16300315

REV	REVISION DESCRIPTION	ECN	DATE	APPROVAL

1. LAMP TYPE — REFLECTORIZED LAMP (PARABOLIC), C-6 FILAMENT, HALOGEN REGENERATIVE CYCLE

2. RATED VOLTAGE — 12.00 ±.01 VOLTS D.C.

3. CURRENT — 1.00 ±5% AMPS

4. COLOR TEMPERATURE — 3280 °K AT FILAMENT CENTER COILS OUTER DIAMETER USING A TELESCOPING OPTICAL PYROMETER

5. MEAN SPHERICAL CANDLEPOWER — 22.0 ±12% MSCP (WIRE TERMINAL LAMP IN A 20" INTEGRATING SPHERE

6. DIVERGENCE ANGLE — DIVERGENCE 6° ±2° AT GREATER THAN 48" FROM REFLECTOR RIM

7. END LIGHT OUTPUT

A. WITH THE REFLECTOR RIM 48" FROM THE COSINE SURFACE OF THE EG&G COSINE PHOTOMETRIC PROBE, THE LIGHT OUTPUT SHALL BE A MINIMUM OF 103 FOOTCANDLES. THIS MEASUREMENT SHALL BE PERFORMED USING AN EG&G MODEL 550 RADIOMETER/PHOTOMETER SYSTEM EQUIPPED WITH A 550-18 COSINE PHOTOMETRIC PROBE

B. DARK CENTER IN LIGHT SPOT VISUALLY DISAPPEARS AT 8 TO 14" FROM REFLECTOR RIM

8. DESIGN LIFE — 40 HOURS AVERAGE (LAB RATED) TESTED IN AMBIENT AIR WITH G4 SOCKET AS ONLY HEAT SINK. RECOMMENDED MAXIMUM HEAT SINK IS .5 IN^3 AL WITH 4 IN^2 AREA

9. SPOT SIZE — $2*(d*TAN(A/2)) = SPOT\ DIAMETER\ IN\ INCHES$

d = DISTANCE FROM REFLECTOR RIM TO TARGET PLANE
A = DIVERGENCE ANGLE

SPOT SIZE IS DETERMINED BY POINT AT WHICH 50% OF CENTER INTENSITY IS REACHED. CALCULATION GOOD FOR GREATER THAN 48" FROM REFLECTOR RIM

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES

TOLERANCES ON:

BASIC DIMENSION	.XX	.XXX
UP TO 6	±.02	±.005
ABOVE 6 TO 24	±.03	±.010
ABOVE 24	±.06	±.015

ANGLES ± 1/2 DEGREE

DRAWN	PMB	DATE 7/13/94
CHECKED	RAD	7/13/94
APPROVED	WKM	7/13/94
REL. FOR PROD.	DAB	7/19/94

DO NOT SCALE

WELCH ALLYN, INC.
SKANEATELES FALLS, NY U.S.A.

TITLE:

LAMP SPECIFICATIONS FOR 8211-003

CODE IDENT		DRAWING NO.	REV.
64475		16300315	
SCALE			SHEET OF