

NATIONAL BUREAU OF STANDARDS REPORT

NBS PROJECT

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QUALIFICATION TESTS
OF
LAMPS SUPPLIED TO THE GOVERNMENT
BY
TEN CONTRACTORS
DURING FIRST TEN MONTHS
OF
CONTRACT PERIOD
September 1, 1958 to August 31, 1959

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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS

1. PURPOSE OF TESTS

Paragraphs II(b) and II(c) of the Solicitation for Offers for Electric Lamps (class 6240) issued April 29, 1958 provided that any bid to supply lamps to the Government during the contract period September 1, 1958 to August 31, 1959 would be considered only if the bidder was qualified under the requirements of applicable Federal Specifications and also specified means whereby successful bidders could qualify for the succeeding contract period September 1, 1959 to August 31, 1960. This report gives a summary of the tests made in accordance with these provisions of the Solicitation for Offers.

2. PROCEDURE

A Government lamp inspector made periodic visits to the factories or warehouses of contractors supplying lamps to the Government and inspected these lamps to determine compliance with applicable Federal Specifications. Samples from tentatively accepted lots of lamps were selected and forwarded to the National Bureau of Standards for life test. The life tests of the various categories of lamps were made in accordance with the requirements of applicable Federal Specifications as follows:

<u>Lamps</u>	<u>Groups</u>	<u>Federal Specification</u>
Incandescent, large	a-as-bs-es-rs	W-L-101e
Incandescent, miniature	m	W-L-111c
Fluorescent	fl	W-L-00116
Photographic flash	pf	W-L-00122

3. NUMBER OF LAMPS LIFE-TESTED

Lamps as follows, manufactured by current contractors, were life-tested:

<u>Test No.</u>	<u>Lamp Manufacturer</u>	<u>Groups</u>	<u>Number Life-Tested</u>
1	Amplex Corp.	bs	82
2	Amplex Corp.	rs	79
3	Amplex Corp.	pf	195
4	Arc-Ray Electric Corp.	fl	90
5	Champion Lamp Works	a-bs-es-rs	803
6	Champion Lamp Works	fl	80
7	Dura Electric Lamp Co.	pf	361
8	General Electric Co.	a-as-bs-es-rs	820
9	General Electric Co.	m	87
10	General Electric Co.	fl	80
11	General Electric Co.	pf	135
12	Interlectric Corp.	fl	80
13	Radiant Lamp Corp.	as	40
14	Sylvania Electric Prod.	a-as-bs-es-rs	726
15	Sylvania Electric "	fl	90
16	Sylvania Electric "	pf	115
17	Tung-Sol Electric Inc.	m	68
18	Westinghouse Elec. Corp.	a-as-bs-es-rs	728
19	Westinghouse "	" m	80
20	Westinghouse "	" fl	80
21	Westinghouse "	" pf	115

4. RESULTS

The lamps included in the qualification tests were the product of ten manufacturers. These were grouped into 21 separate qualification tests as tabulated in Section 3 above. The lamps in each of the 21 tests complied with the qualification requirements of the applicable Federal Specifications as listed in Section 2 above, in effect on the date of the tests. Detailed test results are on file at the National Bureau of Standards.

5. REMARKS

Each of the ten contractors currently supplying lamps to the Government has qualified to have his bid to supply lamps of the types listed in Section 3 above considered for the contract period September 1, 1959 to August 31, 1960.

