



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

ORDERING INDEX

Catalog No. LADDER-3

Material List

Qty.	Item
Zone A	
2	465N-2402-LS03
2	RECT-46WBWP-R
Zone B	
1	465N-2402-LS03
2	RECT-37SWP-R
Zone C	
2	RECT-79SS-A
2	RECT-37SWP-R
Zone D	
1	465N-2402-LS03
2	RECT-37SWP-R
2	786-1228-WP

SPECIFICATIONS

Clearing the Right of Way

Zone A	Provided	Required
Upper	1,010,000	1,000,000
Lower	155,000	150,000

Zone B	Provided	Required
Upper	400,000	400,000
Lower	235,000	150,000

Zone C	Provided	Required
Upper	860,000	400,000
Lower	235,000	150,000

Zone D	Provided	Required
Upper	400,000	400,000
Lower	235,000	150,000

Average amperage: 34.0

Blocking the Right of Way

Zone A	Provided	Required
Upper	625,000	400,000
Lower	155,000	150,000

Zone B	Provided	Required
Upper	400,000	400,000
Lower	235,000	150,000

Zone C	Provided	Required
Upper	860,000	800,000
Lower	235,000	150,000

Zone D	Provided	Required
Upper	400,000	400,000
Lower	235,000	150,000

Average amperage: 36.0

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 LADDER-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	2	465N-2402-LS03	465N-2402-LS03 Lightbar Each Lightbar has 4 Strobe Lamps Total: 2 Red Strobes - Location DF and PF 2 Clear Strobes - 45 Degree Corners - Location DC and PC
Zone B - Upper	1	465N-2402-LS03	465N-2402-LS03 Lightbar 4 Strobe Lamps Total: 2 Red Strobes - Location DF and PF 2 Amber Strobes - 45 Degree Corners - Location DC and PC
Zone C - Upper	2	RECT-79SSWP-A	RECT-79SS-Amber Waterproof Strobe Lamp
Zone D - Upper	1	465N-2402-LS03	465N-2402-LS03 Lightbar 4 Strobe Lamps Total: 2 Red Strobes - Location DF and PF 2 Amber Strobes - 45 Degree Corners - Location DC and PC
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	786-1228-WP	786-1228 6 Head NEOBE® Waterproof Power Supply

Operating Description:

The TOMAR Ladder-3 System is operated in the following modes:

For "Clearing the Right of Way"

- Upper Level The Forward Facing (Zone A) 465N-2402-LS03 Lightbars all lamps operating in High Intensity. The Side Facing (Zone B & D) 465N-2402-LS03 Lightbars all lamps operating in High Intensity. The RECT-79SSWP-A Strobe amps operating in **Normal** (Neobe) Flash Rate, High Intensity.
- Lower Level All 786-1228 Power Supplies operating in **Pursuit** (Hyper) Flash Rate, High Intensity.

For "Blocking the Right of Way"

- Upper Level The Forward Facing (Zone A) 465N-2402-LS03 Lightbars, Red forward facing lamps operating in High Intensity, except Clear 45 degree corner lamps not operating. The Side Facing (Zone B & D) 465N-2402-LS03 Lightbars all lamps operating in High Intensity. The RECT-79SS-A Strobe lamps operating in **Normal** (Neobe) Flash Rate, High Intensity.
- Lower Level All 786-1228 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 Lightbar length may be increased to add additional strobes (with additional power supplies as needed) or Halogen lamps (with or without 925-Flasher-12V), provided that the additional amperage draw does not exceed NFPA guidelines.

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

1. The 786-1228 Power Supplies in the Lower Level may be operated in either Normal or Pursuit Flash Rate.
2. The RECT-37SWP-Red may be substituted with any other zone permissible color(s).
3. The RECT-37SWP-Red may be substituted with a RECT-79SWP-Red or any other zone permissible color(s).
4. The use of Bezels (RECT-37-TSMF and RECT-79-TSMF) on Lower Level optical sources.
5. The RECT-46WBWP-Red may be substituted with a RECT-46WBWP-Blue or any other zone permissible color(s).
6. The RECT-46WBWP's may be substituted with RECT-46NBWP's.
7. The RECT-46WBWP's may be substituted with RECT-37SWP's or RECT-79SWP's.
8. The 786-1228 Power Supply operating the Lower Level optical sources may be substituted with any of the following:
 - 772-1228 Power Supply
 - 770-1228 Power Supply
 - 776-1228 Power Supply
 - 782-1228 Power Supply
 - 780-1228 Power Supply

Provided that the NFPA Amperage Restrictions for the Fire Apparatus are not exceeded.

