

FEDERAL SPECIFICATION

LAMPS, FLUORESCENT

This amendment, which forms a part of Federal Specification W-L-116a, dated October 6, 1958, was approved by the Commissioner, Federal Supply Service, General Services Administration, for the use of all Federal agencies, and shall become effective November 1, 1964.

Page 2, table I, delete in its entirety and substitute new table I. (See reverse side.)

Page 7, paragraph 6.2.1.1, line 10: After "5000 hour test." Insert, "Less than 20 percent plus two lamps of the preheat lamps tested shall consume higher than nominal wattage by more than 5 percent or fall below the minimum lumens at 100 hours value listed in table I, when measured in accordance with paragraph 4.9.1."

MILITARY INTERESTS:

Army—E M

Navy—Y Sh S MC

Air Force—WADC

W-L-116a

TABLE I.—*Sizes, colors, and ratings*

Lamp size		Base	Color ¹	Rated aver. lab. life ² (hours)	Minimum lumens at 100 hours	Maintenance aver. lumens at 40% of rated life
Nominal watts	Bulb					
Preheat type lamps						
6	T-5	Miniature bipin	White	6000	220	150
8	T-5	Miniature bipin	White	6000	350	280
15	T-8	Medium bipin	White & warm white	7500	780	620
15	T-8	Medium bipin	Cool white	7500	740	600
15	T-8	Medium bipin	Daylight	7500	640	530
20	T-12	Medium bipin	White & warm white	7500	1050	880
20	T-12	Medium bipin	Cool white	7500	980	820
20	T-12	Medium bipin	Daylight	7500	850	710
40 ³	T-12	Medium bipin	White & warm white	7500	2800	2500
40 ⁵	T-12	Medium bipin	Cool white	7500	2700	2400
40 ⁵	T-12	Medium bipin	Daylight	7500	2300	2000
90	T-17	Mogul bipin	White & warm white	7500	5500	4500
90	T-17	Mogul bipin	Cool white	7500	5200	4400
90	T-17	Mogul bipin	Daylight	7500	4500	3800
Instant start-lamps						
37.5 (72") ³	T-8	Single pin	White & warm white	7500	2750	2400
37.5 (72") ³	T-8	Single pin	Cool white	7500	2700	2280
37.5 (72") ³	T-8	Single pin	Daylight	7500	2240	1890
50 (96") ³	T-8	Single pin	White & warm white	7500	3700	3300
50 (96") ³	T-8	Single pin	Cool white	7500	3540	3220
50 (96") ³	T-8	Single pin	Daylight	7500	3060	2650
38.5 (48") ⁴	T-12	Single pin	White & warm white	7500	2580	2170
38.5 (48") ⁴	T-12	Single pin	Cool white	7500	2480	2070
38.5 (48") ⁴	T-12	Single pin	Daylight	7500	2040	1780
75 (96") ⁴	T-12	Single pin	White & warm white	7500	5600	4950
75 (96") ⁴	T-12	Single pin	Cool white	7500	5400	4880
75 (96") ⁴	T-12	Single pin	Daylight	7500	4500	4000

¹ Approximate color temperature: Warm White, 3000°K; White, 3500°K; Cool White, 4500°K; Daylight, 6500°K. The colors herein listed as "Warm White" and "Cool White" are designated by the lamp industry as "Standard Warm White" and "Standard Cool White" respectively.

² Three burning hours per start.

³ Specified values are at 0.200 ampere.

⁴ Specified values are at 0.425 ampere.

⁵ Requirements applicable also to rapid start lamps for which nominal watts are 41.