

NO	1	2010 EDITION	DESCRIPTION OF REVISIONS	MADE BY	C. COLE	DATE	03/10	NO	3	4	DESCRIPTION OF REVISIONS	MADE BY	DATE
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Single Arc Tube Lamps								
		70W	100W	150W	250W	310W	400W	
ANSI Spec No.		S62	S54	S55	S50	S67	S51	
PHYSICAL CHARACTERISTICS								
Bulb Designation		E17 or B17	ED23.5 or ED23.5	ED23.5 or ET23.5	ED18 or ET18	ED18 or ET18	ED18 or ET18	
Base Type Designation		E39	E39	E39	E39	E39	E39	
Operating Position		Universal	Universal	Universal	Universal	Universal	Universal	
Nominal Bulb Diameter		In	1.5	2.1	2.94	2.2	2.2	
Maximum Overall Length (MOL)		In	5.39	7.75	7.75	9.76	9.76	
Nominal Light Center Length (LCL)		In	3.44	5	5	5.75	5.75	
ELECTRICAL CHARACTERISTICS								
Nominal Lamp Watts		W	70	100	150	250	310	400
Nominal Lamp Voltage		Vrms	55	55	55	100	100	100
STARTING REQUIREMENTS								
Min Ballast Open Circuit Volts		Vrms	110	110	110	198	198	198
Time to Stabilize (Cold Start)		Min	3-4	2-4	3-4	3-4	3-4	3-4
Hot Restrike Time (Typ)		Min	1	1	1	1	1	1
PHOTOMETRIC CHARACTERISTICS								
Average Rated Life (Note 1)		Hr	24,000+	24,000+	24,000+	24,000+	24,000+	24,000+
Min Initial Lumens (Note 2)			5,995	9,500	15,800	27,000	37,000	50,000
Min Mean Lumens (Note 3)			5,385	8,500	13,800	24,300	33,300	45,000
Note 1: 67% survival rate in a large statistical sample, using 10 hrs ON time per lamp start. This means the lamp shall have a 24,000 hours "plus" life rating.								
Note 2: Measured after 100 hrs of seasoning.								
Note 3: Measured at 50% of rated life.								
Note 4: All single arc lamps shall comply with all applicable EPA TCLP requirements.								

NOT TO SCALE

DESIGN APPROVED	ARIZONA DEPARTMENT OF TRANSPORTATION INTERMODAL TRANSPORTATION DIVISION TRAFFIC SIGNALS AND LIGHTING STANDARD DRAWINGS	REVISION	03/10
SIGNATURE		DRAWING NO.	T.S. 14-1
APPROVED FOR DISTRIBUTION	HIGH PRESSURE SODIUM (HPS) LAMPS	SHEET NO.	2 OF 3
ON FILE			