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16300289

| REV | REVISION DESCRIPTION | ECN | DATE | APPROVAL |
|-----|----------------------|-----|------|----------|
|     |                      |     |      |          |

1. LAMP TYPE REFLECTORIZED LAMP (ELLIPTICAL), C-6 FILAMENT, HALOGEN REGENERATIVE CYCLE
2. RATED VOLTAGE 14.0 ±.01 VOLTS D.C.
3. CURRENT 1.79 ±5% AMPS
4. COLOR TEMPERATURE 3200 °K AT FILAMENT CENTER COILS OUTER DIAMETER USING A TELESCOPING OPTICAL PYROMETER
5. MEAN SPHERICAL CANDLEPOWER 44.0 ±12% MSCP (WIRE TERMINAL LAMP IN A 20" INTEGRATING SPHERE)
6. FOCAL DISTANCE 1.4" ±.05" FROM THE REFLECTOR RIM
7. END LIGHT OUTPUT WITH THE REFLECTOR RIM 1.4" FROM A .100" DIA. APERTURE AND .50" FROM THE APERTURE TO THE COSINE SURFACE OF THE EG&G COSINE PHOTOMETRIC PROBE, THE LIGHT OUTPUT SHALL BE A MINIMUM OF 2385 FOOTCANDLES. THIS MEASUREMENT SHALL BE PERFORMED USING AN EG&G MODEL 550 RADIOMETER/PHOTOMETER SYSTEM EQUIPPED WITH A 550-18 COSINE PHOTOMETRIC PROBE
8. DESIGN LIFE 100 HOURS AVERAGE (LAB RATED) TESTED IN AMBIENT AIR; MOUNTED IN 1.4 IN <sup>3</sup>AL HEAT SINK WITH 9.5 IN<sup>2</sup> SURFACE AREA. THIS IS THE MINIMUM HEAT SINK SIZE RECOMMENDED.
9. SPOT SIZE AT A DISTANCE OF 1.4" FROM THE REFLECTOR RIM, THE MINOR DIAMETER OF THE OVAL SPOT SHALL BE .260" MINIMUM DIA. WHICH IS LOCATED ON AXIS TO THE REFLECTOR. SPOT SIZE IS DETERMINED BY THE POINT AT WHICH 50% OF THE CENTER INTENSITY IS REACHED.

|   |      |       |                |         |   |             |       |    |
|---|------|-------|----------------|---------|---|-------------|-------|----|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES |      |       | DRAWN          | DATE    | WELCH ALLYN, INC.<br>SKANEATELES FALLS, NY U.S.A. |             |       |    |
| TOLERANCES ON:                                      |      |       | PMB            | 4/21/94 |   |             |       |    |
| BASIC DIMENSION                                     | .XX  | .XXX  | CHECKED        | DATE    | TITLE:<br>LAMP SPECIFICATIONS FOR 8211-001        |             |       |    |
| UP TO 6   | ±.02 | ±.005 | RAD            | 4/27/94 |   |             |       |    |
| ABOVE 6 TO 24                                       | ±.03 | ±.010 | APPROVED       | DATE    | CODE IDENT  | DRAWING NO. | REV.  |    |
| ABOVE 24  | ±.06 | ±.015 | WKM            | 4/27/94 | 64475   | 16300289    |       |    |
| ANGLES ± 1/2 DEGREE                                 |      |       | REL. FOR PROD. | DATE    | SCALE   |             | SHEET | OF |
|   |      |       | DAB            | 5/9/94  |   |             |       |    |
|   |      |       | DO NOT SCALE   |         |   |             |       |    |