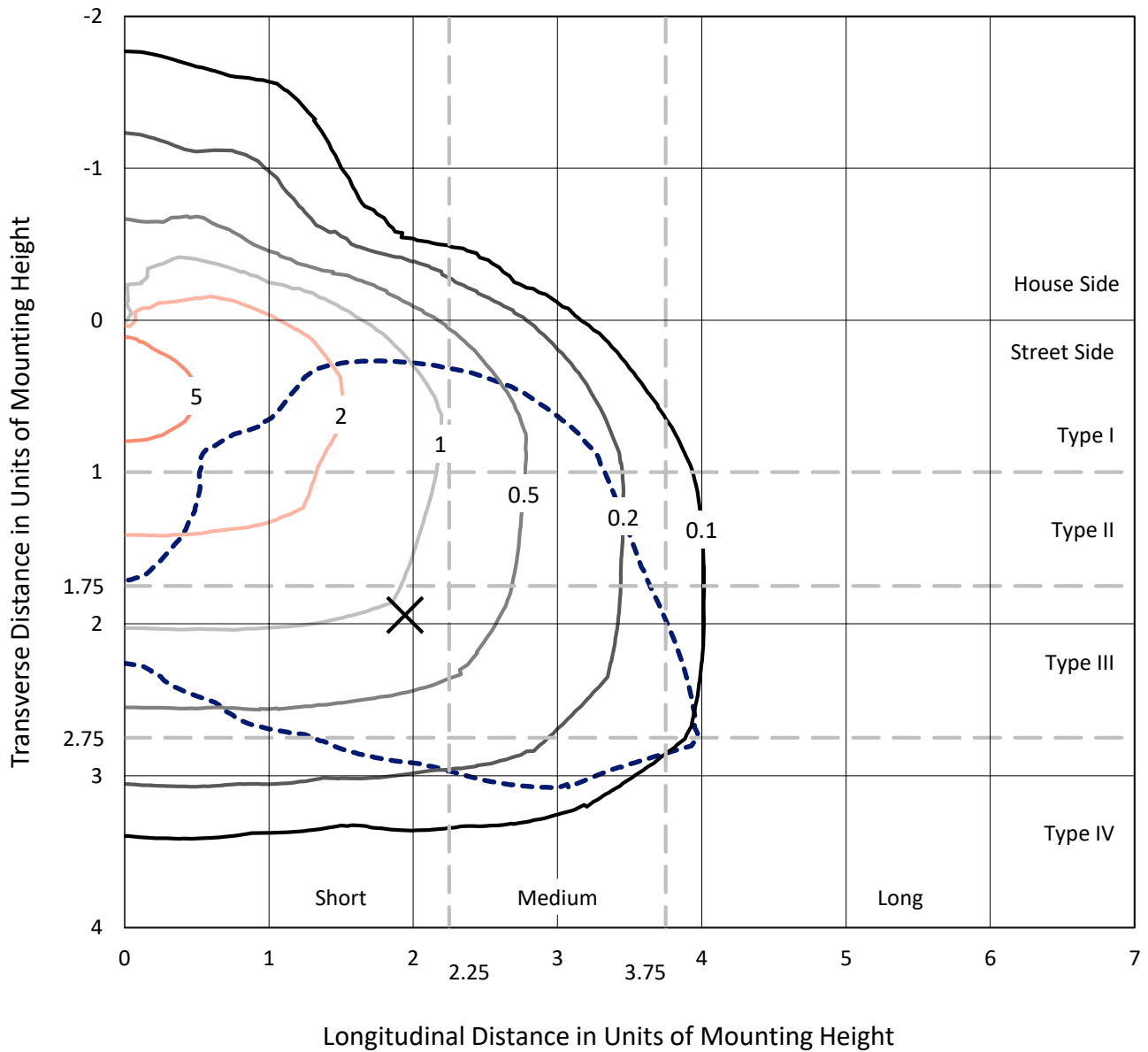
Input Watts (W): 5.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

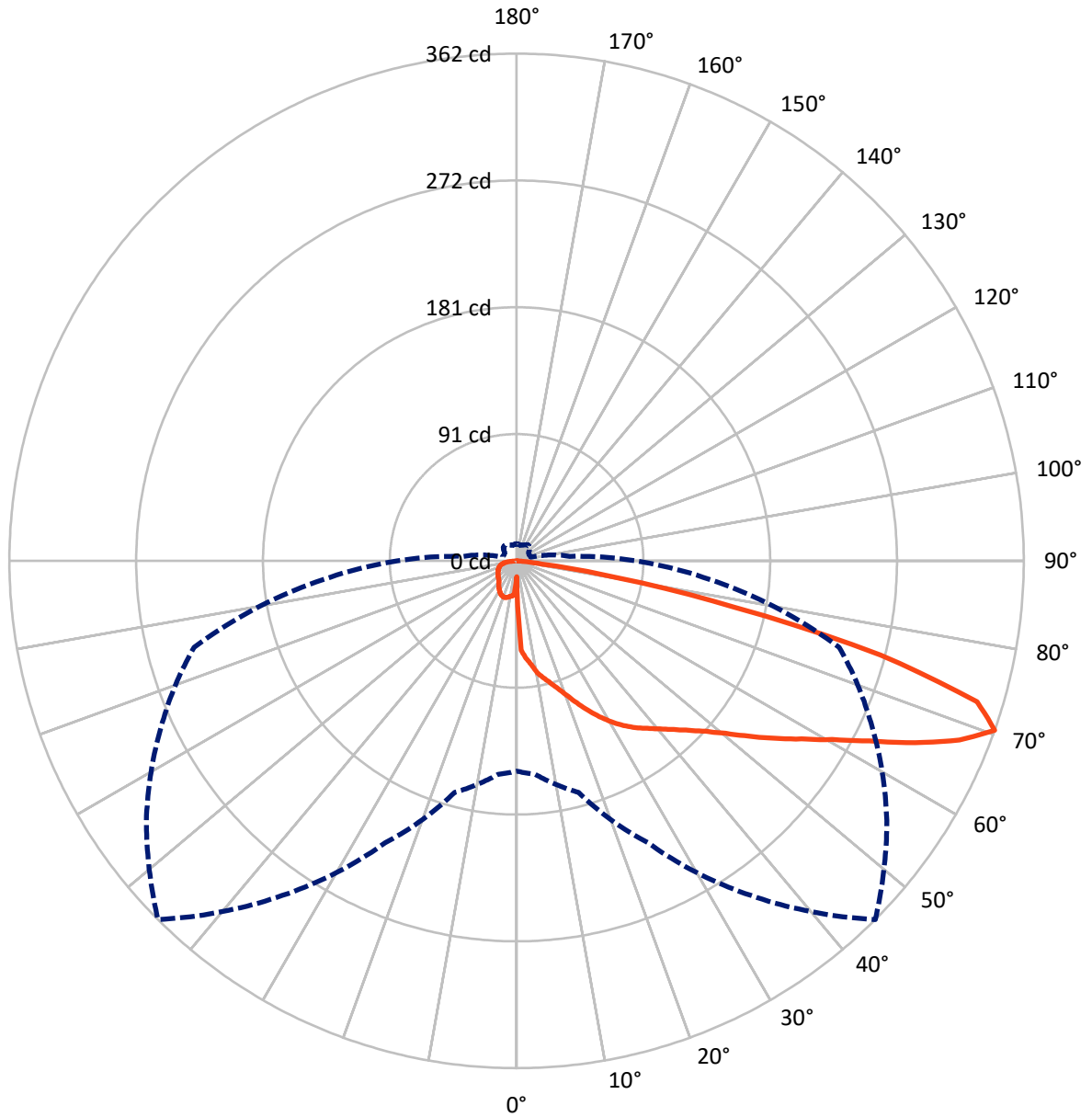
✕ Max cd
 - - - 1/2 Max cd



Based on 4 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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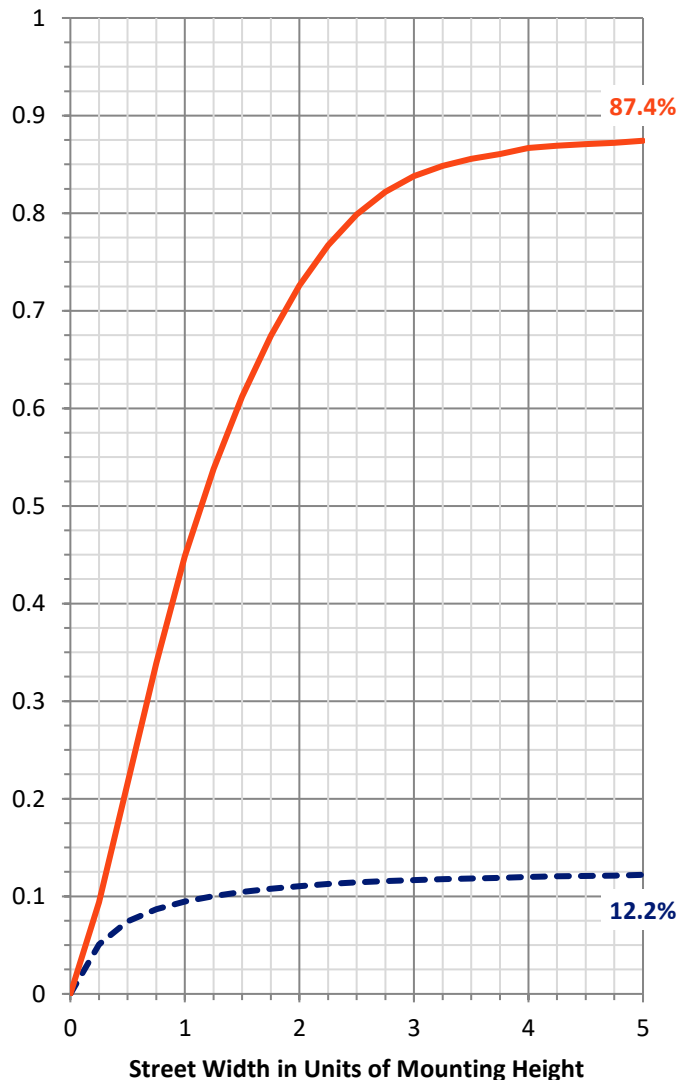
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|-------|
| House Side | Lumens | 60.8 | 0.0 | 60.8 |
| | % Fixture | 12.4 | 0.0 | 12.4 |
| Street Side | Lumens | 428.0 | 0.0 | 428.0 |
| | % Fixture | 87.6 | 0.0 | 87.6 |
| Total | Lumens | 488.8 | 0.0 | 488.8 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 4.5 | 0.9 |
| 10°-20° | 16.3 | 3.3 |
| 20°-30° | 32.3 | 6.6 |
| 30°-40° | 51.7 | 10.6 |
| 40°-50° | 71.9 | 14.7 |
| 50°-60° | 96.6 | 19.8 |
| 60°-70° | 125.9 | 25.8 |
| 70°-80° | 81.5 | 16.7 |
| 80°-90° | 8.1 | 1.7 |
| 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°-90° | 488.8 | 100.0 |
| 0°-180° | 488.8 | 100.0 |

Coefficient of Utilization



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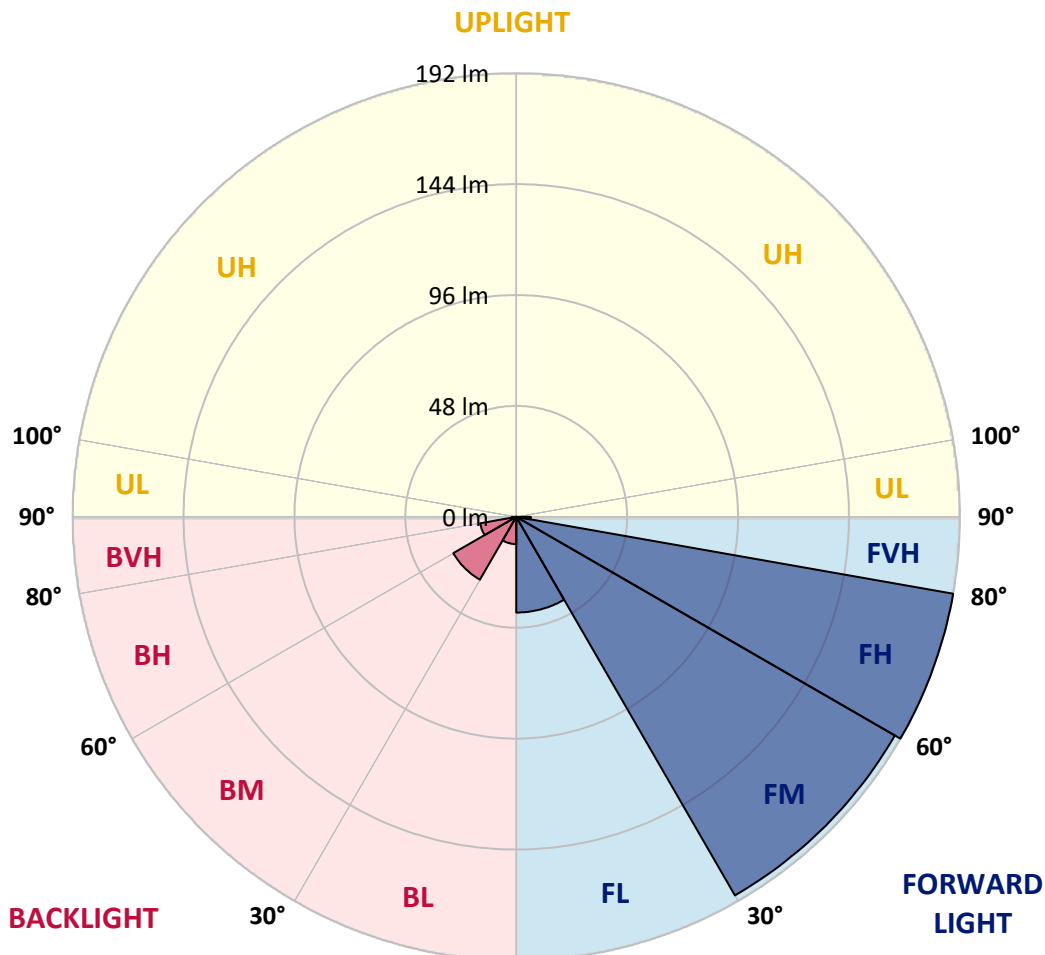
CATALOG NUMBER: BRT6-A1-730-U-T3-XX-BK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 41.3 | 8.5 | | | |
| FM (30°-60°) | 188.8 | 38.6 | | | |
| FH (60°-80°) | 191.6 | 39.2 | | | G0/660 |
| FVH (80°-90°) | 6.2 | 1.3 | | | G0/10 |
| BL (0°-30°) | 11.8 | 2.4 | B0/110 | | |
| BM (30°-60°) | 31.4 | 6.4 | B0/220 | | |
| BH (60°-80°) | 15.8 | 3.2 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.9 | 0.4 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B0-U0-G0

Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 2.5° | 76.1 | 76.4 | 76.4 | 74.7 | 66.8 | 63.8 | 57.5 | 52.3 | 46.8 | 41.3 | 38.9 |
| 5° | 81.8 | 81.8 | 81.8 | 81.0 | 78.8 | 69.8 | 66.0 | 58.3 | 53.4 | 46.8 | 45.4 |
| 7.5° | 87.3 | 87.6 | 87.3 | 86.5 | 85.1 | 74.5 | 71.2 | 61.3 | 57.2 | 48.4 | 46.8 |
| 10° | 92.2 | 92.5 | 92.5 | 91.7 | 90.6 | 81.3 | 75.5 | 64.3 | 60.2 | 49.8 | 47.9 |
| 12.5° | 97.7 | 98.0 | 97.7 | 96.9 | 95.3 | 85.7 | 79.4 | 69.8 | 62.7 | 51.2 | 49.0 |
| 15° | 104.3 | 104.6 | 104.8 | 102.9 | 101.0 | 90.3 | 83.8 | 73.1 | 65.1 | 53.1 | 50.1 |
| 17.5° | 111.7 | 111.7 | 111.7 | 110.6 | 107.8 | 95.8 | 87.9 | 76.6 | 68.2 | 55.3 | 51.2 |
| 20° | 119.6 | 119.9 | 119.6 | 118.8 | 115.2 | 102.4 | 92.8 | 80.5 | 71.2 | 57.8 | 52.6 |
| 22.5° | 126.7 | 127.6 | 127.8 | 126.5 | 123.4 | 110.0 | 98.8 | 84.6 | 74.7 | 60.5 | 54.2 |
| 25° | 134.9 | 135.2 | 134.9 | 134.1 | 130.8 | 118.0 | 104.6 | 89.2 | 78.6 | 63.5 | 56.4 |
| 27.5° | 142.1 | 142.6 | 142.3 | 141.0 | 138.8 | 125.9 | 110.9 | 94.7 | 82.7 | 66.8 | 59.4 |
| 30° | 150.0 | 149.7 | 148.9 | 148.4 | 146.4 | 133.3 | 117.7 | 100.5 | 87.3 | 70.9 | 63.8 |
| 32.5° | 156.0 | 156.0 | 154.9 | 154.4 | 152.5 | 140.1 | 123.7 | 105.9 | 92.5 | 76.9 | 69.3 |
| 35° | 161.5 | 161.8 | 160.7 | 159.6 | 157.9 | 146.2 | 129.2 | 111.4 | 98.5 | 84.0 | 75.5 |
| 37.5° | 166.7 | 167.0 | 166.7 | 164.8 | 163.1 | 151.6 | 134.9 | 117.7 | 105.1 | 91.7 | 81.3 |
| 40° | 170.3 | 170.8 | 171.9 | 169.2 | 167.8 | 157.7 | 141.5 | 126.2 | 114.1 | 99.9 | 86.8 |
| 42.5° | 169.2 | 169.7 | 173.3 | 173.3 | 172.7 | 164.5 | 149.2 | 136.0 | 123.7 | 108.4 | 92.0 |
| 45° | 165.9 | 167.0 | 173.0 | 176.0 | 177.9 | 172.4 | 157.9 | 147.8 | 134.9 | 117.2 | 97.2 |
| 47.5° | 162.0 | 162.6 | 170.5 | 176.3 | 183.7 | 181.7 | 168.1 | 159.6 | 148.9 | 125.6 | 101.8 |
| 50° | 159.6 | 160.7 | 168.9 | 177.4 | 189.7 | 193.5 | 179.3 | 173.3 | 162.9 | 133.6 | 105.7 |
| 52.5° | 161.8 | 163.4 | 170.5 | 180.9 | 197.1 | 207.8 | 191.6 | 187.2 | 177.4 | 139.9 | 109.2 |
| 55° | 166.4 | 167.0 | 175.7 | 188.0 | 207.8 | 223.6 | 204.7 | 203.6 | 191.9 | 145.3 | 111.7 |
| 57.5° | 172.2 | 172.7 | 183.7 | 197.1 | 220.6 | 239.8 | 219.5 | 219.8 | 206.1 | 150.0 | 113.6 |
| 60° | 180.1 | 181.5 | 193.0 | 209.9 | 235.9 | 258.9 | 236.2 | 237.3 | 219.5 | 153.0 | 114.4 |
| 62.5° | 185.6 | 187.8 | 200.9 | 223.6 | 254.3 | 282.8 | 255.1 | 252.6 | 232.1 | 154.7 | 113.6 |
| 65° | 183.4 | 184.2 | 202.3 | 233.8 | 273.4 | 312.9 | 278.4 | 266.6 | 242.0 | 153.6 | 110.0 |
| 67.5° | 173.8 | 175.5 | 193.8 | 236.5 | 288.5 | 341.1 | 303.0 | 277.5 | 247.4 | 148.1 | 101.0 |
| 70° | 150.0 | 153.0 | 171.1 | 222.0 | 291.5 | 362.1 | 322.7 | 280.0 | 238.4 | 133.6 | 85.1 |
| 72.5° | 90.1 | 96.3 | 113.9 | 156.3 | 248.3 | 343.8 | 318.1 | 252.6 | 201.7 | 103.5 | 57.2 |
| 75° | 45.7 | 47.1 | 52.8 | 78.0 | 153.3 | 268.2 | 272.1 | 197.6 | 147.5 | 60.2 | 32.3 |
| 77.5° | 21.3 | 21.6 | 24.9 | 35.0 | 76.1 | 159.9 | 205.6 | 144.8 | 93.9 | 30.9 | 17.2 |
| 80° | 11.8 | 12.6 | 13.4 | 17.2 | 23.5 | 73.4 | 129.5 | 87.9 | 53.4 | 13.7 | 7.7 |
| 82.5° | 7.9 | 7.9 | 8.2 | 8.8 | 11.2 | 17.8 | 43.5 | 33.9 | 20.5 | 5.5 | 3.8 |
| 85° | 3.0 | 3.3 | 3.6 | 3.8 | 4.4 | 4.7 | 4.9 | 4.7 | 3.3 | 1.9 | 1.4 |
| 87.5° | 1.4 | 1.4 | 1.4 | 1.6 | 1.4 | 1.4 | 1.4 | 1.1 | 1.1 | 0.8 | 0.5 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |



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CATALOG NUMBER: BRT6-A1-730-U-T3-XX-BK

CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|------|------|------|------|------|------|------|------|------|------|
| 0° | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 | 11.2 |
| 2.5° | 36.7 | 33.7 | 27.1 | 24.1 | 17.8 | 16.4 | 12.0 | 8.8 | 4.7 | 3.6 |
| 5° | 41.9 | 36.1 | 32.0 | 26.6 | 24.1 | 17.2 | 16.1 | 9.3 | 9.9 | 14.0 |
| 7.5° | 43.5 | 36.7 | 33.9 | 27.1 | 25.2 | 17.5 | 16.4 | 9.9 | 12.0 | 14.2 |
| 10° | 45.7 | 37.2 | 34.2 | 27.4 | 25.5 | 17.8 | 16.7 | 10.9 | 15.1 | 15.1 |
| 12.5° | 46.5 | 37.8 | 34.8 | 27.6 | 26.3 | 18.3 | 17.2 | 13.4 | 15.6 | 15.9 |
| 15° | 47.4 | 38.0 | 35.3 | 28.5 | 26.8 | 19.2 | 17.8 | 15.9 | 15.9 | 16.1 |
| 17.5° | 48.2 | 38.6 | 36.4 | 29.0 | 27.4 | 20.0 | 17.8 | 16.1 | 15.9 | 16.1 |
| 20° | 49.0 | 39.7 | 37.5 | 29.6 | 27.4 | 21.1 | 17.8 | 16.1 | 15.9 | 16.1 |
| 22.5° | 50.6 | 41.3 | 38.9 | 29.8 | 27.1 | 21.3 | 17.2 | 15.9 | 15.6 | 15.9 |
| 25° | 52.8 | 43.8 | 39.7 | 30.1 | 26.6 | 21.1 | 17.0 | 15.6 | 15.1 | 15.3 |
| 27.5° | 56.1 | 46.8 | 40.2 | 30.4 | 25.7 | 20.8 | 16.4 | 15.1 | 14.5 | 14.8 |
| 30° | 60.8 | 49.5 | 40.0 | 29.8 | 24.6 | 20.3 | 15.9 | 14.5 | 14.2 | 14.5 |
| 32.5° | 66.2 | 51.5 | 39.1 | 28.7 | 23.5 | 19.7 | 15.3 | 14.0 | 13.7 | 14.0 |
| 35° | 70.9 | 52.0 | 37.2 | 26.8 | 22.4 | 19.2 | 14.8 | 13.4 | 13.4 | 13.7 |
| 37.5° | 74.7 | 51.5 | 34.5 | 25.2 | 21.1 | 18.3 | 14.2 | 13.1 | 13.1 | 13.1 |
| 40° | 77.7 | 49.8 | 31.5 | 23.3 | 19.7 | 17.5 | 14.0 | 12.9 | 12.9 | 13.1 |
| 42.5° | 79.9 | 47.4 | 28.7 | 21.9 | 18.9 | 17.2 | 13.7 | 12.6 | 12.6 | 12.9 |
| 45° | 81.6 | 44.3 | 26.3 | 20.3 | 18.1 | 16.7 | 13.1 | 12.0 | 12.0 | 12.3 |
| 47.5° | 83.2 | 41.3 | 23.8 | 19.2 | 17.8 | 16.4 | 12.6 | 12.0 | 12.0 | 12.3 |
| 50° | 84.0 | 38.3 | 21.9 | 18.3 | 17.2 | 15.6 | 12.3 | 12.0 | 12.6 | 12.6 |
| 52.5° | 84.6 | 35.6 | 20.0 | 17.2 | 17.0 | 15.3 | 12.6 | 12.6 | 12.9 | 13.1 |
| 55° | 84.0 | 32.0 | 18.1 | 16.1 | 16.1 | 15.3 | 12.9 | 12.9 | 13.1 | 13.1 |
| 57.5° | 81.6 | 27.9 | 16.1 | 15.3 | 15.6 | 15.6 | 13.1 | 12.9 | 13.1 | 13.4 |
| 60° | 78.3 | 23.5 | 14.8 | 14.5 | 15.3 | 15.6 | 13.4 | 12.9 | 13.4 | 13.4 |
| 62.5° | 72.3 | 18.9 | 13.1 | 13.4 | 15.1 | 15.6 | 13.4 | 12.6 | 13.4 | 13.4 |
| 65° | 63.0 | 15.1 | 11.8 | 12.3 | 14.5 | 15.3 | 13.1 | 12.3 | 12.9 | 13.1 |
| 67.5° | 51.5 | 12.6 | 10.7 | 11.2 | 14.0 | 15.1 | 12.9 | 12.0 | 12.3 | 12.9 |
| 70° | 38.0 | 10.7 | 9.9 | 10.4 | 13.4 | 14.0 | 12.6 | 11.5 | 12.0 | 12.3 |
| 72.5° | 24.9 | 9.0 | 8.8 | 9.6 | 12.9 | 12.9 | 12.0 | 10.9 | 11.5 | 12.0 |
| 75° | 14.5 | 7.1 | 7.1 | 8.5 | 12.0 | 11.8 | 11.5 | 9.3 | 10.1 | 11.2 |
| 77.5° | 9.0 | 5.5 | 6.0 | 7.1 | 11.2 | 10.9 | 10.7 | 7.9 | 8.8 | 10.4 |
| 80° | 4.4 | 4.1 | 4.4 | 6.0 | 9.6 | 9.6 | 9.9 | 6.8 | 7.7 | 9.6 |
| 82.5° | 2.5 | 2.5 | 3.0 | 4.1 | 8.5 | 8.2 | 8.5 | 5.7 | 6.6 | 8.5 |
| 85° | 1.4 | 1.6 | 1.6 | 2.7 | 5.7 | 5.2 | 7.1 | 4.1 | 4.9 | 6.6 |
| 87.5° | 0.5 | 0.5 | 0.3 | 0.3 | 0.8 | 0.3 | 0.8 | 0.5 | 1.6 | 2.2 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Report Generated By E9970913

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
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Scaled Data Report





— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



--- HS — SS



0°

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report





(END OF REPORT)