



The TOMAR Pumper-2 System features the HELIOBE™ lightbar—the most visible, durable warning light ever devised for public safety use. HELIOBE™ lightbars use TOMAR's NEOBE® technology, providing the look of neon with the power of strobe. The NEOBE® design produces more light per watt than any strobe power supply on the market. Optional traffic preemption mode is available to activate TOMAR STROBECOM 1™ or 3M OPTICOM® systems. The TOMAR Pumper-2 System meets and exceeds all SAE and NFPA 1901-1999 requirements.

ORDERING INDEX

Catalog No. **PUMPER-2**

Material List

Qty. Item

Zone A

- 1 930N-5606-PS02
- 2 RECT-46WBWP-R

Zone B

- 2 RECT-37SWP-R

Zone C

- 2 RECT-37SWP-R
- 2 824-1228-R

Zone D

- 2 RECT-37SWP-R
- 2 780-1228-WP

Options

/PRE Traffic preemption dual frequency

SPECIFICATIONS

Clearing the Right of Way

Zone A	Provided	Required
Upper	1,260,000	1,000,000
Lower	175,000	150,000

Zone B	Provided	Required
Upper	560,000	400,000
Lower	255,000	150,000

Zone C	Provided	Required
Upper	1,070,000	400,000
Lower	255,000	150,000

Zone D	Provided	Required
Upper	560,000	400,000
Lower	255,000	150,000

Average amperage: 36.8

Blocking the Right of Way

Zone A	Provided	Required
Upper	510,000	400,000
Lower	175,000	150,000

Zone B	Provided	Required
Upper	475,000	400,000
Lower	255,000	150,000

Zone C	Provided	Required
Upper	1,070,000	800,000
Lower	255,000	150,000

Zone D	Provided	Required
Upper	475,000	400,000
Lower	255,000	150,000

Average amperage: 34.8

Note: The photometric data provided is for the complete lighting system. Additional lighting may be added, provided the average amperage draw does not exceed NFPA guidelines of 45 amps for one midship light, 50 amps for two midship lights and 55 amps for three midship lights.

TOMAR PUMPER-2 SYSTEM

Emergency Fire Apparatus Warning Light System in accordance with NFPA-1901-1999

System:

Zone Placement	Qty.	Tomar Part #	Description
Zone A - Upper	1	930N-5606-PS02	930N-5606-PS02 Red Lightbar 16 Lamps Total - 14 Strobe, 2 Halogen-Flashers/Strobe as Follows: 2 Clear Strobes - Front Center 4 Red Strobes - Front 1 Red Strobe - 45 Degree Front Corner - Driver Side 1 Red Strobe - 45 Degree Front Corner - Passenger Side 1 Amber/Red Halogen-Flasher/Strobe - Alley Driver Side 1 Amber/Red Halogen-Flasher/Strobe - Alley Passenger Side 2 Amber Strobes - Rear Center 4 Red Strobes - Rear
Zone C - Upper	2	824-1228-R	824-1228-Red Maxistrobe
Zone A - Lower	2	RECT-46WBWP-R	RECT-46 Wide Beam Red Waterproof Strobe Lamp
Zone B - Lower	2	RECT-37SWP-R	RECT-37S-Red Waterproof Strobe Lamp
Zone C - Lower	2	RECT-37SWP-R	RECT-37S-Red Waterproof Strobe Lamp
Zone D - Lower	2	RECT-37SWP-R	RECT-37S-Red Waterproof Strobe Lamp
	2	780-1228-WP	780-1228 4 Head NEOBE® Waterproof Power Supply

NOTE: Based on the length of your apparatus, one or more midship lamps may need to be added in lower zones B and D to ensure warning lamp coverage every 25 feet.

Operating Description:

The TOMAR Pumper-2 System is operated in the following modes:

For "Clearing the Right of Way"

- Upper Level All of the lamps on the 930N-5606-PS02 Lightbar operating in High Intensity.
The 824-1228 Maxistrokes operating in either double or multi flash mode.
- Lower Level The 780-1228 Power Supplies operating in **Normal** (Neobe) Flash Rate, High Intensity.

For "Blocking the Right of Way"

- Upper Level All of the lamps on the 930N-5606-PS02 Lightbar operating in High Intensity, except that the two Front Center Clear Strobes Lamps are Deactivated.
The 824-1228 Maxistrokes operating in either double or multi flash mode.
- Lower Level The 780-1228 Power Supplies operating in **Normal** (Neobe) Flash Rate, High Intensity.

Substitutions permissible to the Upper Level warning light system to comply with NFPA standards include but are not limited to the following selections:

1. Red lamps may be substituted with Blue or Amber (if zone permissible).
2. The PS02 Lightbar is available in various lengths. The 930N-5606-PS02 may be substituted with either the 930N-6407-PS02 or 930N-7208-PS02.
3. The 824-1228-Red may be substituted with either Blue or Amber.

Substitutions permissible to Lower Level warning light system to comply with NFPA standards include but are not limited to the following selections:

1. The RECT-37SWP-Red may be substituted with any other zone permissible color(s).
2. The RECT-37SWP-Red may be substituted with a RECT-79SWP-Red or any other zone permissible color(s).
3. The use of Bezels (RECT-37-TSMF and RECT-79-TSMF) on Lower Level optical sources.
4. The RECT-46WBWP-Red may be substituted with a RECT-46WBWP-Blue or any other zone permissible color(s).
5. The RECT-46WBWP's may be substituted with RECT-46NBWP's.
6. The RECT-46WBWP's may be substituted with RECT-37SWP or RECT-79SWP.
7. The 780-1228 Power Supply operating the Lower Level optical sources may be substituted with any of the following:
770P-1228 Power Supply 782-1228 Power Supply 772-1228 Power Supply 776-1228 Power Supply
786-1228 Power Supply
 - a) May be used with RECT-37SWP's, RECT-79SWP's, and RECT46-NBWP's.
 - b) May be used with a pair of RECT-46WBWP-R (in one zone only) if three RECT-37SWP's (note substitutions above) are used in both adjacent zones.

NOTE: System amperage limitations on last page; substitute and add accordingly.

