

# SCOUT LIGHTING

## TEST REPORT

### SCOPE OF WORK

LED Performance Testing

### MODEL NUMBER

SS-O-ASYM25-M-30-M-EF-0-N-N-12

### PROJECT NUMBER

G105054548

### REPORT NUMBER

105054548CRT-005

### ISSUE DATE

5/19/2022

### REVISED DATE

None

### TEST DATES

5/11/2022

### DOCUMENT CONTROL NUMBER

RTTDS-R-AMER-Test-3407

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**REPORT NUMBER**

105054548CRT-005

**MODEL NUMBER(s)**

SS-O-ASYM25-M-30-M-EF-0-N-N-12

**REPORT RENDERED TO:**

SCOUT LIGHTING  
221 WEST 21ST, UNIT 1B  
NEW YORK, NY 10011  
USA

**STATEMENT OF LIMITATION**

NVLAP Lab Code 100402-0. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

**AUTHORIZATION**

The testing performed was authorized by signed quote number Qu-01263221-1.

**TEST STANDARDS**

ANSI/IES LM-79-19: Optical and Electrical Measurements of Solid State Lighting Products

IES LM-79-08: Electrical and Photometric Measurements of Solid State Lighting

In Charge of Testing:



Gerald Gray  
Associate Engineer  
Lighting Division

Reviewer:



Melanie Brittain  
Senior Associate Engineer  
Lighting Division

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# SAMPLE INFORMATION

**REPORT NO. 105054548CRT-005**

## ITEMS RECEIVED

| Item No. | Control No.         | Model No.                      | Description  | Type       | Received  |
|----------|---------------------|--------------------------------|--|------------|-----------|
| 1        | CRT2204251036-001-4 | SS-O-ASYM25-M-30-M-EF-0-N-N-12 | Scout Optic - Linear<br>Extruded Optic -<br>Asymmetrical Throw | Production | 4/25/2022 |

## TESTED SAMPLE CONFIGURATIONS

| Config No. | Tested Model No.               | Item Nos. Utilized |
|------------|--------------------------------|--------------------|
| 1          | SS-O-ASYM25-M-30-M-EF-0-N-N-12 | 1                  |

## SAMPLE PHOTOS - TESTED CONFIGURATIONS



**SUMMARY**

**REPORT NO. 105054548CRT-005**

**PRODUCT INFORMATION AND SUMMARY OF DATA**

|                      |  |
|----------------------|--|
| Product Model No.:   | SS-O-ASYM25-M-30-M-EF-0-N-N-12                           |
| Product Description: | Scout Optic - Linear Extruded Optic - Asymmetrical Throw |
| LED Model No.:       | CREE 2835 18V  |
| Driver Model No.:    | Advance XI013C036V054DNM1                                |
| Light Source:        | LED  |

| Criteria                           | Results |
|------------------------------------|---------|
| Light Output (lumens)              | 566.9   |
| Input Power (W) @ 120 (Vac)        | 6.60    |
| Lumen Efficacy (lm/W)              | 85.9    |
| Input Power Factor ( ) @ 120 (Vac) | 0.973   |

**TEST METHODS**

**SEASONING IN SAMPLE ORIENTATION - LED PRODUCTS**

No seasoning was performed in accordance with IESNA LM-79.

**TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING**

A Type C Mirror Goniophotometer system was used to measure the luminous intensity (candela) at each angle of distribution for the EUT. Electrical measurements of the unit were measured using a power analyzer. Each EUT was operated at the rated input voltage of the system in its designated orientation. The ambient temperature was measured at a position near the EUT at equal height and stabilization procedures to LM-79 were followed.

**TYPE C GONIOPHOTOMETER DISTRIBUTION TESTING**

**REPORT NO. 105054548CRT-005**

| Test Configuration | Tested Model No.               | Pass/Fail/NA |
|--------------------|--------------------------------|--------------|
| 1                  | SS-O-ASYM25-M-30-M-EF-0-N-N-12 | NA           |

**PHOTOMETRIC AND ELECTRICAL MEASUREMENTS (25°C +/- 1°C)**

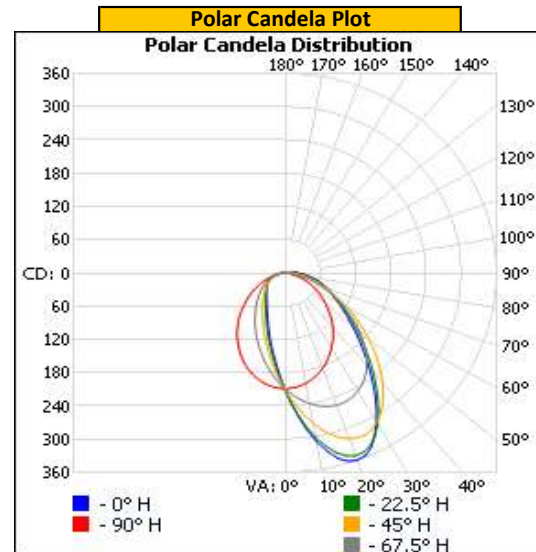
| Base Orientation | Input Voltage (Vac) | Input Current (mA) | Input Power (W) | Input Power Factor ( ) |
|------------------|---------------------|--------------------|-----------------|------------------------|
| Up               | 120.01              | 56.5               | 6.60            | 0.973                  |

| Light Output (lm) | Lumen Efficacy (lm/W) |
|-------------------|-----------------------|
| 566.9             | 85.9                  |

**INTENSITY SUMMARY - CANDELA**

| Angle | 0   | 22.5 | 45  | 67.5 | 90  |
|-------|-----|------|-----|------|-----|
| 0     | 211 | 211  | 211 | 211  | 211 |
| 5     | 260 | 258  | 244 | 226  | 207 |
| 10    | 309 | 302  | 276 | 239  | 202 |
| 15    | 347 | 336  | 302 | 249  | 194 |
| 20    | 359 | 351  | 318 | 254  | 184 |
| 25    | 347 | 343  | 322 | 253  | 172 |
| 30    | 311 | 315  | 312 | 247  | 157 |
| 35    | 267 | 275  | 290 | 235  | 142 |
| 40    | 222 | 233  | 258 | 216  | 126 |
| 45    | 183 | 193  | 222 | 193  | 110 |
| 50    | 151 | 159  | 186 | 166  | 92  |
| 55    | 125 | 131  | 152 | 138  | 76  |
| 60    | 104 | 108  | 121 | 111  | 62  |
| 65    | 87  | 86   | 93  | 84   | 47  |
| 70    | 74  | 71   | 69  | 60   | 34  |
| 75    | 60  | 56   | 49  | 40   | 21  |
| 80    | 46  | 42   | 32  | 22   | 10  |
| 85    | 32  | 29   | 19  | 9    | 2   |
| 90    | 22  | 20   | 11  | 2    | 0   |
| 95    | 15  | 14   | 9   | 1    | 0   |
| 100   | 11  | 10   | 6   | 0    | 0   |
| 105   | 8   | 7    | 4   | 0    | 0   |
| 110   | 5   | 5    | 2   | 0    | 0   |
| 115   | 4   | 3    | 2   | 0    | 0   |
| 120   | 2   | 2    | 2   | 0    | 0   |
| 125   | 2   | 2    | 2   | 0    | 0   |
| 130   | 2   | 2    | 2   | 0    | 0   |
| 135   | 2   | 2    | 2   | 0    | 0   |
| 140   | 2   | 2    | 2   | 0    | 0   |
| 145   | 2   | 2    | 1   | 0    | 0   |
| 150   | 2   | 2    | 0   | 0    | 0   |
| 155   | 1   | 0    | 0   | 0    | 0   |
| 160   | 0   | 0    | 0   | 0    | 0   |
| 165   | 0   | 0    | 0   | 0    | 0   |
| 170   | 0   | 0    | 0   | 0    | 0   |
| 175   | 0   | 0    | 0   | 0    | 0   |
| 180   | 0   | 0    | 0   | 0    | 0   |

Entire luminous intensity matrix found in .IES file



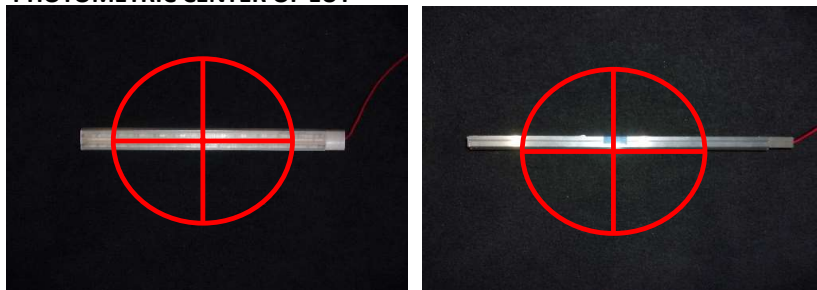
**REPORT NO. 105054548CRT-005**

**ORIENTATION AND ALIGNMENT OF EUT**

| Luminous Opening |            |             |
|------------------|------------|-------------|
| Length (ft)      | Width (ft) | Height (ft) |
| 0.08             | 1.00       | 0.00        |
| 0°-180° H        | 90°-270° H | 0°-180° V   |

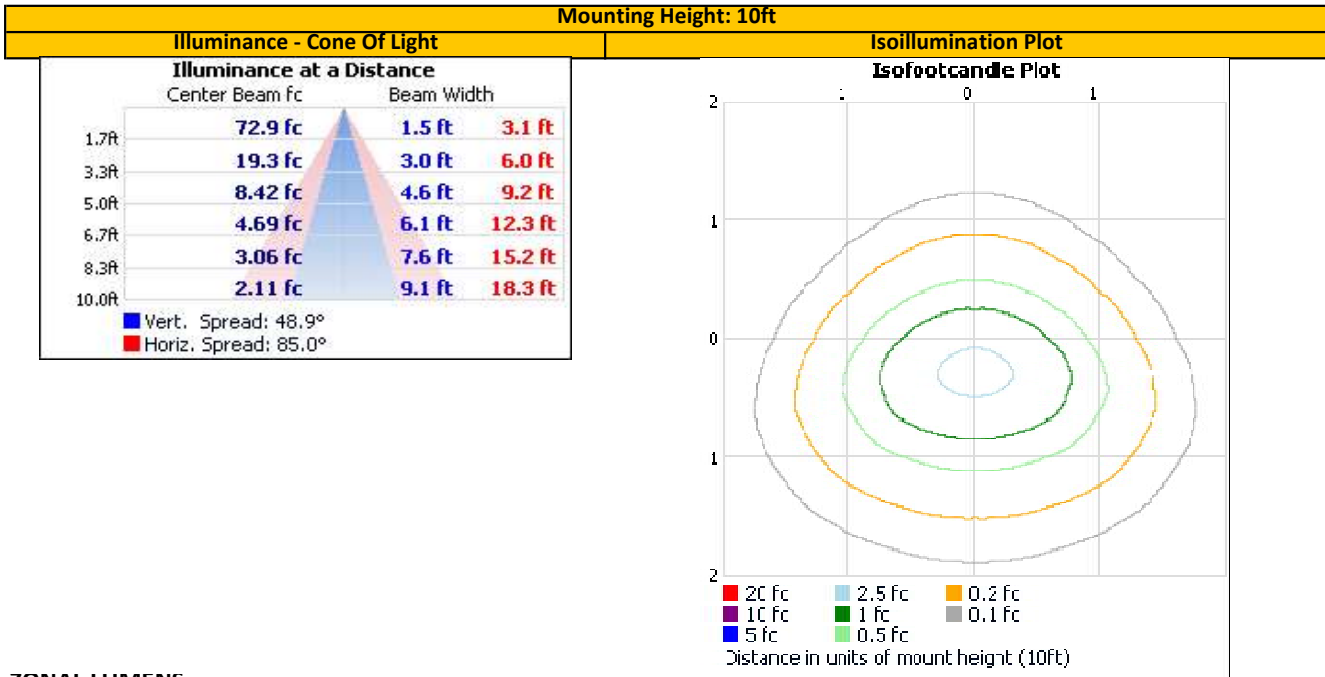
| Test Distance (ft) |
|--------------------|
| 29.6               |

**PHOTOMETRIC CENTER OF EUT**



REPORT NO. 105054548CRT-005

## ILLUMINANCE SUMMARY



## ZONAL LUMENS

| Zonal Lumen Summary   |        |           |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
|---|--------|-----------|---------|--------|-----------|------|-------|-------|------|-------|-------|------|-------|-------|-------|-------|-------|--------|------|------|--------|------|------|------|-------|-------|--------|------|------|-------|-------|--------|---|--|--|--|--|--|--|------|--------|-------|------|--------|-------|------|------|------|--------|-----|------|-------|------|-------|---------|-----|------|-------|------|-------|---------|-----|------|-------|-------|-------|---------|-----|------|-------|------|-------|---------|-----|------|-------|------|-------|---------|-----|------|-------|------|-------|---------|-----|------|-------|------|------|---------|-----|------|-------|------|------|---------|-----|------|
| <table><tr><th>Zone</th><th>Lumens</th><th>Luminaire</th></tr><tr><td>0-30</td><td>171.2</td><td>30.2%</td></tr><tr><td>0-40</td><td>273.7</td><td>48.3%</td></tr><tr><td>0-60</td><td>448.2</td><td>79.1%</td></tr><tr><td>60-90</td><td>105.9</td><td>18.7%</td></tr><tr><td>70-100</td><td>55.1</td><td>9.7%</td></tr><tr><td>90-120</td><td>10.7</td><td>1.9%</td></tr><tr><td>0-90</td><td>554.1</td><td>97.7%</td></tr><tr><td>90-180</td><td>12.8</td><td>2.3%</td></tr><tr><td>0-180</td><td>566.9</td><td>100.0%</td></tr></table> |        |           | Zone    | Lumens | Luminaire | 0-30 | 171.2 | 30.2% | 0-40 | 273.7 | 48.3% | 0-60 | 448.2 | 79.1% | 60-90 | 105.9 | 18.7% | 70-100 | 55.1 | 9.7% | 90-120 | 10.7 | 1.9% | 0-90 | 554.1 | 97.7% | 90-180 | 12.8 | 2.3% | 0-180 | 566.9 | 100.0% | <table><tr><th>Zone</th><th>Lumens</th><th>Total</th><th>Zone</th><th>Lumens</th><th>Total</th></tr><tr><td>0-10</td><td>20.2</td><td>3.6%</td><td>90-100</td><td>6.0</td><td>1.1%</td></tr><tr><td>10-20</td><td>60.0</td><td>10.6%</td><td>100-110</td><td>3.1</td><td>0.6%</td></tr><tr><td>20-30</td><td>90.9</td><td>16.0%</td><td>110-120</td><td>1.6</td><td>0.3%</td></tr><tr><td>30-40</td><td>102.6</td><td>18.1%</td><td>120-130</td><td>1.0</td><td>0.2%</td></tr><tr><td>40-50</td><td>95.9</td><td>16.9%</td><td>130-140</td><td>0.7</td><td>0.1%</td></tr><tr><td>50-60</td><td>78.5</td><td>13.9%</td><td>140-150</td><td>0.4</td><td>0.1%</td></tr><tr><td>60-70</td><td>56.8</td><td>10.0%</td><td>150-160</td><td>0.1</td><td>0.0%</td></tr><tr><td>70-80</td><td>34.5</td><td>6.1%</td><td>160-170</td><td>0.0</td><td>0.0%</td></tr><tr><td>80-90</td><td>14.6</td><td>2.6%</td><td>170-180</td><td>0.0</td><td>0.0%</td></tr></table> |  |  |  |  |  |  | Zone | Lumens | Total | Zone | Lumens | Total | 0-10 | 20.2 | 3.6% | 90-100 | 6.0 | 1.1% | 10-20 | 60.0 | 10.6% | 100-110 | 3.1 | 0.6% | 20-30 | 90.9 | 16.0% | 110-120 | 1.6 | 0.3% | 30-40 | 102.6 | 18.1% | 120-130 | 1.0 | 0.2% | 40-50 | 95.9 | 16.9% | 130-140 | 0.7 | 0.1% | 50-60 | 78.5 | 13.9% | 140-150 | 0.4 | 0.1% | 60-70 | 56.8 | 10.0% | 150-160 | 0.1 | 0.0% | 70-80 | 34.5 | 6.1% | 160-170 | 0.0 | 0.0% | 80-90 | 14.6 | 2.6% | 170-180 | 0.0 | 0.0% |
| Zone  | Lumens | Luminaire |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 0-30  | 171.2  | 30.2%     |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 0-40  | 273.7  | 48.3%     |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 0-60  | 448.2  | 79.1%     |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 60-90   | 105.9  | 18.7%     |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 70-100  | 55.1   | 9.7%      |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 90-120  | 10.7   | 1.9%      |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 0-90  | 554.1  | 97.7%     |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 90-180  | 12.8   | 2.3%      |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 0-180   | 566.9  | 100.0%    |         |        |           |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| Zone  | Lumens | Total     | Zone    | Lumens | Total     |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 0-10  | 20.2   | 3.6%      | 90-100  | 6.0    | 1.1%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 10-20   | 60.0   | 10.6%     | 100-110 | 3.1    | 0.6%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 20-30   | 90.9   | 16.0%     | 110-120 | 1.6    | 0.3%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 30-40   | 102.6  | 18.1%     | 120-130 | 1.0    | 0.2%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 40-50   | 95.9   | 16.9%     | 130-140 | 0.7    | 0.1%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 50-60   | 78.5   | 13.9%     | 140-150 | 0.4    | 0.1%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 60-70   | 56.8   | 10.0%     | 150-160 | 0.1    | 0.0%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 70-80   | 34.5   | 6.1%      | 160-170 | 0.0    | 0.0%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |
| 80-90   | 14.6   | 2.6%      | 170-180 | 0.0    | 0.0%      |      |       |       |      |       |       |      |       |       |       |       |       |        |      |      |        |      |      |      |       |       |        |      |      |       |       |        |   |  |  |  |  |  |  |      |        |       |      |        |       |      |      |      |        |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |       |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |       |         |     |      |       |      |      |         |     |      |       |      |      |         |     |      |

**EQUIPMENT LIST**

**REPORT NO. 105054548CRT-005**

| # | Equipment                             | Model No   | Control No. | Last Cal  | Cal Due   |
|---|---------------------------------------|------------|-------------|-----------|-----------|
| 1 | LSI High Speed Mirror Goniophotometer | 6440       | ---         | 4/4/2022  | 7/4/2022  |
| 2 | Elgar AC Power Supply                 | CW1251     | ---         | VBV       | VBV       |
| 3 | Yokogawa Power Analyzer               | WT1600     | 307-E537    | 3/10/2022 | 3/10/2023 |
| 4 | Traceable Hygrothermometer            | 4800       | L204        | 2/21/2022 | 2/21/2023 |
| 5 | Sorenson DC Power Supply              | XG 150-10  | ---         | VBV       | VBV       |
| 6 | Omega Thermometer                     | DPi8-C24   | M263        | 3/1/2022  | 3/1/2023  |
| 7 | Bosch Distance Laser                  | Pro GLM 20 | L210        | 3/21/2022 | 3/15/2023 |
| 8 | M-D Building Products Digital Level   | Smart Tool | L112        | 5/26/2021 | 5/26/2022 |
| 9 | Tape Measure                          | Crescent   | ---         | 9/21/2021 | 9/21/2024 |

**REVISION HISTORY**

| #   | Revision Date | Updated By | Reviewed By | Description of Change |
|-----|---------------|------------|-------------|-----------------------|
| --- | None          | ---        | ---         | ---                   |
| --- | ---           | ---        | ---         | ---                   |
| --- | ---           | ---        | ---         | ---                   |