

**W-L-116a**  
**AMENDMENT—3**  
**June 23, 1964**  

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**SUPERSEDING**  
**Amendment—2**  
**June 5, 1962**

**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

**FSC 6240**

W-L-116a

TABLE I.—*Sizes, colors, and ratings*

Lamp size		Base	Color <sup>1</sup>	Rated aver. lab. life <sup>2</sup> (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 <sup>3</sup> .....	T-12	Medium bipin	White & warm white	7500	2800	2500
40 <sup>3</sup> .....	T-12	Medium bipin	Cool white	7500	2700	2400
40 <sup>3</sup> .....	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'') <sup>3</sup> .....	T-8	Single pin	White & warm white	7500	2750	2400
37.5 (72'') <sup>3</sup> .....	T-8	Single pin	Cool white	7500	2700	2280
37.5 (72'') <sup>3</sup> .....	T-8	Single pin	Daylight	7500	2240	1890
50 (96'') <sup>3</sup> .....	T-8	Single pin	White & warm white	7500	3700	3300
50 (96'') <sup>3</sup> .....	T-8	Single pin	Cool white	7500	3640	3220
50 (96'') <sup>3</sup> .....	T-8	Single pin	Daylight	7500	3060	2650
38.5 (48'') <sup>4</sup> .....	T-12	Single pin	White & warm white	7500	2580	2170
38.5 (48'') <sup>4</sup> .....	T-12	Single pin	Cool white	7500	2480	2070
38.5 (48'') <sup>4</sup> .....	T-12	Single pin	Daylight	7500	2040	1780
75 (96'') <sup>4</sup> .....	T-12	Single pin	White & warm white	7500	5600	4950
75 (96'') <sup>4</sup> .....	T-12	Single pin	Cool white	7500	5400	4880
75 (96'') <sup>4</sup> .....	T-12	Single pin	Daylight	7500	4500	4000

<sup>1</sup> 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.

<sup>2</sup> Three burning hours per start.

<sup>3</sup> Specified values are at 0.200 ampere.

<sup>4</sup> Specified values are at 0.425 ampere.

<sup>5</sup> Requirements applicable also to rapid start lamps for which nominal watts are 41.