



The TOMAR Pumper-3 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-3 System meets and exceeds all SAE and NFPA 1901-1999 requirements.

**ORDERING INDEX**

Catalog No. PUMPER-3

**Material List**

Qty. Item

Zone A

- 1 930N1-4805-PS03
- 2 RECT-46NBWP-R

Zone B

- 2 RECT-37SWP-R

Zone C

- 2 824-1228-A
- 2 RECT-79HWP-R/A
- 2 RECT-37SWP-R

Zone D

- 2 RECT-37SWP-R
- 2 780-1228-WP
- 1 930-FLASHER-12V

**Options**

/PRE Traffic preemption dual frequency

**SPECIFICATIONS**

**Clearing the Right of Way**

Zone A	Provided	Required
Upper	1,080,000	1,000,000
Lower	160,000	150,000

Zone B	Provided	Required
Upper	415,000	400,000
Lower	175,000	150,000

Zone C	Provided	Required
Upper	1,000,000	400,000
Lower	175,000	150,000

Zone D	Provided	Required
Upper	415,000	400,000
Lower	175,000	150,000

Average amperage: 32.8

**Blocking the Right of Way**

Zone A	Provided	Required
Upper	510,000	400,000
Lower	160,000	150,000

Zone B	Provided	Required
Upper	400,000	400,000
Lower	175,000	150,000

Zone C	Provided	Required
Upper	1,000,000	800,000
Lower	175,000	150,000

Zone D	Provided	Required
Upper	400,000	400,000
Lower	175,000	150,000

Average amperage: 30.55

**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-3 SYSTEM

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

**System:**

<u>Zone Placement</u>	<u>Qty.</u>	<u>Tomar Part #</u>	<u>Description</u>
Zone A - Upper	1	930N1-4805-PS03	930N1-4805-PS03 Red Lightbar 9 Lamps Total - 1 Halogen-Flasher, 2 Halogen-Flasher/Strobe as Follows: 1 Clear Halogen-Flasher - 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
Zone C - Upper	2	824-1228-A	824-1228-Amber Maxistrobe
	2	RECT-79HWP-R/A	RECT-79 Red/Amber Halogen-Flasher Waterproof Lamp
Zone A - Lower	2	RECT-46NBWP-R	RECT-46 Narrow 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-3 System is operated in the following modes:

For "Clearing the Right of Way"

Upper Level All of the lamps on the 930N1-4805-PS03 Lightbar operating in High Intensity with Clear Halogen-Flasher Takedown Lamps and Red/Amber Halogen-Flasher Alley Lamps operating.  
The 824-1228's operating in either Double or Multi Flash Mode.

Lower Level The 780-1228 Power Supplies operating in High Intensity, Normal Flash Rate.

For "Blocking the Right of Way"

Upper Level All of the lamps on the 930N1-4805-PS03 Lightbar operating in High Intensity with Clear Halogen-Flasher Takedown Lamps NOT operating, and Red/Amber Halogen-Flasher Alley Lamps operating.  
The 824-1228's operating in either Double or Multi Flash Mode.

Lower Level The 780-1228 Power Supplies operating in High Intensity, Normal Flash Rate.

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

- Red lamps may be substituted with Blue or Amber (if zone permissible).
- Optional length lightbars have been designed and may be used provided that the total amperage draw does not exceed NFPA guidelines. The lightbars are as follows: 930N1-5606-PS03, 930N1-6407-PS03, 930N1-7208-PS03, 930N1-8009-PS03, 930N1-8009-0053, 930N1-8009-0066, and 930N1-8810-PS03.
- The two 824-1228-Amber may be eliminated if the two RECT-79HWP-R/A are substituted with any two of the following: RECT-79HS-A or RECT-79SS-A.
- The two RECT-79HWP-R/A may be substituted with two RECT-79HSWP-R/A, two RECT-79SSWP-R/A, two RECT-79SWP-A, two RECT-HWP-A, two RECT-HSWP-A, or two RECT-79SSWP-A.

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

- The RECT-37SWP-Red may be substituted with any other zone permissible color(s).
- The RECT-37SWP-Red may be substituted with either a RECT-37SSWP or a RECT-79SWP.
- The use of Bezels (RECT-37-TSMF and RECT-79-TSMF) on Lower Level optical sources.
- The RECT-46NBWP-Red may be substituted with a RECT-46WBWP-Red or other zone permissible color(s).
- The RECT-46NBWP's may be substituted with RECT-37SWP or RECT-79SWP.
- 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 786-1228 Power Supply  
776-1228 Power Supply

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