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|----------------------------------------------------------------------------------|---------------------------------------------------------|----------------------|
|  | <b>SURFACE<br/>VEHICLE<br/>RECOMMENDED<br/>PRACTICE</b> |                      |
|                                                                                  | <b>SAE</b>                                              | <b>J3003 SEP2012</b> |
|                                                                                  | Issued<br>Revised                                       | 2012-02<br>2012-09   |
| Supersedes J3003 FEB2012                                                         |                                                         |                      |
| Dimensional Specifications for General Service Sealed Lighting Units             |                                                         |                      |

## RATIONALE

This document has been issued to replace SAE J760 which had been cancelled and due to the continued usage of these popular sealed units.

### 1. SCOPE

This SAE Recommended Practice provides dimensional specifications for the 114mm (4½ inch) and 146mm (5¾ inch) general service sealed lighting units, intended for use in such applications as motorcycle headlamps, military headlamps, industrial machinery headlamps, fog lamps, spot lamps, etc. See Figures 1 and 2 and Tables 1 and 2.

### 2. REFERENCES

There are no referenced publications specified herein.

### 3. NOTES

#### 3.1 Marginal Indicia

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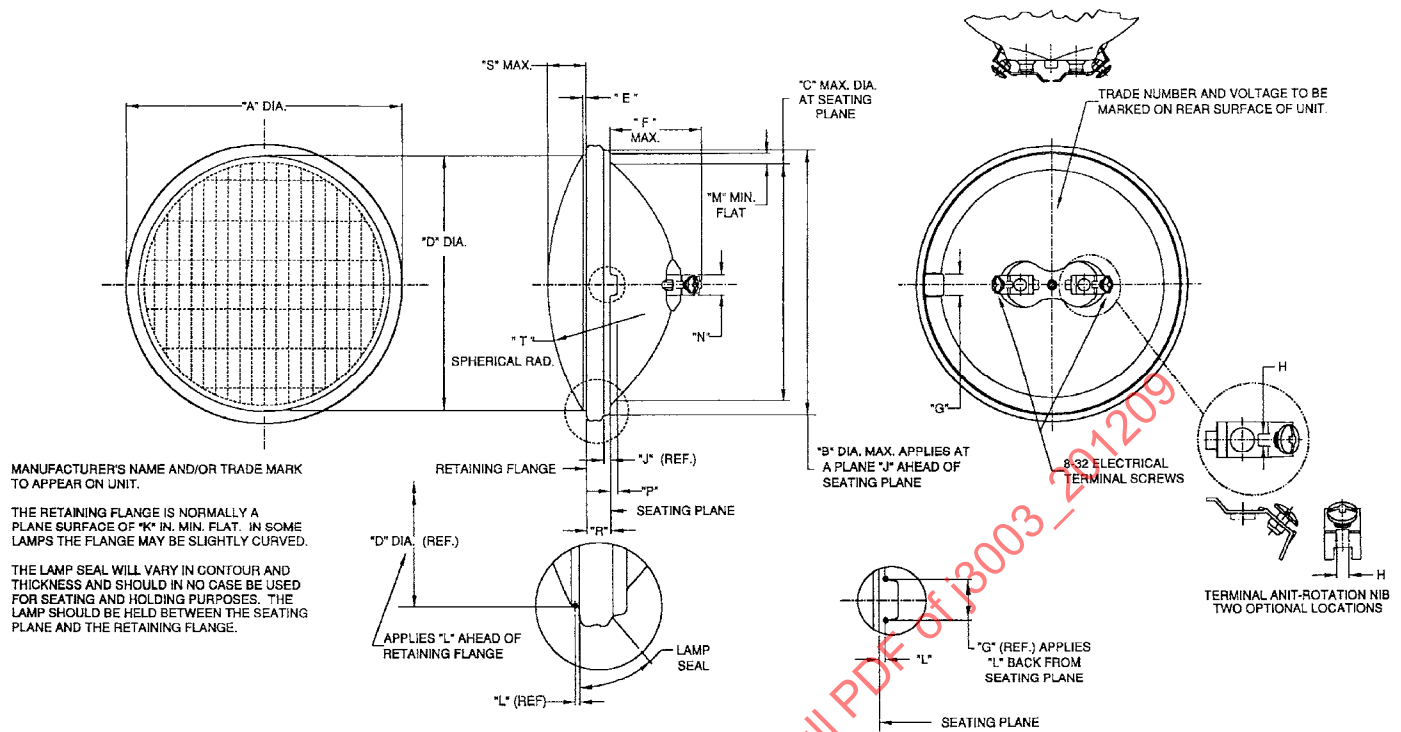


FIGURE 1 - DIMENSIONS OF 146 mm (5-3/4 in) DIAMETER SEALED LIGHTING UNIT

TABLE 1 - DIMENSIONS OF 146 MM (5-3/4 IN) DIAMETER SEALED LIGHTING UNIT

| Letter | mm                      | in                        | Letter | mm                     | in                        |
|--------|-------------------------|---------------------------|--------|------------------------|---------------------------|
| A      | $144.8^{+0.0}_{-2.5}$   | $5.70^{+0.00}_{-0.10}$    | M      | 3.18                   | 0.125                     |
| B      | 139.06                  | 5.475                     | N      | $9.52 \pm 0.25$        | $0.375 \pm 0.010$         |
| C      | 129.54                  | 5.100                     | P      | $3.43^{+0.76}_{-0.00}$ | $0.135^{+0.030}_{-0.000}$ |
| D      | $133.7^{+0.00}_{-0.76}$ | $5.265^{+0.000}_{-0.030}$ | R      | $13.5 \pm 1.0$         | $0.53 \pm 0.04$           |
| E      | $2.00^{+1.50}_{-0.00}$  | $0.078^{+0.062}_{-0.000}$ | S      | 23.36                  | 0.92                      |
| F      | 63.5                    | 2.50                      | T      | $127.0 \pm 3.0$        | $5.00 \pm 1.2$            |
| G      | $11.17^{+0.00/-0.63}$   | $0.440^{+0.000}_{-0.025}$ |        |                        |                           |
| H      | $3.17 \pm 0.25$         | $0.125 \pm 0.010$         |        |                        |                           |
| J      | 2.79                    | 1.10                      |        |                        |                           |
| K      | 1.57                    | 0.062                     |        |                        |                           |
| L      | 0.76                    | 0.030                     |        |                        |                           |