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|-----------------------------------------------------------------------------------|-----------------------|------------------|-------|-----------|------------------|-----|
|  | Doc or ECO #:         | ECO-LT-001-4-001 | Date: | 7/8/2021  | Author:          | JV  |
|                                                                                   | Rev. #:               | 001              |       |           |                  |     |
| Engineering Change Order (ECO)                                                    | Engineering Approval: | aeg              | Date: | 7/26/2021 | Quality Approval | aeg |

|               |                                                  |                        |              |
|---------------|--------------------------------------------------|------------------------|--------------|
| <b>P/N #:</b> | LT-001-4                                         | <b>Effective Date:</b> | July 8, 2021 |
| <b>Title:</b> | Correct reverse engineering drawing for LT-001-4 |                        |              |

## 1.0 Purpose / Summary

A reverse engineered drawing for the PRO4 light dome was corrected.

The first article of LT-001-4 from a new supplier was not fitting into the assembly, it was found that the shop had made it correct to print but the ME drawing for LT-001-4 was incorrect. This drawing was a reverse engineered drawing and had not been manufactured against.

A known good LT-001-4 was thoroughly inspected, and the 3D model and drawing were updated to suite.

## 2.0 Parts Affected

| Part Number | Notes                    | Removed                  | Added                    | Modified                            | REV |
|-------------|--------------------------|--------------------------|--------------------------|-------------------------------------|-----|
| LT-001-4    | Previous rev was 3.00.00 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | A   |

## 3.0 Detail

The highlighted areas of the drawing below show the changed dimensions. The 2.050 bore was only 2.00" before this change. This caused an assembly conflict with the mating part VR-PRO4-05 LED assembly.

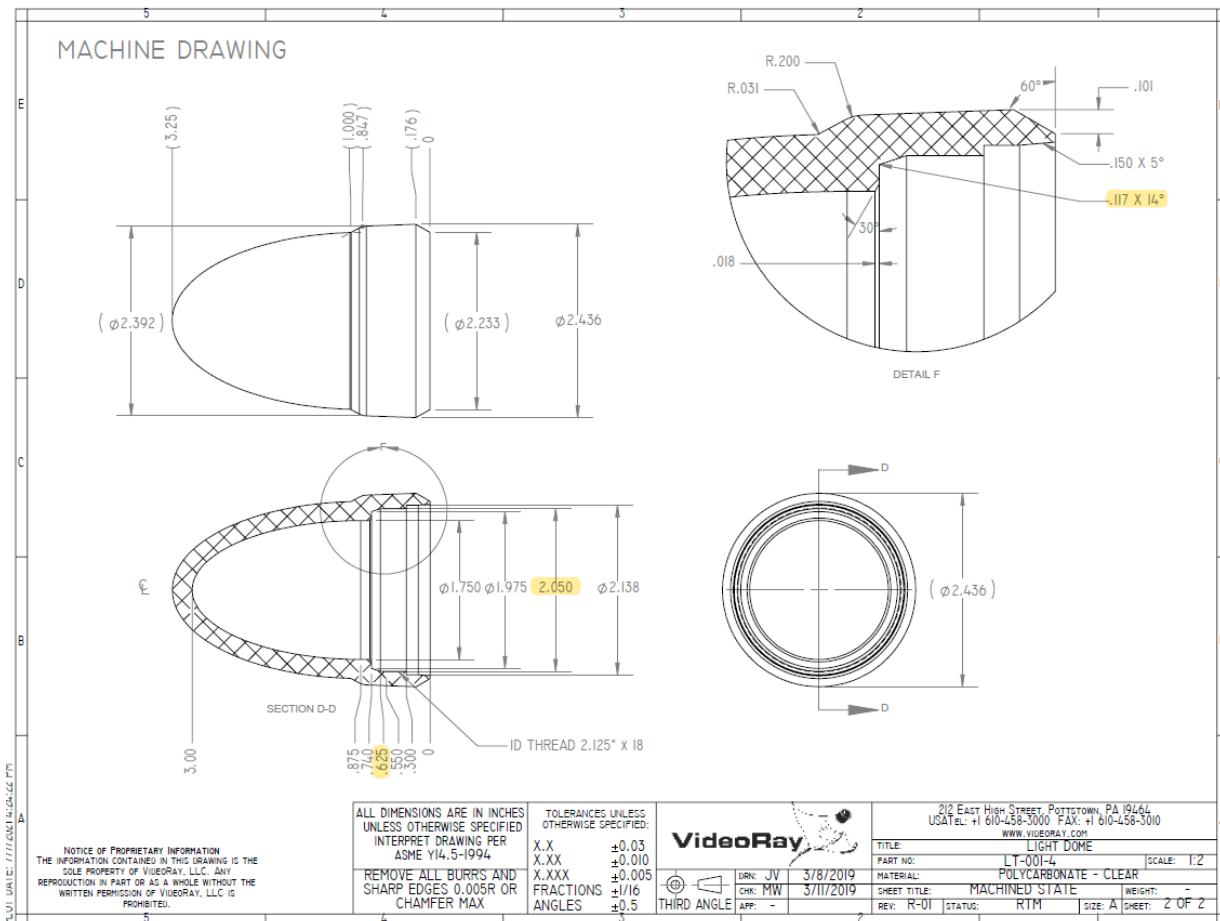
In order to measure the proper interior, the last known good first article part from the previous supplier was selected and cut in half. This allowed an easy to see cross section view of the assembly.

One half was kept as a perfect half to be measured for the bore diameter using calipers. The other was sliced so that I could project it on the optical comparator and get the angle from it.

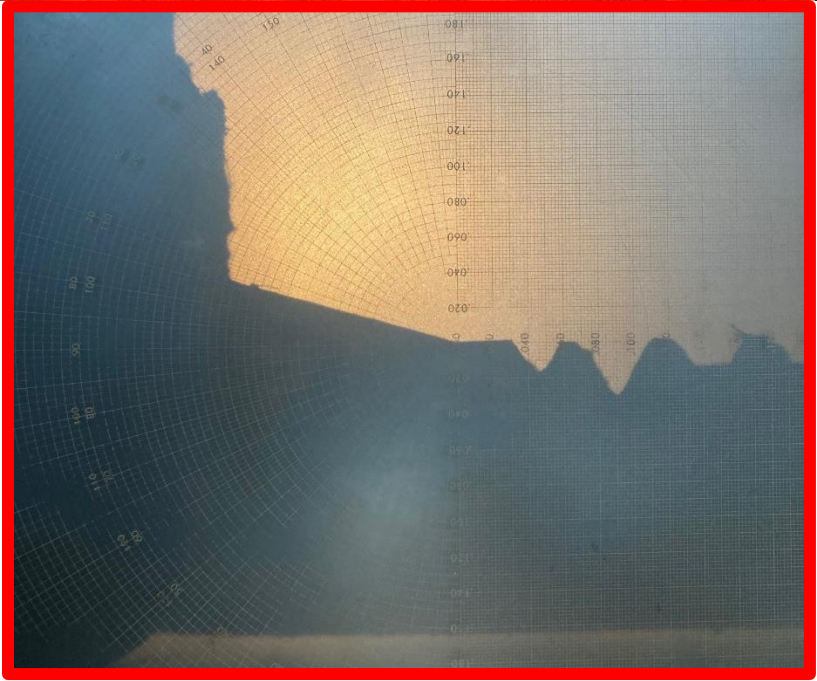
The error and modification was discussed with the new machine shop

|                                                                                   |                       |                  |       |           |                  |     |
|-----------------------------------------------------------------------------------|-----------------------|------------------|-------|-----------|------------------|-----|
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The rev was from R to R-01, the rev was moved to A in Epicor under the expectation that we will soon have a passing first article.



|                                                                                   |                       |                  |       |           |                  |     |
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#### 4.0 Disposition of Material

This was caught before bad material arrived. Old stock should be kept on top when this new stock arrived. Old stock should be used first.

#### 5.0 Action Items

| Action                                        | Department | Acknowledgement Initials |
|-----------------------------------------------|------------|--------------------------|
| Work with supplier to get 2nd FA              | Purchasing | RM                       |
| FA report for 2 <sup>nd</sup> FA upon arrival | ENGR       | JV                       |

#### 6.0 Modified / Referenced Documents:

| Document         | Current Revision |
|------------------|------------------|
| LT-001-4 drawing | A                |

#### 7.0 Revision History

| Date Revised (mm-dd-yyyy) | Location of Change (section, paragraph no., step no., etc.) | Description of Change Made | Name of Person making the Change |
|---------------------------|-------------------------------------------------------------|----------------------------|----------------------------------|
| 07-08-2021                |                                                             | Initial creation           | JV                               |
|                           |                                                             |                            |                                  |
|                           |                                                             |                            |                                  |