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		16300301		
REV	REVISION DESCRIPTION	ECN	DATE	APPROVAL

1. LAMP TYPE

REFLECTORIZED LAMP (PARABOLIC), C-6 FILAMENT, HALOGEN REGENERATIVE CYCLE
2. RATED VOLTAGE

4.25 ±.01 VOLTS D.C.
3. CURRENT

1.060 ±5% AMPS
4. COLOR TEMPERATURE

3000 °K AT FILAMENT CENTER COILS OUTER DIAMETER USING A TELESCOPING OPTICAL PYROMETER
5. MEAN SPHERICAL CANDLEPOWER

3.9 ±12% MSCP (WIRE TERMINAL LAMP IN A 20" INTEGRATING SPHERE)
6. DIVERGENCE ANGLE

DIVERGENCE 9° ±2° AT GREATER THAN 36" FROM REFLECTOR RIM
7. END LIGHT OUTPUT

A. WITH THE REFLECTOR RIM 36" FROM THE COSINE SURFACE OF THE EG&G COSINE PHOTOMETRIC PROBE, THE LIGHT OUTPUT SHALL BE A MINIMUM OF 31 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 4 TO 7" FROM REFLECTOR RIM
8. DESIGN LIFE

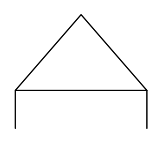
650 HOURS AVERAGE (LAB RATED)
9. SPOT SIZE

$2*(d*\text{TAN}(A/2))$ = 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 36" FROM REFLECTOR RIM

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES			DRAWN PMB	DATE 6/21/94	WELCH ALLYN, INC. SKANEATELES FALLS, NY U.S.A.			
TOLERANCES ON:			CHECKED		TITLE: LAMP SPECIFICATIONS FOR 8104-003			
BASIC DIMENSION	.XX	.XXX	APPROVED		CODE IDENT		DRAWING NO.	
UP TO 6	±.02	±.005	REL. FOR PROD.	6/21/94	64475		16300301	
ABOVE 6 TO 24	±.03	±.010					REV.	
ABOVE 24	±.06	±.015		6/23/94				
ANGLES ± 1/2 DEGREE			DO NOT SCALE		SCALE		SHEET OF	