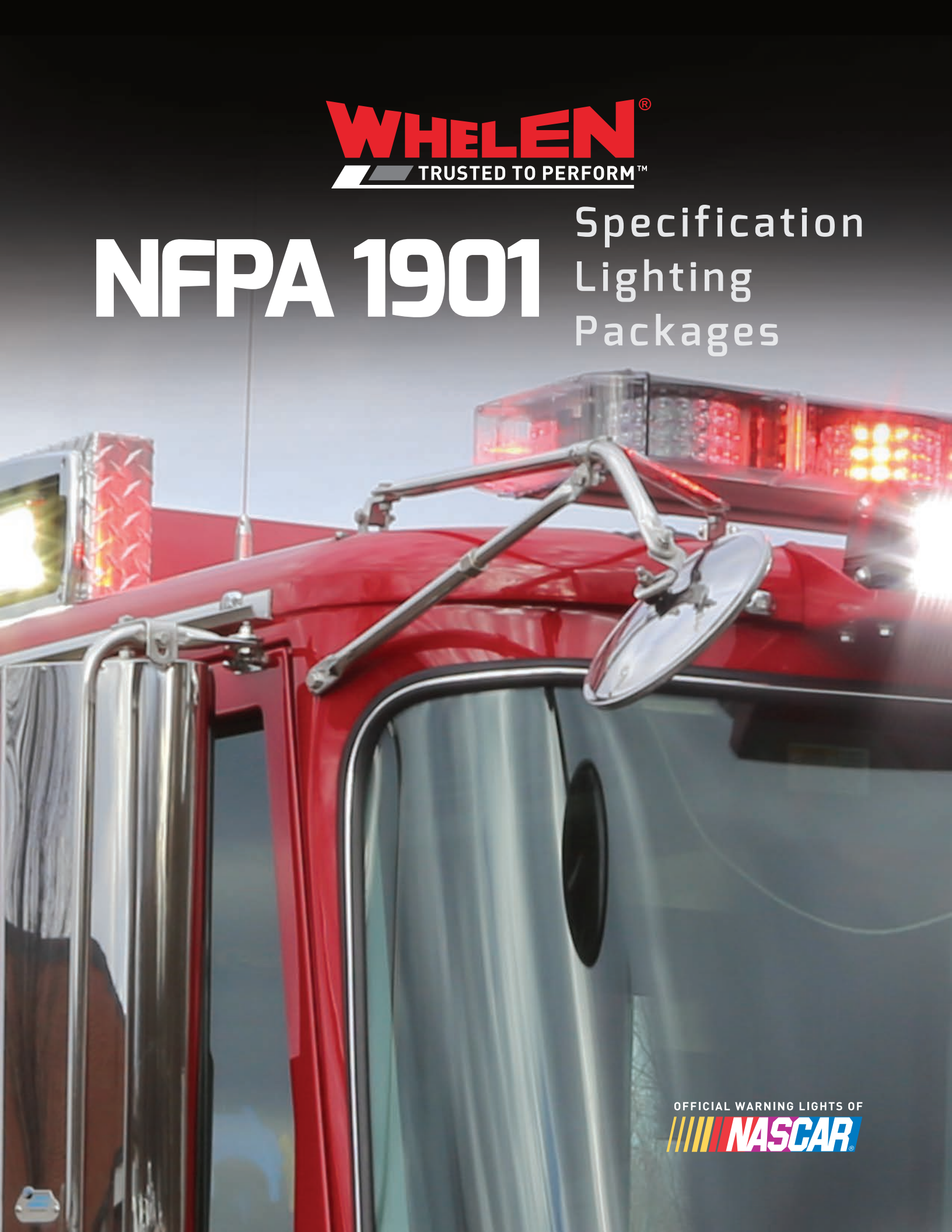
WHELEN®
TRUSTED TO PERFORM™

NFPA 1901 Specification Lighting Packages



OFFICIAL WARNING LIGHTS OF NASCAR®

Index

Components. 2-3
Specifications: Requirements & Measurements. 4-5
M Series Package for Vehicles Over 25' 6-7
M Series Package for Vehicles Under 25' 8-9
Hundred Series Package for Vehicles Over 25' 10-11
Hundred Series Package for Vehicles Under 25' 12-13
Sirens, Amplifiers & Speakers. 14-16
Product Amperage Draws 17
Lightbar Diagrams 18

All Whelen lighting features hard-coated lenses that minimize environmental damage from sand, salt, sun, and road chemicals.

All lightheads are surface mount.

NFPA Compliant Components

Lightbars

JENFPA 56" / J0NFPA 60"
JE2QNFPA 56" / JE0QNFPA 60"
Justice® Series
CON3™ Super-LED®

F4N2QLED 55" / F4N0QLED 60" / F4N7QLED 72"
F4N2VLED 55" / F4N0VLED 60" / F4N7VLED 72"
Freedom® IV Series
Linear Super-LED

Beacons

RB6T
Rotating Halogen

L31HRFN
Super-LED

R316RF
Rota-Beam™ Rotating
Super-LED

Combination Tailboard

May substitute lens colors in upper and lower level, specify color.

B6TRP
B6T Series
Rotating Halogen Upper
Super-LED Lower

B6MMRRP
B6LED Series
Super-LED Upper
and Lower

B63M7RR
B63 Series
Rota-Beam Rotating
Super-LED Upper
M7 Super-LED Lower

Mini Lightbars

FNMINI
Freedom IV
Linear Super-LED

JNMINI
Justice
CON3 Super-LED

Micro Edge®

MCFLED2R
Micro Freedom
Super-LED Lighthead

ION™

WIONSMCR
ION Wide-angle
Super-LED
with Chrome flange

I2CSMJ
ION DUO™
Interleaved Super-LED
with Chrome flange

ION / LIN3™ / LINZ6™

TLIR
ION T-Series™
Linear Super-LED
with Chrome flange

RSR02ZCR
LIN3 Series
Linear Super-LED

LINZ6R
LINZ6 Series
Linear Super-LED

V23 / Micron™

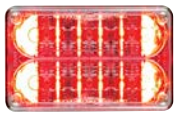
V23TPC
V-Series™
Super-LED Combination
Warning/Flood/Puddle

MCRNSCR
Micron™
Linear Super-LED
with Chrome flange

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

400 Series



40RR5SRR
400 Series
Linear Super-LED®

4V3R
400 V-Series™
Super-LED Combination
Warning/Flood/Puddle

500 Series

5V3R
500 V-Series
Super-LED Combination
Warning/Flood/Puddle

50R03ZRR
500 Series
TIR6™ Super-LED
requires mounting
option

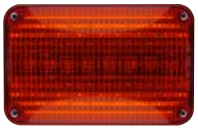
50R02ZRR
500 Series
Linear Super-LED
requires mounting
option

500 Series
Optional Surface Mounting

5GFLANGEC
Chrome flange

5FLANGEB
Black flange

600 Series



60R02FRR
600 Series
Linear Super-LED

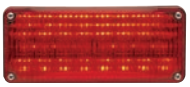
6RBR
600 Series
Rota-Beam™ Rotating
Super-LED

Headlight Mounting

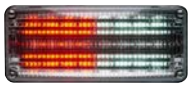
600 Series Lighthead
mounted in headlight cluster

M6 Series Lighthead
mounted in headlight cluster

700 Series



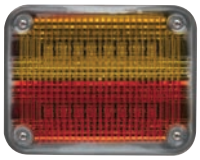
70R02FRR
700 Series
Linear Super-LED



70RC6FCR
700 Series
Linear Super-LED
Split Red/White

900 Series

90RR5FRR
900 Series
Linear Super-LED



90RA5FCR
900 Series
Linear Super-LED
split Red/Amber

90RC5FCR
900 Series
Linear Super-LED
split Red/White

M Series

M4R
M4 Series
Surface Mount
Linear Super-LED

M6R
M6 Series
Surface Mount
Linear Super-LED

M7R
M7 Series
Surface Mount
Linear Super-LED

M9R
M9 Series
Surface Mount
Linear Super-LED

M6V2R
V-Series
Super-LED Combination
Warning/Puddle

M9V2R
V-Series
Super-LED Combination
Warning/Scenelight

M Series

M92J
M9 DUO™
Linear Super-LED Interleaved

M9RCZ
M9 Combination
Warning/Scenelight

Note: Choosing one of the options listed in each zone is the minimum zone requirement that is needed to meet the NFPA 1901 Standard for Automotive Fire Apparatus 2009 Edition, Table 13.8.13.5 (Minimum Optical Power Requirements for Apparatus).
If additional lighting is needed to meet lower zone distance requirements only, Whelen offers a wide variety of lightheads to fit your needs.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

NFPA 1901 Lighting Specifications
Measurements Summary Sheet

How to Measure Lighting Specifications

EXAMPLE: Zone A Upper, Clearing the Right of Way Measurements.

1. Test all modules distributing light 45° right and 45° left at 5° increments (19 test points, total).

2. Add all 19 test points together for each module and add these modules together.

For example:
A rotating lamp has the same reading at all 19 points
(i.e. 120 candela seconds in Red) 19 x 120 = 2280.
There are four of these identical rotators in Zone A 4 x 2280 = 9120.
There is also one Clear rotator in Zone A that produces 600 candela. 19 x 600 x 1 = 11400.
Add 11400 to the four identical rotators (9120) for a total of 20520.
To convert to candela-second/minutes, multiply 20520 x 1.25 (Hz) x 60 (seconds).
The total is 1,539,000 candela-second/minutes.

3. There is a minimum requirement in Zone A for each of the 19 test points (10,000 candela-sec./min.).

For example: 20° left:
Four Red rotators produce 220 candela seconds at 20° and one Clear rotator produces 600 candela seconds at 20° for a total of 1080 candela seconds. Multiply 1080 by 1.25 (Hz) and multiply by 60 (seconds) for a total of 81,000 candela-second/minutes.

4. The final test requirement for this zone is to check 5° up and 5° down at all 19 test points.

The minimum requirement for these areas is 3500 candela-second/minutes.
For example: at 35° left, 5° down:
All four identical Red rotators get 40 candela seconds.
One Clear rotator gets 200 candela seconds.
40 x 4 + 200 x 1.25 (Hz) x 60 (seconds) equals 27,000 candela-second/minutes.

5. Other requirements to keep in mind:

For large & small apparatus photometric requirements & color requirements by zones see charts.

6. Load Management (refer to NFPA 1901 Standards Section 13.3.6).

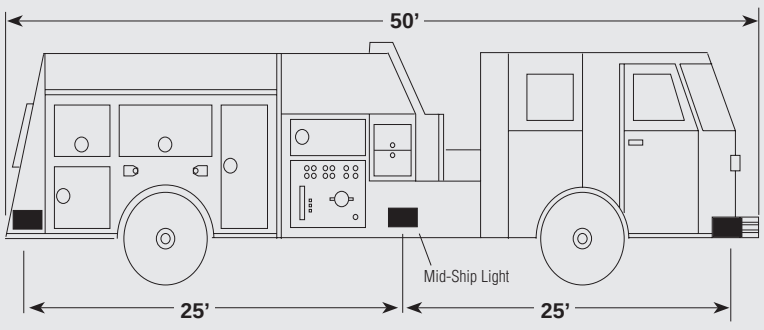
Often the electrical requirements of all appliances operating at the same time exceed the output capacity of the alternator. To prevent deep discharge of the vehicles batteries, appliance malfunction, or possible engine shut-down, it is required to automatically disconnect non-critical loads in order to equalize the alternator output capacity.
The purchaser and apparatus manufacturer must work together to determine the load management priority assigned to each piece of equipment on the apparatus. Certain equipment including the emergency lighting required to meet the minimum photometric zone requirements cannot be load managed, *additional emergency lighting equipment can be installed on the apparatus, however this equipment should be connected to an automatic load manager.*

How to determine the quantity of mid-ship lights needed to adequately light the lower B&D zones of large apparatus.

Additional mid-ship lights must be added so that you always maintain a horizontal distance of 25 feet or less between all centers of the lower level warning lights.

For example:
You have a piece of apparatus 50 feet long. In Zone B lower you are using 3 warning lights.
(1 front bumper area, 1 rear of the apparatus, and 1 mid-ship light in the center of the apparatus).

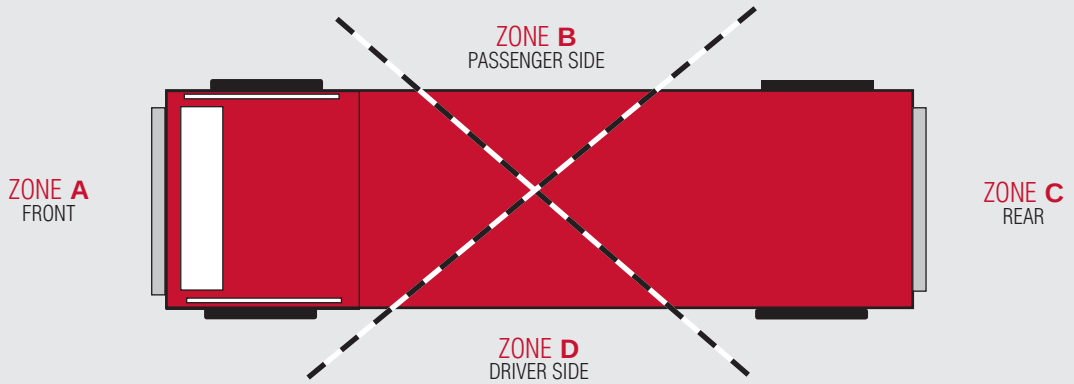
The distance from the mid-ship light to the front light or the rear light must not exceed a distance of 25 feet. As you can see, you will not exceed the 25 foot requirement from the mid-ship light to the front bumper light. If you exceed 25 feet, you must add an additional mid-ship light, for a total of four lower level lights.



© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

NFPA 1901 Lighting Specifications - Minimum requirements

The warning system is configured to have two operating modes.
Calling Right of Way (Responding) and Blocking Right of Way (At the Scene)



Large Apparatus - Greater than 25'

Large apparatus, defined as apparatus that has a bumper to bumper length of 25 feet or greater. Large apparatus has four (4) separate zones. Each of the four (4) zones are divided into an upper and lower level zones. In zone B, and D the lower level warning lights used cannot exceed a distance of 25 feet between the centers of adjacent lower level optical warning devices. If the optical warning devices exceed 25 feet, additional mid-ship optical devices are required. Refer to the NFPA 1901 Standard for Automotive Fire Apparatus 2009 Edition, Chapter 13 Low Voltage Electrical Systems and Warning Devices.

		CALLING FOR RIGHT OF WAY			BLOCKING RIGHT OF WAY		
ZONE	LEVEL	H	ANY H POINT	+/-5 ANY H	H	ANY H POINT	+/-5 ANY H
A	Upper	1,000,000	10,000	3,500	400,000	10,000	3,500
	Lower	150,000	3,750	1,300	150,000	3,750	1,300
B	Upper	400,000	10,000	3,500	400,000	10,000	3,500
	Lower	150,000	3,750	1,300	150,000	3,750	1,300
C	Upper	400,000	10,000	3,500	800,000	10,000	3,500
	Lower	150,000	3,750	1,300	150,000	3,750	1,300
D	Upper	400,000	10,000	3,500	400,000	10,000	3,500
	Lower	150,000	3,750	1,300	150,000	3,750	1,300

NOTE: All values are in candela-seconds/minute. H= Horizontal plane passing through the optical center.

COLOR	CALLING FOR RIGHT OF WAY	BLOCKING RIGHT OF WAY
Red	Any Zone	Any Zone
Blue		
Amber	Any Zone except A FRONT	
White	Any Zone except C REAR	Not Permitted Any Zone

Small Apparatus - Less than 25'

Small apparatus, defined as apparatus that has a bumper to bumper length of 25 feet or less. Small apparatus has four (4) separate zones. Each of the four (4) zones combined upper and lower level zones as one zone. Refer to the NFPA 1901 Standard for Automotive Fire Apparatus 2009 Edition, Chapter 13 Low Voltage Electrical Systems and Warning Devices.

		CALLING FOR RIGHT OF WAY			BLOCKING RIGHT OF WAY		
ZONE	LEVEL	H	ANY H POINT	+/-5 ANY H	H	ANY H POINT	+/-5 ANY H
A	Upper & Lower Combined	1,000,000	10,000	3,500	400,000	10,000	3,500
B		200,000	8,000		200,000	8,000	
C		400,000	10,000		800,000	10,000	
D		200,000	8,000		200,000	8,000	

NOTE: All values are in candela-seconds/minute. H= Horizontal plane passing through the optical center.

COLOR	CALLING FOR RIGHT OF WAY	BLOCKING RIGHT OF WAY
Red	Any Zone	Any Zone
Blue		
Amber	Any Zone except A FRONT	
White	Any Zone except C REAR	Not Permitted Any Zone

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

M Series Package for Vehicles Over 25'

ZONE A UPPER - *Choose 1 option* - *Zone Photometric Requirement- 1,000,000 CSM*

Options	Qty.	Series	Model	Size	Configuration	Corners	Inboard	Lens	Description
❑ Option 1	Pair	Mini Freedom® IV	F4NMINI	22" (56cm)	Front Facing	4 Red Linear-LED®	4 White and 2 Red Linear-LEDs in Outside Endcap	Clear	For Aerial Vehicles Only
❑ Option 2		Mini Justice®	JNMINI		Front Facing	4 Red Linear-LED	2 Red, 2 White CON3™ Super-LEDs		
❑ Option 3	One	Freedom IV	F4N2QLED	55" (140cm)	Square	2 Red Linear-LED	2 Red Endcap Linear-LEDs 2 Red Linear-LEDs 2 White Linear-LEDs		For All Vehicles
❑ Option 4			F4N0QLED	60" (152cm)					
❑ Option 5			F4N7QLED	72" (183cm)					
❑ Option 6			F4N2VLED	55" (140cm)	Angled	4 Red Linear-LED	2 Red Linear-LEDs 2 White Linear-LEDs		
❑ Option 7			F4N0VLED	60" (152cm)					
❑ Option 8			F4N7VLED	72" (183cm)					
❑ Option 9		Justice	JE2NFPA	56" (142cm)	Angled	4 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs		
❑ Option 10			JE0NFPA	62" (157cm)					
❑ Option 11			JE2QNFPA	56" (142cm)	Square	2 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs 2 Red CON3 Super-LED in Endcap		
❑ Option 12			JE0QNFPA	62" (157cm)					

ZONE A LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED®	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M6		2 Red
❑ Option 6			1 Red, 1 Blue
❑ Option 7	M4		2 Split Red/White

Options	Series	Lighthead Description	Color
❑ Option 8	M4	M Series Linear Super-LED	2 Split Red/Blue
❑ Option 9	M7		2 Split Red/White
❑ Option 10			2 Split Red/Blue
❑ Option 11	M6		2 Split Red/White
❑ Option 12			2 Split Red/Blue
❑ Option 13	M6V	M6 V-Series™ Super-LED	2 Red

ZONE B UPPER - *Zone Photometric Requirement- 400,000 CSM*

Zone B Upper Front is covered by the lights from the Rear or Side of the Lightbar from Zone A Upper
Zone B Upper Rear is covered by one of the options chosen from Zone C Upper

ZONE B LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M6		2 Red
❑ Option 6			1 Red, 1 Blue
❑ Option 7	M4		2 Split Red/White
❑ Option 8			2 Split Red/Blue
❑ Option 9			2 Split Red/Amber

Options	Series	Lighthead Description	Color
❑ Option 10	M7	M Series Linear Super-LED	2 Split Red/White
❑ Option 11			2 Split Red/Blue
❑ Option 12			2 Split Red/Amber
❑ Option 13	M6		2 Split Red/White
❑ Option 14			2 Split Red/Blue
❑ Option 15			2 Split Red/Amber
❑ Option 16	M6V	M6 V-Series Super-LED	2 Red

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

ZONE C UPPER - *Choose 1 option* - *Zone Photometric Requirement- 800,000 CSM*

Options	Series	Description	Color
❑ Option 1	R316	Rota-Beam™ Super-LED® Beacons	2 Red
❑ Option 2	RB6	Rotating Halogen Beacons	2 Red
❑ Option 3	B6T	Halogen Rotating Beacon, Upper, 700 Series Super-LED Lighthead, Lower	2 Red
❑ Option 4	B63	Rota-Beam Super-LED Beacon, Upper M7 Super-LED Lighthead, Lower	2 Red
❑ Option 5	Micro	Micro Freedom® Super-LED Lightheads	2 Red
❑ Option 6	L31	Super-LED Beacons	2 Red
❑ Option 7	B6LED	L31 Super-LED Beacon, Upper, 700 Series Super-LED Lighthead, Lower	2 Red
❑ Option 8	M7	M Series Linear Super-LED Lightheads	2 Red

Options	Series	Lighthead Description	Color
❑ Option 9	M6	M Series Linear Super-LED	2 Red
❑ Option 10	M9		2 Red
❑ Option 11			1 Red, 1 Amber
❑ Option 12			1 Red, 1 Blue
❑ Option 13	M6		1 Red, 1 Amber
❑ Option 14			1 Red, 1 Blue
❑ Option 15	M9	M9 V-Series™ Super-LED	2 Red
❑ Option 16		Combination Warning/Scene light	2 Red
❑ Option 17		DUO™ Linear Interleaved Super-LED	2 Red/Blue

ZONE C LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M6		2 Red
❑ Option 6			1 Red, 1 Blue
❑ Option 7	M4		2 Split Red/White

Options	Series	Lighthead Description	Color
❑ Option 8	M4	M Series Linear Super-LED	2 Split Red/Blue
❑ Option 9	M7		2 Split Red/White
❑ Option 10			2 Split Red/Blue
❑ Option 11	M6		2 Split Red/White
❑ Option 12			2 Split Red/Blue
❑ Option 13	M6V	M6 V-Series Super-LED	2 Red

ZONE D UPPER - *Zone Photometric Requirement- 400,000 CSM*

Zone D Upper Front is covered by the lights from the Rear or Side of the Lightbar from Zone A Upper
Zone D Upper Rear is covered by one of the options chosen from Zone C Upper

ZONE D LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M6		2 Red
❑ Option 6			1 Red, 1 Blue
❑ Option 7	M4		2 Split Red/White
❑ Option 8			2 Split Red/Blue
❑ Option 9			2 Split Red/Amber

Options	Series	Lighthead Description	Color
❑ Option 10	M7	M Series Linear Super-LED	2 Split Red/White
❑ Option 11			2 Split Red/Blue
❑ Option 12			2 Split Red/Amber
❑ Option 13	M6		2 Split Red/White
❑ Option 14			2 Split Red/Blue
❑ Option 15			2 Split Red/Amber
❑ Option 16	M6V	M6 V-Series Super-LED	2 Red

This package meets all zone requirements of NFPA 1901 specifications.

CERTIFICATE OF COMPLIANCE WITH NFPA 1901

To Meet Certification, Check Box for the Option Chosen in Each Appropriate Zone

Note: This system is tested and certified by Whelen Engineering Company, Inc. to meet all requirements for the NFPA 1901 Standards for Automotive Fire Apparatus (2014 Edition). See Chapter 13 titled: Low Voltage Electrical Systems & Warning Devices. This System is Certified only if all optical and electrical warning devices are installed and wired in accordance to the 1901 Standard and Specifications; and also in accordance to the device manufacturers mounting and wiring specifications.

FIRE DEPARTMENT

TRUCK NUMBER

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

M Series Package for Vehicles Under 25'

Zone A - UPPER and LOWER Combined - *Zone Photometric Requirement- 1,000,000 CSM*

Choose 1 option for Upper Zone A

Options	Qty.	Series	Model	Size	Configuration	Corners	Inboard	Lens	Description
❑ Option 1	Pair	Mini Freedom® IV	F4NMINI	22" (56cm)	Front Facing	4 Red Linear-LED®	4 White and 2 Red Linear-LEDs in Outside Endcap	Clear	For all Vehicles
❑ Option 2		Mini Justice®	JNMINI		Front Facing	4 Red Linear-LED	2 Red, 2 White CON3™ Super-LEDs		
❑ Option 3	One	Freedom IV	F4N2QLED	55" (140cm)	Square	4 Red Linear-LED	2 Red Endcap Linear-LEDs 2 Red Linear-LEDs 2 White Linear-LEDs		
❑ Option 4			F4N2VLED	55" (140cm)	Angled	4 Red Linear-LED	2 Red Linear-LEDs 2 White Linear-LEDs		
❑ Option 5		Justice	JE2NFPA	56" (142cm)	Angled	4 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs		
❑ Option 6			JE2QNFPA	56" (142cm)	Square	2 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs 2 Red CON3 Super-LED in Endcap		

Choose 1 option for Lower Zone A

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED®	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M4		2 Split Red/White

Options	Series	Lighthead Description	Color
❑ Option 6	M4	M Series Linear Super-LED Lightheads	2 Split Red/Blue
❑ Option 7	M7		2 Split Red/White
❑ Option 8			2 Split Red/Blue
❑ Option 9	M6V	M6 V-Series™ Super-LED Lightheads	2 Red

Zone B - UPPER and LOWER Combined - *Zone Photometric Requirement- 200,000 CSM*

Choose 1 option for Upper or Lower Zone B

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M4		2 Split Red/White
❑ Option 6			2 Split Red/Blue
❑ Option 7	M7		2 Split Red/White
❑ Option 8			2 Split Red/Blue

Options	Series	Lighthead Description	Color
❑ Option 9	M6V	M6 V-Series Super-LED	2 Red
❑ Option 10	ION™	ION DUO™ Linear Interleaved Super-LED	2 Red/Blue
❑ Option 11	Micron™	Micron Linear Super-LED	2 Red
❑ Option 12	ION	ION T-Series™ Linear Super-LED	2 Red

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

ZONE C - UPPER and LOWER Combined - *Zone Photometric Requirement- 800,000 CSM*

Choose 1 option for Upper or Lower Zone C

Options	Series	Description	Color
❑ Option 1	R316	Rota-Beam™ Super-LED® Beacons	2 Red
❑ Option 2	RB6	Rotating Halogen Beacons	2 Red
❑ Option 3	Micro	Micro Freedom® Super-LED Lightheads	2 Red
❑ Option 4	L31	Super-LED Beacons	2 Red
❑ Option 5	M7	M Series Linear Super-LED Lightheads	2 Red
❑ Option 6	M6		2 Red

Options	Series	Lighthead Description	Color
❑ Option 7	M9	M Series Linear Super-LED Lightheads	2 Red
❑ Option 8			1 Red, 1 Amber
❑ Option 9	M6		1 Red, 1 Amber
❑ Option 10			1 Red, 1 Blue
❑ Option 11	M9	M9 V-Series™ Super-LED	2 Red
❑ Option 12		Combination Warning/Scene light	2 Red
❑ Option 13		DUO™ Linear Super-LED Interleaved	2 Red/Blue

Zone D - UPPER and LOWER Combined - *Zone Photometric Requirement- 200,000 CSM*

Choose 1 option for Upper or Lower Zone D

Options	Series	Lighthead Description	Color
❑ Option 1	M4	M Series Linear Super-LED	2 Red
❑ Option 2			1 Red, 1 Blue
❑ Option 3	M7		2 Red
❑ Option 4			1 Red, 1 Blue
❑ Option 5	M4		2 Split Red/White
❑ Option 6			2 Split Red/Blue
❑ Option 7			2 Split Red/Amber

Options	Series	Lighthead Description	Color
❑ Option 8	M7	M Series Linear Super-LED	2 Split Red/White
❑ Option 9			2 Split Red/Blue
❑ Option 10			2 Split Red/Amber
❑ Option 11	M6V	M6 V-Series Super-LED	2 Red
❑ Option 12	M9	Combination Warning/Scene light	2 Red
❑ Option 13		DUO Linear Super-LED Interleaved	2 Red/Blue

This package meets all zone requirements of NFPA 1901 specifications.

CERTIFICATE OF COMPLIANCE WITH NFPA 1901

To Meet Certification, Check Box for the Option Chosen in Each Appropriate Zone

Note: This system is tested and certified by Whelen Engineering Company, Inc. to meet all requirements for the NFPA 1901 Standards for Automotive Fire Apparatus (2014 Edition). See Chapter 13 titled: Low Voltage Electrical Systems & Warning Devices. This System is Certified only if all optical and electrical warning devices are installed and wired in accordance to the 1901 Standard and Specifications; and also in accordance to the device manufacturers mounting and wiring specifications.

FIRE DEPARTMENT _____

TRUCK NUMBER _____

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

Hundred Series Package for Vehicles Over 25'

ZONE A UPPER - *Choose 1 option* - *Zone Photometric Requirement- 1,000,000 CSM*

Options	Qty.	Series	Model	Size	Configuration	Corners	Inboard	Lens	Description
❑ Option 1	Pair	Mini Freedom® IV	F4NMINI	22" (56cm)	Front Facing	4 Red Linear-LED®	4 White and 2 Red Linear-LEDs in Outside Endcap	Clear	For Aerial Vehicles Only
❑ Option 2		Mini Justice®	JNMINI		Front Facing	4 Red Linear-LED	2 Red, 2 White CON3™ Super-LEDs		
❑ Option 3	One	Freedom IV	F4N2QLED	55" (140cm)	Square	2 Red Linear-LED	2 Red Endcap Linear-LEDs 2 Red Linear-LEDs 2 White Linear-LEDs		For All Vehicles
❑ Option 4			F4N0QLED	60" (152cm)					
❑ Option 5			F4N7QLED	72" (183cm)					
❑ Option 6			F4N2VLED	55" (140cm)	Angled	4 Red Linear-LED	2 Red Linear-LEDs 2 White Linear-LEDs		
❑ Option 7			F4N0VLED	60" (152cm)					
❑ Option 8			F4N7VLED	72" (183cm)					
❑ Option 9		Justice	JE2NFPA	56" (142cm)	Angled	4 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs		
❑ Option 10			JE0NFPA	62" (157cm)					
❑ Option 11			JE2QNFPA	56" (142cm)	Square	2 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs 2 Red CON3 Super-LED in Endcap		
❑ Option 12			JE0QNFPA	62" (157cm)					

ZONE A LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED®	2 Red
❑ Option 2		V-Series™ Super-LED	2 Red
❑ Option 3	500*	TIR6™ Super-LED	2 Red
❑ Option 4		Linear Super-LED	2 Red
❑ Option 5	V23	V-Series Super-LED	2 Red
❑ Option 6	500	V-Series Super-LED	2 Red

Options	Series	Lighthead Description	Color
❑ Option 7	600	Linear Super-LED Flashers	2 Red
❑ Option 8		Rota-Beam™ Rotating Super-LED	2 Red
❑ Option 9	700	Linear Super-LED Flashers	2 Red
❑ Option 10	LINZ6™	Linear Super-LED	2 Red
❑ Option 11	LIN3™	Linear Super-LED	2 Red
❑ Option 12	ION™	Wide-angle Linear Super-LED	2 Red

* Requires optional flange purchased separately

ZONE B UPPER - *Zone Photometric Requirement- 400,000 CSM*

Zone B Upper Front is covered by the lights from the Rear or Side of the Lightbar from Zone A Upper
Zone B Upper Rear is covered by one of the options chosen from Zone C Upper

ZONE B LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED	2 Red
❑ Option 2		V-Series Super-LED	2 Red
❑ Option 3	500*	TIR6 Super-LED	2 Red
❑ Option 4		Linear Super-LED	2 Red
❑ Option 5	V23	V-Series Super-LED	2 Red
❑ Option 6	600	Linear Super-LED Flashers	2 Red
❑ Option 7		Rota-Beam Rotating Super-LED	2 Red
❑ Option 8	700	Linear Super-LED Flashers	2 Red

Options	Series	Lighthead Description	Color
❑ Option 9	700	Linear Super-LED Flashers	2 split Red/White
❑ Option 10	LINZ6	Linear Super-LED	2 Red
❑ Option 11	LIN3	Linear Super-LED	2 Red
❑ Option 12	ION	Wide-angle Linear Super-LED	2 Red
❑ Option 13		ION DUO™ Linear Interleaved Super-LED	2 Red/Blue
❑ Option 14	Micron™	Micron Linear Super-LED	2 Red
❑ Option 15	ION	ION T-Series™ Linear Super-LED	2 Red

* Requires optional flange purchased separately

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

ZONE C UPPER - *Choose 1 option* - *Zone Photometric Requirement- 800,000 CSM*

Options	Series	Description	Color
❑ Option 1	R316	Rota-Beam™ Rotating Super-LED® Beacons	2 Red
❑ Option 2	RB6	Rotating Halogen Beacons	2 Red
❑ Option 3	B6T	Halogen Rotating Beacon, Upper, 700 Series Super-LED Flashing Lighthead, Lower	2 Red
❑ Option 4	B63	Rota-Beam Rotating Super-LED Beacon, Upper M7 Super-LED Lighthead, Lower	2 Red
❑ Option 5	400	Linear Super-LED Lightheads	2 Red

Options	Series	Description	Color
❑ Option 6	900	Linear Super-LED Lightheads	2 Red
❑ Option 7	Micro	Micro Freedom® Super-LED Lightheads	2 Red
❑ Option 8	L31	Super-LED Beacons	2 Red
❑ Option 9	B6LED	L31 Super-LED Beacon, Upper, 700 Series Super-LED Flashing Lighthead, Lower	2 Red

ZONE C LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED	2 Red
❑ Option 2		V-Series™ Super-LED	2 Red
❑ Option 3	500*	TIR6™ Super-LED	2 Red
❑ Option 4		Linear Super-LED	2 Red
❑ Option 5	V23	V-Series Super-LED	2 Red
❑ Option 6	500	V-Series Super-LED	2 Red

Options	Series	Lighthead Description	Color
❑ Option 7	600	Linear Super-LED Flashers	2 Red
❑ Option 8		Rota-Beam Rotating Super-LED	2 Red
❑ Option 9	700	Linear Super-LED Flashers	2 Red
❑ Option 10	LINZ6™	Linear Super-LED	2 Red
❑ Option 11	LIN3™	Linear Super-LED	2 Red
❑ Option 12	ION™	Wide-angle Linear Super-LED	2 Red

* Requires optional flange purchased separately

ZONE D UPPER - *Zone Photometric Requirement- 400,000 CSM*

Zone B Upper Front is covered by the lights from the Rear or Side of the Lightbar from Zone A Upper
Zone B Upper Rear is covered by one of the options chosen from Zone C Upper

ZONE D LOWER - *Choose 1 option* - *Zone Photometric Requirement- 150,000 CSM*

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED	2 Red
❑ Option 2		V-Series Super-LED	2 Red
❑ Option 3	500*	TIR6 Super-LED	2 Red
❑ Option 4		Linear Super-LED	2 Red
❑ Option 5	V23	V-Series Super-LED	2 Red
❑ Option 6	600	Linear Super-LED Flashers	2 Red
❑ Option 7		Rota-Beam Rotating Super-LED	2 Red
❑ Option 8	700	Linear Super-LED Flashers	2 Red

Options	Series	Lighthead Description	Color
❑ Option 9	700	Linear Super-LED Flashers	2 split Red/White
❑ Option 10	LINZ6	Linear Super-LED	2 Red
❑ Option 11	LIN3	Linear Super-LED	2 Red
❑ Option 12	ION	Wide-angle Linear Super-LED	2 Red
❑ Option 13		ION DUO™ Interleaved Linear Super-LED	2 Red/Blue
❑ Option 14	Micron™	Micron Linear Super-LED	2 Red
❑ Option 15	ION	ION T-Series™ Linear Super-LED	2 Red

* Requires optional flange purchased separately

This package meets all zone requirements of NFPA 1901 specifications.

CERTIFICATE OF COMPLIANCE WITH NFPA 1901

To Meet Certification, Check Box for the Option Chosen in Each Appropriate Zone

Note: This system is tested and certified by Whelen Engineering Company, Inc. to meet all requirements for the NFPA 1901 Standards for Automotive Fire Apparatus (2014 Edition). See Chapter 13 titled: Low Voltage Electrical Systems & Warning Devices. This System is Certified only if all optical and electrical warning devices are installed and wired in accordance to the 1901 Standard and Specifications; and also in accordance to the device manufacturers mounting and wiring specifications.

FIRE DEPARTMENT

TRUCK NUMBER

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

Hundred Series Package for Vehicles Under 25'

Zone A - UPPER and LOWER Combined - *Zone Photometric Requirement- 1,000,000 CSM*

Choose 1 option for Upper Zone A

Options	Qty.	Series	Model	Size	Configuration	Corners	Inboard	Lens	Description
❑ Option 1	Pair	Mini Freedom® IV	F4NMINI	22" (56cm)	Front Facing	4 Red Linear-LED®	4 White and 2 Red Linear-LEDs in Outside Endcap	Clear	For all Vehicles
❑ Option 2		Mini Justice®	JNMINI		Front Facing	4 Red Linear-LED	2 Red, 2 White CON3™ Super-LEDs		
❑ Option 3	One	Freedom IV	F4N2QLED	55" (140cm)	Square	4 Red Linear-LED	2 Red Endcap Linear-LEDs 2 Red Linear-LEDs 2 White Linear-LEDs		
❑ Option 4			F4N2VLED	55" (140cm)	Angled	4 Red Linear-LED	2 Red Linear-LEDs 2 White Linear-LEDs		
❑ Option 5		Justice	JE2NFPA	56" (142cm)	Angled	4 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs		
❑ Option 6			JE2QNFPA	56" (142cm)	Square	2 Red Linear-LED	4 Red CON3 Super-LEDs 2 White CON3 Super-LEDs 2 Red CON3 Super-LED in Endcap		

Choose 1 option for Lower Zone A

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED®	2 Red
❑ Option 2		V-Series™ Super-LED	2 Red
❑ Option 3	500*	TIR6™ Super-LED	2 Red
❑ Option 4		Linear Super-LED	2 Red
❑ Option 5	V23	V-Series Super-LED	2 Red

Options	Series	Lighthead Description	Color
❑ Option 6	600	Linear Super-LED Flashers	2 Red
❑ Option 7		Rota-Beam™ Rotating Super-LED	2 Red
❑ Option 8	700	Linear Super-LED Flashers	2 Red
❑ Option 9		Linear Super-LED Flashers	2 split Red/White
❑ Option 10	LINZ6™	Linear Super-LED	2 Red
❑ Option 11	ION™	Wide-angle Linear Super-LED	2 Red

Zone B - UPPER and LOWER Combined - *Zone Photometric Requirement- 200,000 CSM*

Zone B Upper Front is covered by the lights from the Rear or Side of the Lightbar from Zone A upper Plus One of the Options Below:

Choose 1 option for Upper or Lower Zone B

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED	2 Red
❑ Option 2		V-Series Super-LED	2 Red
❑ Option 3	V23	V-Series Super-LED	2 Red
❑ Option 4	500	TIR6 Super-LED	3 Red
❑ Option 5		Linear Super-LED	3 Red
❑ Option 6	600	Linear Super-LED Flashers	2 Red
❑ Option 7		Rota-Beam Rotating Super-LED	2 Red

Options	Series	Lighthead Description	Color
❑ Option 8	700	Linear Super-LED Flashers	2 Red
❑ Option 9		Linear Super-LED Flashers	2 split Red/White
❑ Option 10	900	Linear Super-LED Flashers	2 Red
❑ Option 11	LINZ6	Linear Super-LED	2 Red
❑ Option 12	ION	Wide-angle Linear Super-LED	2 Red
❑ Option 13		ION DUO™ Interleaved Super-LED Lightheads	2 Red/Blue
❑ Option 14	Micron™	Micron Super-LED Lightheads	2 Red
❑ Option 15	ION	ION T-Series™ Super-LED Lightheads	2 Red

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

ZONE C - UPPER and LOWER Combined - *Zone Photometric Requirement- 800,000 CSM*

Choose 1 option for Upper or Lower Zone C

Options	Series	Description	Color
❑ Option 1	R316	Rota-Beam™ Rotating Super-LED® Beacons	2 Red
❑ Option 2	RB6	Rotating Halogen Beacons	2 Red
❑ Option 3	400	Linear Super-LED Lightheads	2 Red
❑ Option 4	500*	TIR6™ Super-LED Lightheads	4 Red
❑ Option 5		Linear Super-LED Lightheads	4 Red

* Requires optional flange purchased separately

Options	Series	Description	Color
❑ Option 6	600	Linear Super-LED Flashing Lightheads	2 Red
❑ Option 7		Rota-Beam Rotating Super-LED Lightheads	2 Red
❑ Option 8	900	Linear Super-LED Lightheads	2 Red
❑ Option 9	Micro	Micro Freedom® Super-LED Lightheads	2 Red
❑ Option 10	L31	Super-LED Beacons	2 Red
❑ Option 11	LINZ6™	Linear Super-LED Lightheads	2 Red

Zone D - UPPER and LOWER Combined - *Zone Photometric Requirement- 200,000 CSM*

Zone D Upper Front is covered by the lights from the Rear or Side of the Lightbar from Zone A upper

Choose 1 option for Upper or Lower Zone D

Options	Series	Lighthead Description	Color
❑ Option 1	400	Linear Super-LED	2 Red
❑ Option 2	500*	TIR6 Super-LED	4 Red
❑ Option 3		TIR6 Super-LED	3 Red
❑ Option 4		Linear Super-LED	3 Red
❑ Option 5	600	Linear Super-LED Flashers	2 Red

* Requires optional flange purchased separately

Options	Series	Lighthead Description	Color
❑ Option 6	700	Linear Super-LED Flashers	2 Red
❑ Option 7	LINZ6™	Linear Super-LED	2 Red
❑ Option 8	ION™	ION DUO™ Linear Interleaved Super-LED	2 Red/Blue
❑ Option 9	Micron™	Micron Linear Super-LED	2 Red
❑ Option 10	ION	ION T-Series™ Linear Super-LED	2 Red

This package meets all zone requirements of NFPA 1901 specifications.

CERTIFICATE OF COMPLIANCE WITH NFPA 1901

To Meet Certification, Check Box for the Option Chosen in Each Appropriate Zone

Note: This system is tested and certified by Whelen Engineering Company, Inc. to meet all requirements for the NFPA 1901 Standards for Automotive Fire Apparatus (2009 Edition). See Chapter 13 titled: Low Voltage Electrical Systems & Warning Devices. This System is Certified only if all optical and electrical warning devices are installed and wired in accordance to the 1901 Standard and Specifications; and also in accordance to the device manufacturers mounting and wiring specifications.

FIRE DEPARTMENT _____

TRUCK NUMBER _____

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

Enhance your NFPA 1901 Packages

295 SERIES SIREN AMPLIFIERS

All 295 Series Sirens meet and exceed California Title XIII.
295 Sirens all feature three siren warning tones, plus Airhorn, Public Address and Hands-Free operation, Diagnostix™ & SI TEST®. 5 year warranty on most models.

295SLSA1.... Single unit, 17 Scan-Lock™ siren tones, hard-wired microphone

295HFS2..... Full function remote siren amplifier, flush mount

295HFSA5 ... 9-switch light control, low current switching, park kill, time out relay

295SLSA6.... Single unit, 9-switch light control, standard switching, 17 Scan-Lock siren tones, removable microphone

295HFSA7 ... Remote dual tone, flush mount

295HFSC9 ... Self-contained, dual or mono, 8 programmable profiles, removable microphone

295SL100..... Full function, up to two 100 watt speakers, heavy-duty microphone, 17 Scan-Lock siren tones, 2 year warranty

295SL101..... Full function, up to two 100 watt speakers, heavy-duty plug-in microphone, 17 Scan-Lock siren tones, 2 year warranty

295SLSA1

295HFS2

295HFSA5

295SLSA6

295HFSA7

295HFSA9

295SL100

295SL101

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

Enhance your NFPA 1901 Packages

100 WATT RMS SIREN SPEAKERS

For bumper and flange mounting, Projector® Series speakers produce 122.5dB, exceeding California Title XIII, Class A (120dB @ 10') and S.A.E. J1849 when used with Whelen 295HFS Series.

SA31I01D..... 100 watt speaker for driver side of 2001 to present International® Series chassis

SA31I01P..... 100 watt speaker for passenger side of 2001 to present International Series chassis

SA31I01P

SA314 , SA315 and NEW SA316P

SA314A..... 100 watt compact speaker for behind bumper mounting, natural aluminum

SA315P..... 100 watt compact speaker for behind bumper mounting, Black nylon composite

SA316P..... 100 watt compact speaker for behind bumper mounting, Black nylon composite

SA314A

Mounting Brackets

SAK1..... Universal Mount Kit

SAK23..... Ford Expedition, 2007-2017

SAK24..... Chevy Suburban/Silverado, 2007-2013

SAK25..... Chevy Express Van, 2006-2016

SAK32..... Ford E350/E450, 2008-2016, passenger or driver side

SAK40..... Ford F-250/F-350, 2011-2016, passenger side

SAK41..... Ford F-250/F-350, 2011-2016, driver side

SAK42..... Dodge 4500, 2011-2016, passenger side

SAK43..... Dodge 4500, 2011-2016, driver side

SAK44..... Ford Police Interceptor Utility, 2011-2017

SAK47..... Dodge Ram 1500, 2012-2017, passenger side

SAK48..... Dodge Ram 1500, 2012-2017, driver side

SAK49..... Chevy Silverado 1500/GMC 1500, 2014-2016, passenger side

SAK50..... Chevy Silverado 1500/GMC 1500, 2014-2016, driver side

SAK51..... Ford Police Interceptor Utility, 2011-2017, passenger side

SAK52..... Ford Police Interceptor Utility, 2011-2017, driver side

SAK54..... Dodge Durango, 2013-2017

SAK55..... Chevy Suburban/Tahoe, 2015-2017 passenger side

SAK56..... Chevy Suburban/Tahoe, 2015-2017, driver side

SAK57..... Ford F-150, 2015-2017

SAK61D ..... Ford F-250/F-350, 2017 without factory headlight, driver side

SAK61P ..... Ford F-250/F-350, 2017 without factory headlight, passenger side

SA315P

SA316P

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

Enhance your NFPA 1901 Packages

ALPHA SIREN AMPLIFIERS

Economy priced ALPHA Sirens deliver 100 or 200 watts of siren warning power, HANDS-FREE operation, multiple warning tones and horn ring over-ride capability

ALPHA12R... 100 watt remote siren amplifier, remote switches purchased separately

ALPHA12R

HOWLER™ LOW FREQUENCY TONE SIREN

Adding a layer of warning for intersections and high risk areas when used with your 100/200 watt siren amplifier, Howler provides deep tones to penetrate other vehicles, alerting drivers and pedestrians of your approach. Includes 8 different tone durations. Includes siren amplifier and two speakers. Works in conjunction with existing siren systems (purchased separately)

HOWLER ..... Siren amplifier with two speakers and vehicle specific mounting bracket

Mounting Brackets

HWLRB2 ..... Ford Expedition, 2008-20017

HWLRB4 ..... Ford E-Series, 2008-20016

HWLRB11 .... Chevy Express G-Series, 2011-2016

HWLRB12 .... Ford F-250 to F550, 2011-2013

HWLRB13 .... Ford Police Interceptor Utility 2013-1015, driver side bracket includes built-in mounting for a SA315P speaker, Ford Police Interceptor Utility 2016-2017 without fog lights. If vehicle has fog lights, use HWLFE13

HWLR14 ..... Dodge 4500, 2011-2016

HWLRB19 .... Chevy Silverado 1500, 2014-2015

HWLRB20 .... Chevy Tahoe, 2015-2016

HWLRB22 .... Ford F-250/ F-350, 2011-2017

HWLRB24 .... Chevy Silverado 1500, 2017

HOWLER

⚠ WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

SPECIFICATIONS

LIGHTHEADS

Lighthead	Lamp Type	Amp Max	Amp Avg.	Dimensions, H x W
6RB	Rota-Beam™	1.0	0.40	4-3/16" x 6-9/16"
M4	Linear-LED®	1.5	0.6	3-3/8" x 5-1/2"
M6		2.25	0.9	4-5/16" x 6-3/4"
M7		2.25	0.9	3-3/8" x 7-5/8"
M9		3	1.2	6-1/2" x 10-3/8"
M6V2	V-Series™ Super-LED	1.4	0.62	4-5/16" x 6-3/4"
M9V2		2.4	2.40	6-1/2" x 10-3/8"
ION™	Linear-LED	1.0	0.40	1-11/16" x 5-15/16"
ION Wide-angle		1.0	0.40	
ION DUO™		1.0	0.40	
ION T-Series™		0.82	0.33	1" x 4-3/16"
LIN3™		0.4	0.17	1-1/8" x 3-1/2"
LINZ6™		0.75	0.3	2" x 4"
Micron™		0.6	0.24	7/8" x 4"
400		1.8	0.72	3-3/16" x 4-15/16"
500		1	0.4	1-5/8" x 5"
600		1.4	0.53	4-1/8" x 6-1/2"
700		1.4	0.53	3-1/16" x 7-1/4"
900		2.8	1	7-1/8" x 9-1/8"
LINZ6		0.75	0.3	2" x 4"
M4	Split Linear-LED	0.75 (per side) simultaneous	0.3 (per side) alternating	3-3/8" x 5-1/2"
M6		2.2 (per side) simultaneous	1.1 (per side) alternating	4-5/16" x 6-3/4"
M7		2.2 (per side) simultaneous	1.1 (per side) alternating	3-3/8" x 7-5/8"
M9		3 (per side) simultaneous	1.6 (per side) alternating	6-1/2" x 10-3/8"
	DUO™	2.4 (per color)		
	Combination	1.58 Warning / 1.5 Scenelight		
500	Split TIR6™	0.315 (per side)	0.125 (per side)	1-5/8" x 5"
500	Split Linear-LED	0.50 (per side)	.20 (per side)	
600		0.75 (per side)	0.3	4-1/8" x 6-1/2"
700		0.75 (per side)	0.3	3-1/16" x 7-1/4"
900		1.5 (per side)	0.6	7-1/8" x 9-1/8"
V23	V-Series Super-LED	0.765	.62	2-11/16" x 4-1/4"
4V3		1.20	0.52	3-3/16" x 4-15/16"
5V3		0.50	1.12	1-5/8" x 5-3/8"
TIR3™	TIR3	0.4	0.16	1-1/8" x 3-1/2"
500	TIR6	0.63	0.315	1-5/8" x 5"

LIGHTBARS

Model	Voltage	Lamps	Amps	Dimensions
FREEDOM®				
F4NMINI (pair)	12.8	8	6	3-3/4" x 12-1/2" x 22-1/2"
F4N2VLED / F4N2QLED		8	6	3-3/4" x 12-1/2" x 55"
F4N0VLED / F4N0QLED		8	6	3-3/4" x 12-1/2" x 60"
F4N7VLED / F4N7QLED		8	6	3-3/4" x 12-1/2" x 72"
JUSTICE®				
JNMINI (pair)	12.8	10	7	2-1/4" x 12" x 22"
JE2NFPA		10	7	2-1/4" x 12" x 56-1/4"
JE0NFPA		10	7	2-1/4" x 12" x 62-3/8"
FREEDOM MICRO EDGE				
MCFLED2R (ea.)	12.8	2	1.5 ea.	3-3/4" x 12" x 8-1/4"

BEACONS

Model	Voltage	Amps	Dimensions,
RB6T	12.8	4.5	6-3/4" H x 7-7/8" Dia.
L31		4	4-1/64" H x 7-11/64" Dia.
R316		2.2	4" H x 7-3/16" Dia.
B6T		5.9	8-5/8" H x 7-13/16 W x 8-1/16 D
B6LED		5.4	7-3/8" H x 7-13/16" W x 8-1/16 D
B63		4.5	

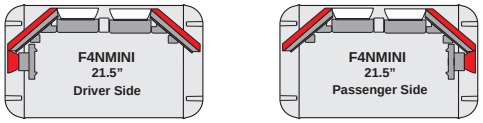
© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

WARNING: These products may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

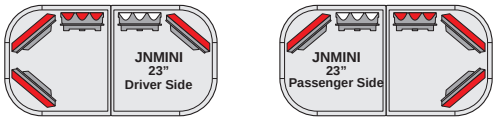
Lightbar Diagrams

FRONT

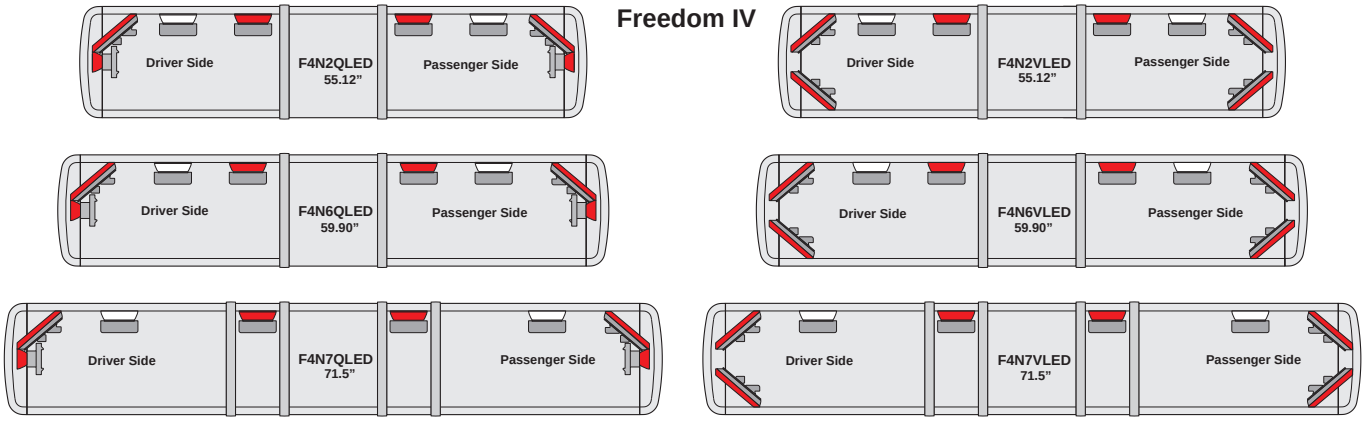
Mini Freedom® IV



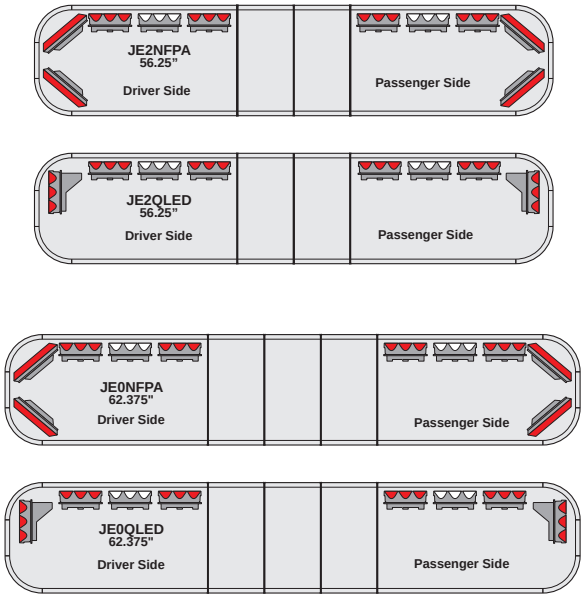
Mini Justice®



Freedom IV



Justice



⚠ WARNING: These products contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, visit whelen.com/regulatory.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

NOTES

Freedom, Justice, Super-LED, SmartLED, and Linear-LED are registered trademarks of Whelen Engineering Company, Inc.
Diagnostix, ION, Liberty, LIN3, LINZ6, Micron, Rota-Beam, TIR6, T-Series, V-Series, are trademarks of Whelen Engineering Company, Inc.

© 2019 Whelen Engineering Company, Inc.
Whelen Engineering reserves the right to change and upgrade products without notice.

51 Winthrop Road, Chester, CT 06412-0684
860-526-9504 • www.whelen.com

ISO 9001 Registered QMS

Distributed By:

WhelenEng

OFFICIAL WARNING LIGHTS OF NASCAR

Whelen Engineering reserves the right to upgrade and improve products without notice.
© 2019 Whelen Engineering Company, Inc. Printed in U.S.A.
NASCAR® is a registered trademark of the National Association for Stock Car Auto Racing, Inc.
Code No. 104090 - 09/23/19