Dual Arc Tube Lamps					
		100W	150W	250W	400W
ANSI Spec No.		S54	S55	S50	S51
PHYSICAL CHARACTERISTICS					
Bulb Designation		ED23.5	ED23.5 or ET23.5	ED18 or ET18	ED18 or ET18
Base Type Designation		E39	E39	E39	E39
Operating Position		Universal	Universal	Universal	Universal
Nominal Bulb Diameter	In	2.1	2.94	2.2	2.2
Maximum Overall Length (MOL)	In	7.75	7.75	9.76	9.76
Nominal Light Center Length (LCL)	In	5	5	5.75	5.75
ELECTRICAL CHARACTERISTICS					
Nominal Lamp Watts	W	150	150	250	400
Nominal Lamp Voltage	Vrms	55	55	100	100
STARTING REQUIREMENTS					
Min Ballast Open Circuit Volts	Vrms	110	110	198	198
Time to Stabilize (Cold Start)	Min	3-4	3-4	3-4	3-4
Hot Restrike Time (Typ)	Min	Instant	Instant	Instant	Instant
PHOTOMETRIC CHARACTERISTICS					
Average Rated Life (Note 1)	Hr	40,000	40000	40000	40000
Min Initial Lumens (Note 2)		9,500	15600	27500	47500
Min Mean Lumens (Note 3)		7,600	12500	23200	40000

Note 1: 67% survival rate in a large statistical sample, using 10 hrs ON time per lamp start.

Note 2: measured after 100 hrs of seasoning.

Note 3: measured at 50% of rated life.

Note 4: If available lamps which comply with EPA TCLP requirements shall be used.

NOT TO SCALE

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

NO	DESCRIPTION OF REVISIONS	MADE BY	DATE
1	2010 EDITION	C. COLE	03/10
2			
3			
4			