



## D. RAILWAY SIGNAL LAMPS

Train & Transit Lamps  
Fluorescent Lamps

# RAILWAY SIGNAL LAMPS<sup>§</sup>

This section includes the electrical and physical specifications for Incandescent Railway Signal lamps. Also shown is the Item number assigned to these lamps by the Association of American Railroads. For your information these Item numbers are shown in the A.A.R. Signal Manual under the Activity Group Table—Incandescent Electric Lamps for Railroad Signal purposes.

Lamp Ordering Code	AAR #	Watts or Amps	Volts	Bulb	Finsh	Base	Fil. Shape	LCL	MOL	Avg. Rated Life (Hrs.)**
1¼G6/2	29	1.25A	12	G6	Clear	Cand.	C-2V	1	1 <sup>5</sup> / <sub>8</sub>	1500
5S11/94SC★	63	5	10	S11	Clear	S.C.Bay.	C-2R	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
5/3½S11SC★	64 3½	5	10	S11	Clear	S.C.Bay.	C2V C12	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
9G16½/1▶	33	9	12	G16½	Clear	2-Lug Sleeve	CC6	—	2 <sup>15</sup> / <sub>16</sub>	1500
9T7/ISC	27	9	12	T7	Clear	S.C.Bay.	CC6	1¼	2 <sup>3</sup> / <sub>8</sub>	1500
10S11/5SC‡	49	10	120	S11	Clefar	S.C.Bay.	C-7A	1¼	2 <sup>3</sup> / <sub>8</sub>	1500
11S11/4SC★	98	11	10	S11	Clear	S.C.Bay.	CC-6	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
11S11SC★	72	11	11	S11	Clear	S.C.Bay.	CC6	1¼	2 <sup>3</sup> / <sub>8</sub>	2500
13/3½S11/95★§§	67	13 3½	10	S11	Clear	S.C.Bay.	CC6	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
15A/S8SC/IF	84	0.15A	2.9	S8	IF	S.C.Bay.	C2R	—	2	1000
17S11SC★	75	17	13.5	S11	Clefar	S.C.Bay.	CC6	1¼	2 <sup>3</sup> / <sub>7</sub>	2000
18A15/3▶†§§	95	18	10	A15	Clear	2-Lug Sleeve	CC-6	2 <sup>7</sup> / <sub>32</sub>	3¾	1500
18A15/7▶†§§	94	18	10	A15	Clear	3-Lug Sleeve	CC-6	2 <sup>3</sup> / <sub>32</sub>	3¾	1500
18S11/1SC★§§	88	18	10	S11	Clear	S.C.Bay.	CC-6	1¾	2 <sup>3</sup> / <sub>8</sub>	1000
18/3½S11SC★	102	18 3½	8	S11	Clear	S.C.Bay.	CC-6 C-12	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
18/3½S11SC★	101	18 3½	10	S11	Clear	S.C.Bay.	CC-6 C-12	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
18/3.5A15/5▶†	96	18 3½	10	A15	Clear	2-Lug Sleeve	CC-6 CC-6	2 <sup>7</sup> / <sub>32</sub>	3¾	1500
18/3.5A15/7▶†	93	18	10	A15	Clear	3-Lug Sleeve	CC-6 CC-6	2 <sup>3</sup> / <sub>16</sub>	3¾	1500
25G16½SC‡	35	25	120	G16½	Clear	S.C.Bay.	C5	1¼	3	1000
25S11/4SC★§§	100	25	10	S11	Clear	S.C.Bay.	CC-6	1¼	2 <sup>3</sup> / <sub>8</sub>	1000
40A15/2▶†	19	40	10	A15	Clear	2-Lug Sleeve	C-2V	2 <sup>7</sup> / <sub>32</sub>	3¾	1500
40A15/3▶†	20	40	10	A15	Clear	3-Lug Sleeve	C-2V	2 <sup>3</sup> / <sub>16</sub>	3¾	1500
1161	83	1.35	12.8	S8	Clear	S.C.Bay.	CC-6	1¼	2	500
25A/S8/1SC	47	.25	13.5	S8	Clear	S.C.Bay.	C-2R	1¼	2	1000

★ Light center length A.A. tolerance — 1/64".

‡ Light center length and A.A. tolerance — 1/16".

▶ Single contact medium bayonet base without pins, with a lug focusing sleeve as indicated. LCL and A.A. tolerance — 1/16".

† Will operate in any position, but lumen maintenance is best when burned vertically base up.

\*\* Average rated life is the number of hours to burn out 50% of the lamps in a test-sample group when tested under laboratory-controlled conditions.

§ Lamps are shipped only in multiples of full-standard packages of 120 pieces.

§§ Std. stock lamps.

# TRAIN & TRANSIT LAMPS<sup>§</sup>

This section includes the electrical and physical specifications for incandescent lamps designed specifically for the transportation industry.

Lamp Ordering Code	Volts	Watts or Amps	Bulb	Base	Fil. Shape	MOL	Avg. Rated Life (Hrs.)**	Description
5S14	34	5	S14	Med.	C-9	3½	1000	Clear-Train
6S6/B	120	6	S6	Cand.	C-7A	17/8	1500	Sprayed Blue-Train
6S6DC	48	6	S6	D.C.Bay.	C-7A	113/16	1500	Indicator
6S6	30	6	S6	Cand.	C-2V	17/8	1500	Clear-Train
6S6	32	6	S6	Cand.	C-2V	17/8	1500	Clear-Train
6S6	60	6	S6	Cand.	C7A	17/8	1500	Clear-Train
6S6	75	6	S6	Cand.	C7A	17/8	1500	Clear-Train Indicator
6S6/5SC	60	6	S6	S.C.Bay.	C-1	113/16	1500	Clear-Train
15A	12	15	A17	Med.	C-6	35/8	1000	IF—Train
15A	34	15	A17	Med.	C-9	35/8	1000	Inside Frosted-Train (2)
15A	75	15	A17	Med.	C-9	35/8	1000	inside Frosted-Train
15S11/3DC	75	15	S11	D.C.Bay.	C-1	23/8	1000	Clear-Train
15S14/IF	34	15	S14	Med.	C-9	3½	1000	Inside Frosted-Locomotive Cab
15S14/8	34	15	S14	Med.	C-9	3½	1000	Inside Frosted-Train Control
15T6	60	15	T6	Cand.	C-1	31/16	2000	Clear-Train
20R12SC	30	20	R12	S.C.Bay.	CC-8	25/8	500	Train Reading Lamp-Reflector-Light Outside Frosted
25A17/RS	75	25	A17	Med.	C-9	35/8	1000	Inside Frosted-Train, Rough Service
25A	30	25	A19	Med.	C-9	37/8	1000	Inside Frosted-Train (2)
25A	34	25	A19	Med.	C-9	37/8	1000	Inside Frosted-Train (2)
25A	60	25	A19	Med.	C-9	37/8	1000	Inside Frosted-Train (2)
25OAR/FL	34	25	PAR38	Med.Skt.	C-6	55/16	1000	PAR-Train-Floodlight
25PAR/FL	60	25	PAR38	Med.Skt.	C-6	55/16	1000	PAR-Train-Floodlight
25T8½/IF	34	25	T8½	Med.	C-8	53/8	1000	Inside Frosted-Train
25T8½/IF	60	25	T8½	Med.	C-8	53/8	1000	Inside Frosted-Train
30S11/100	32	30	S11	D.C.Bay.	C-7A	23/8	500	Clear-Train Marker (5)
30S11DC	64	30	S22	D.C.Bay.	CC9	23/8	500	Clear-Train Marker (5)
30S11DC	75	30	S11	D.C.Bay.	CC9	23/8	500	Clear-Train Marker Control Stand (5)
36A/Ryh	120	.342 Amps	A19	Med.	C-5	37/8	1000	Street Railway Headlight (4)
40A	60	40	A19	Med.	C-9	4¼	1000	Inside Frosted-Train (2)
40T8½/IF	30	40	T8½	Med.	C-8	53/8	1000	Inside Frosted-Train
50A/RS	32	50	A19	Med.	C-9	37/8	1000	Inside Frosted-Rough Service, Train
50A19/RS	75	50	A19	Med.	C-9	37/8	1000	Inside Frosted-Rough Service Train
50A21	30	50	A21	Med.	C-9	47/8	1000	Inside Frosted-Train (2)
50A21	34	50	A21	Med.	C-9	47/8	1000	Inside Frosted-Train
56A21	120	.519 Amps	A21	Med.	C-9	215/16	1000	Inside Frosted-Street Railway
60PAR	38	60	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Locomotive Headlight
60PAR/2/R	38	60	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Red Lens-Transit and Train Warning (6)
75PAR36/RS	75	75	PAR36	Screw Terminal	CC-6*	2¾	500	PAR-Train Warning-Rough Service
75PAR/FL	30	75	PAR38	Med.Skt.	C-6	55/16	1000	PAR-Train-Floodlight
75PAR46	48	75	PAR46	Screw Terminal	CC-2V	3¾	800	PAR-Locomotive Headlight
88PAR/FL	75	88	PAR36	Screw Terminal	CC-6	2¾	1500	Train Warning

§ Lamps are shipped only in multiples of full-standard packages of 120 pieces.

## TRAIN & TRANSIT LAMPS (continued)

Lamp Ordering Code	Volts	Watts or Amps	Bulb	Base	Fil. Shape	MOL	Avg. Rated Life (Hrs.)**	Description
100A21/3	32	100	A21	Brass Med.	C-5	3 <sup>13</sup> / <sub>16</sub>	500	Clear-Locomotive Headlight (3)
100A	34	100	A23	Brass Med.	C-9	5 <sup>15</sup> / <sub>16</sub>	1000	Inside Frosted-Train (2)
100A/RS	30	100	A21	Med.	C-9	5 <sup>1</sup> / <sub>4</sub>	1000	Inside Frosted-Rough Service-Train
100PAR46	60	100	PAR46	Screw Terminal	CC-2V	3 <sup>3</sup> / <sub>4</sub>	800	PAR-Locomotive Headlight (6)
100A23	12	100	A23	Med.	C-6	5 <sup>15</sup> / <sub>16</sub>	1000	IF—Train
150P25/15	120	150	P25	Brass Med.	C-5	4 <sup>3</sup> / <sub>4</sub>	500	Clear-Train Headlight (5)
150PAR46	120-130	150	PAR46	Screw Terminal	C-13	3 <sup>3</sup> / <sub>4</sub>	1000	PAR-Locomotive Headlight (6)
150PAR46/1	32	150	PAR46	Screw Terminal	CC-8	3 <sup>3</sup> / <sub>4</sub>	800	PAR-Locomotive and Transit Car Headlight
200	32	200	PS-30	Med.	C-9	8 <sup>1</sup> / <sub>16</sub>	1000	Clear-Train (2)
200PAR	12	200	PAR56	Screw Terminal	CC-8	4 <sup>1</sup> / <sub>2</sub>	500	PAR-Locomotive Headlight (1)
200PAR	30	200	PAR56	Screw Terminal	CC-8	4 <sup>1</sup> / <sub>2</sub>	500	PAR-Locomotive Headlight (1)
250P25	32	250	P25	Brass Med.	C-5A	4 <sup>3</sup> / <sub>4</sub>	500	Clear-Locomotive Headlight (3)
250P25	120	250	P25	Brass Med.	C-5	4 <sup>3</sup> / <sub>4</sub>	500	Clear-Locomotive Headlight (3)
250P25/22	32	250	P25	Med. Pref.	C-5A	5	500	Clear-Locomotive Headlight (3)
300P25P	60	300	P25	Med. Pref.	C-5A	5	500	Clear-Locomotive Headlight (5)
4A/S6	10	4 Amps	S6	S.C. Bay.	CC-2V	1 <sup>13</sup> / <sub>16</sub>	—	Clear-Resistance Ballast-For operation in series with choke ballast and 1-14WF lamp on 60v D.C. circuits

- (1) Burning position: horizontal  
 (2) Will operate in any position, but lumen maintenance is best when burned vertically, base up.  
 (3) Unsatisfactory lamp operation is likely to occur in burning positions between horizontal and base up, particularly between 45° from base up and base up.  
 (4) Nominal watts. Actual watts are determined by multiplying the volts by the design amperes.  
 (5) Burning position: base down to horizontal.  
 (6) Burning position: plane through lamp axis and base terminals horizontal.  
 \*\* Average rated life is the number of hours to burn out 50% of the lamps in a test-sample group when tested under laboratory-controlled conditions.  
 \* Shock mount filament.

## FLUORESCENT LAMPS<sup>§</sup>

Lamp Ordering Code	Length Inches	Watts	Base	Color	Special Characteristics
F28T8/N/1	28	15 (220 MA)	Single Pin Fluted	Natural	Transit Car Lighting/D.C. Operation
F72T8/N/1	72	45 (225 MA)	Single Pin Fluted	Natural	Transit Car Lighting/D.C. Operation
F40CW	48	40	Medium Bipin	Cool White	Transit & Train
F40WW	48	40	Medium Bipin	Warm White	Transit & Train
F30T12/CW/RS	36	30	Medium Bipin	Cool White	Transit & Train
F30T12/WW/RS	36	30	Medium Bipin	Warm White	Transit & Train

§ Fluorescent lamps are shipped in multiples of full-standard packages.