

LAMP COMPARISON

SOURCE	LAMP	WATTS	LIFE (HRS)	LUMENS		MAINTENANCE FACTOR	COLOR RENDITION INDEX	TIME REQUIRED (MIN)		MEAN LUMENS PER WATT		
				INITIAL	MEAN			START	RESTRIKE	AT 100% OF LAMP LIFE	AT 50% OF LAMP LIFE	
FLUOR-ESCENT	Compact	26	10,000	1,800	1,530	0.85	0.82	Immediate		58.8	50.0	
		32	10,000	2,400	2,040	0.85	0.82	Immediate		63.8	54.2	
	Linear, T8	17	20,000	1,400	1,300	0.93	0.85	Immediate		76.5	71.0	
		32	20,000	2,950	2,800	0.95	0.85	Immediate		87.5	83.1	
INDUCTION	Induction Lamp System	55	100,000	3,500	2,800	0.75	0.80	Immediate		50.9	38.2	
		85	100,000	6,000	4,800	0.75	0.80	Immediate		56.5	42.4	
		165	100,000	12,000	9,600	0.70	0.80	Immediate		58.2	40.7	
HIGH INTENSITY DISCHARGE (HID)	Metal Halide	Standard	175	10,000	13,500	8,775	0.65	0.65	4	15	50.1	32.6
			250	10,000	20,500	13,500	0.66	0.65	4	15	54.0	35.6
			400	20,000	36,000	24,000	0.67	0.65	4	15	60.0	40.0
		Pulse Start	70	15,000	5,600	3,600	0.64	0.65	1-2	1-2	51.4	33.1
			100	15,000	9,000	5,900	0.66	0.65	1-2	2-4	59.0	38.7
			175	15,000	16,000	11,200	0.70	0.65	2	3-4	64.0	44.8
			250	15,000	23,800	16,600	0.70	0.65	2	3-4	66.4	46.3
			400	20,000	44,000	31,000	0.70	0.65	2	3-4	77.5	54.6
			70	24,000	6,300	5,670	0.90	0.21	1-3	1	81.0	72.9
	Standard	100	24,000	9,500	8,550	0.90	0.21	1-3	1	85.5	77.0	
		150	24,000	16,000	14,400	0.90	0.21	1-3	1	96.0	86.4	
		250	24,000	28,500	25,600	0.90	0.21	1-3	1	102.4	92.0	
		400	24,000	50,000	45,000	0.90	0.21	1-3	1	112.5	101.3	
	High Pressure Sodium (HPS)	Color Corrected	70	15,000	4,400	3,960	0.90	0.60	1-3	1	56.6	50.9
			100	15,000	7,300	6,570	0.90	0.60	1-3	1	65.7	59.1
			150	15,000	12,000	10,800	0.90	0.60	1-3	1	72.0	64.8
			250	15,000	23,000	20,700	0.90	0.65	1-3	1	82.8	74.5
			400	15,000	37,500	33,750	0.90	0.65	1-3	1	84.4	75.9
	Dual Arc Tube	70	24,000	5,600	5,050	0.90	0.21	1-3	20s	72.1	65.1	
		100	24,000	9,100	8,190	0.90	0.21	1-3	20s	81.9	73.7	
		150	24,000	15,600	14,000	0.90	0.21	1-3	20s	93.3	83.8	
		250	24,000	27,500	24,750	0.90	0.21	1-3	20s	99.0	89.1	
		400	24,000	49,000	44,000	0.90	0.21	1-3	20s	110.0	98.8	
	Mercury Vapor	100	24,000	4,100	3,400	0.83	0.45	5-7	3-6	34.0	28.2	
		175	24,000	8,500	7,600	0.89	0.45	5-7	3-6	43.4	38.8	
		250	24,000	13,000	10,700	0.82	0.45	5-7	3-6	42.8	35.2	
		400	24,000	23,000	19,100	0.83	0.45	5-7	3-6	47.8	39.7	

Notes

- Pulse Start Metal Halide standard with 70w and 100w Metal Halide.
- Instant restrike available on HPS up to 150w; N/A on 250w and 400w.
- Mercury Vapor N/A at 70w.
- Auxiliary QTZ lamp avail. all fixtures; non-hazardous applications only.
- T-ratings may impact fixture suitability for specific application.