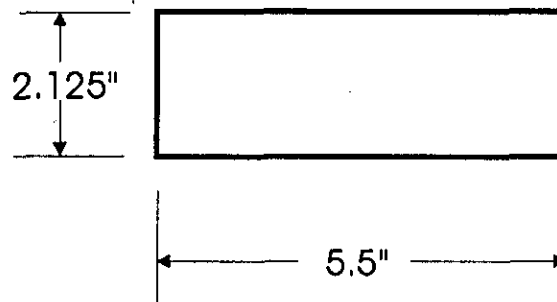



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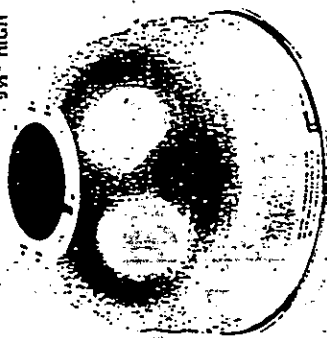
See sheets 2 & 3 for text/graphics.

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LTR REVISIONS DATE	CAUTION: DO NOT SCALE THIS PRINT		 ORIGINAL DRAWING	
	TOLERANCES ..UNLESS SPECIFIED FRACTIONAL DIMENSIONS ± 0.125" ANGULAR DIMENSIONS ± DEG.	RELEASED FOR PRODUCTION <i>[Signature]</i>		DATE 4-3-97
	NOTE: TOLERANCES ARE NOT ACCUMULATIVE	RELEASED FOR TOOLING		DATE
	TITLE: Instruction Sheet BL Hardware	RELEASED PRELIMINARY		DATE
		DRAWN BY ECHIII	DATE 04-03-97	
		SHEET <u>1</u> OF <u>3</u>		
		DWG NO. 268-1087-9901	REV.	
		SCALE <u>None</u>		

INSTALLATION INSTRUCTIONS FOR 14" DIAMETER OPEN TOP AND BOTTOM HIGH BAY INDUSTRIAL REFLECTOR BL-BI

BI
REFLECTOR
14" DIA.
9 1/2" HIGH



WARNING:

- Install, operate, and maintain to meet all applicable codes.
- Handle and secure so reflector cannot fall.
- Lamp wattage and type installed must match that specified on the fixture label.
- Do not use open reflectors with lamps that require enclosures.

CATALOG NUMBER BL-BI

PLEASE READ Thoroughly Before Installing

A. TO INSTALL 14" DIAMETER BL-BI REFLECTOR

1. Assemble the two (2) reflector brackets.
2. Mount bracket assemblies to reflector frame using screws provided. Screws can be fastened downward from the outside or upward from the inside into holes provided.
3. Back off the two screws in the lower side of the ballast housing about 1/8" turns each.
4. If the fixture is equipped with a quartz standby or emergency lighting socket bracket, orient the reflector so that the large end of the reflector frame will align with the side of the 180 lamp socket that the standby OSS cable emerges from.
5. Attach brackets with key holes to ballast housing and tighten screws on both sides.
6. Straighten both bracket parts to align the optical assembly and to ensure that the 180 lamp is centered with the reflector.
7. Make sure everything is tightened for proper engagement.

INSTALL 180 LAMP

1. Check to make sure the 180 lamp fits into the correct type and wattage for the fixture. Important information regarding lamp type and wattage is given on the ballast housing label.
2. Insert lamp into socket and hold socket while twisting lamp until light.
3. Wipe lamp glass and other end of the lamp.

INSTALL GLASS LENS ACCESSORY - BL-LB-14, IF APPLICABLE

1. Back off screw that holds lens ring together around lens. Open far enough to spread over reflector base but not let lens fall out.
2. Push lens assembly up to bottom of reflector.
3. Careful side of lens should be towards reflector bottom.
4. Clean inside of lens.
5. Place angled part of lens ring over the reflector base. Start at one end and work it over the base in a circular manner.
6. Make sure gasket ribs against the bottom of the base.
7. Clamp lens ring together to secure on reflector. Tighten the retaining screw and nut.
8. Clean bottom of lens after it is installed.

INSTALL WIRE GUARD ACCESSORY - RG-14, IF APPLICABLE

1. Back off both screws that hold the wire guard together. Open far enough to spread wire guard over reflector base lamp.
2. Push guard up to bottom of reflector.
3. Place reflector base between the upper two wires on the guard.
4. Tighten both screws and nuts to secure guard on reflector.
5. Do not over-tighten and distort reflector bottom.
6. As assembly can be interrupted without removing wire guard.

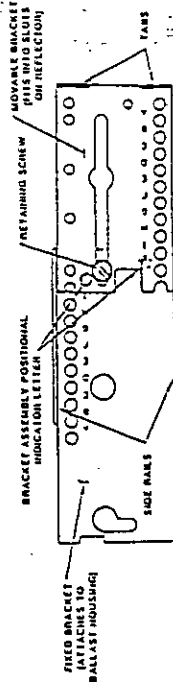
B. PHOTOMETRIC DISTRIBUTION AND BRACKET POSITIONING CHART

1. Bracket positions indicated by letters in chart.
2. Letter on upper bracket appears in indicator circle on lower sliding bracket.

DISTRIBUTIONS WANTED

SOURCE	WATTAGE	NARROW	MEDIUM	WIDE
HPS	400	I	F	D
	250	I	F	D
	150	H	D	A
MH	400	J	G	C
	250	H	E	A
	175	H	E	A

ASSEMBLY INSTRUCTIONS FOR REFLECTOR MOUNTING BRACKETS



1. Place fixed bracket down with the side rails facing up.
2. Place movable bracket with two tabs facing up on top of the fixed bracket.
3. Install a retaining screw, supplied in the plastic hardware bag, through the slot in the movable bracket into the lower slotted hole in the fixed bracket.
4. Check the light distribution adjustment chart to find a proper setting for this movable based upon the type and wattage of the light source and type of distribution required for installation.
5. Adjust the movable bracket to place the positional indicating letter, on either bracket, corresponding to a desired beamspread given on individual reflector instructions sheets, in the indicating circle, on either bracket.
6. Tighten screw to secure setting.
7. Assemble the second bracket combination. Two extra screws are provided to retain the bracket assemblies to the reflector. See reflector instruction sheets for information.

CLEANING

1. Clean inside of reflector with a mild non-abrasive soap or glass cleaner using a clean soft cloth.

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SHEET 2 OF 3

DWG NO. 268-1087-9901

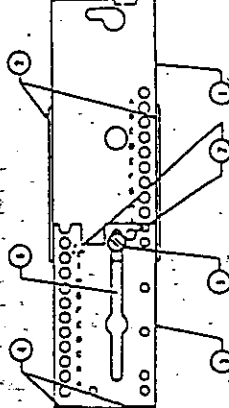
REV

INSTRUCCIONES DE INSTALACION DE LOS REFLECTORES INDUSTRIALES BL-BI DE 36 CM (14 PU) DE DIAMETRO ABIERTOS POR ARRIBA Y POR ABAJO, PARA TECHOS ALTOS

- PRECAUCIONES:**
- Proceda a la instalación, la operación y el mantenimiento de acuerdo con todas las etiquetas operativas.
 - El tipo de distribución de luz que se requiere debe estar especificado en el tipo de lámpara que se va a instalar como se indica en las indicaciones que figuran en la etiqueta de la lámpara.
 - No utilice reflectores abiertos con lámparas diseñadas para instalación en luminarias cerradas.
- INSTALACION DEL REFLECTOR:**
- Compruebe al recibir el tipo de lámpara para determinar el ajuste que conviene al soporte móvil, según la posición y el tipo de lámpara instalada y según el género de distribución requerido para la aplicación.
 - Determine el soporte móvil de abajo o arriba según la lámpara adecuada (ajuste) para el tipo de lámpara que se va a instalar en la cámara de la cámara de luz.
 - Al instalar el soporte móvil, asegurelo en la posición deseada.
 - Una vez hecho el ajuste, asegure la posición de la lámpara en la cámara que se requiere en la parte superior del reflector.

- Conecte el reflector hasta la parte inferior del cableado del balasto.
 - Conecte los cables en la parte superior del reflector por encima de las bridas preinstaladas de distribución de luz.
 - Instale la lámpara y determine el ajuste de la lámpara (ajuste) para el tipo de lámpara que se va a instalar en la cámara de la cámara de luz.
 - Conduzca los dos cables de soporte para colocarlos en los alfileres apropiados y para que la lámpara quede centrada en el reflector.
 - Asegure de apretar bien todas las bridas para que el conjunto se mantenga en su sitio y para desmontar cualquier parte de instalación.
- CUADRO DE DISTRIBUCION FOTOMETRICA Y DE AJUSTE DEL SOPORTE**
- El soporte móvil debe estar en la posición deseada.
 - La parte del soporte superior debe estar en el ajuste indicado que se encuentra en el soporte móvil inferior.

INSTRUCCIONES DE INSTALACION DE SOPORTES DE MONTAJE AJUSTABLES PARA REFLECTORES - SUPERBAY



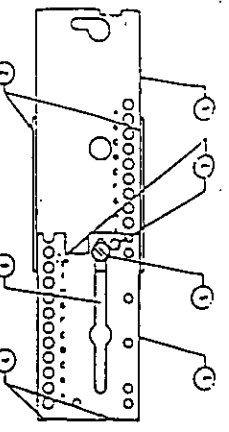
- Después de instalar el soporte móvil (1) asegurelo en la posición deseada.
- Después de instalar el soporte móvil (1) asegurelo en la posición deseada.
- Después de instalar el soporte móvil (1) asegurelo en la posición deseada.
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- Después de instalar el soporte móvil (1) asegurelo en la posición deseada.

INSTRUCTIONS D'INSTALLATION DES REFLECTEURS INDUSTRIELS BL-BI DE 36 CM (14 PO) DE DIAMETRE, OUVERTS EN HAUT ET EN BAS, POUR PLAFONDS HAUTS

- USER EN GARDE:**
- Installez, utilisez et effectuez l'entretien conformément à tous les codes pertinents.
 - Le type de distribution de lumière que vous exigez doit être spécifié sur l'étiquette de la lampe.
 - N'utilisez pas des réflecteurs ouverts en combinaison avec des lampes conçues pour être installés dans des luminaires fermés.
- INSTALLATION DU REFLECTEUR:**
- Vérifiez le tableau de réglage de la distribution de lumière avant de commencer le réglage qui convient pour le support mobile, selon le type de lampe installé et le genre de distribution requis pour l'application.
 - Déterminez le support mobile de haut ou bas selon la lampe appropriée (ajustage) indiquée dans le type de lampe que vous allez installer dans la chambre de la chambre de lumière.
 - Après avoir installé le support mobile, assurez-le dans la position souhaitée.
 - Après avoir installé le support mobile, assurez-le dans la position souhaitée.
 - Après avoir installé le support mobile, assurez-le dans la position souhaitée.

- Connectez le réflecteur jusqu'à la partie inférieure du ballast.
 - Connectez les câbles en haut du réflecteur au-dessus des brides préinstallées de distribution de lumière.
 - Installez la lampe et vérifiez son réglage (ajustage) pour le type de lampe que vous allez installer dans la chambre de la chambre de lumière.
 - Conduisez les deux câbles de support afin de les placer dans les alinéas appropriés et pour que la lampe soit centrée dans le réflecteur.
 - Assurez-vous bien toutes les brides afin que l'ensemble se maintienne en place et que l'installation ne pose pas de danger.
- TABLÉAU DE DISTRIBUTION PHOTOMETRIQUE ET DE RÉGLAGE DU SUPPORT**
- Le support mobile doit être dans la position souhaitée.
 - La partie du support de haut doit être réglée dans le cadre indicateur qui se trouve dans le support mobile du bas.

INSTRUCTIONS D'INSTALLATION DES SUPPORTS DE MONTAGE RÉGLABLES POUR REFLECTEURS - SUPERBAY




- Après le montage du support mobile (1) assurez-le dans la position souhaitée.
- Après le montage du support mobile (1) assurez-le dans la position souhaitée.
- Après le montage du support mobile (1) assurez-le dans la position souhaitée.
- Après le montage du support mobile (1) assurez-le dans la position souhaitée.
- Après le montage du support mobile (1) assurez-le dans la position souhaitée.
- Après le montage du support mobile (1) assurez-le dans la position souhaitée.
- Après le montage du support mobile (1) assurez-le dans la position souhaitée.

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	TITLE: Instruction Sheet Back Graphics/Text SCALE None	



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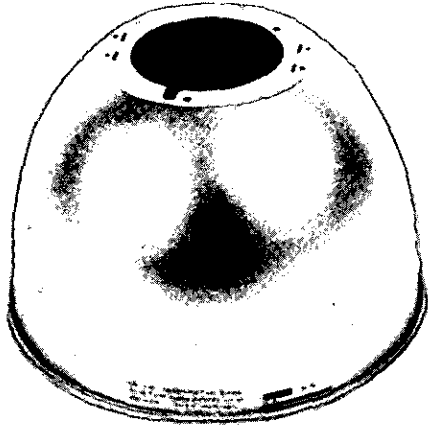
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SHEET 3 OF 3

DWG NO. 268-1087-9901

REV

INSTALLATION INSTRUCTIONS FOR 14" DIAMETER OPEN TOP AND BOTTOM HIGH BAY INDUSTRIAL REFLECTOR BL-BI



BI REFLECTOR 14" DIA.

WARNING:

- Install, operate, and maintain to meet all applicable codes.
- Handle and secure so reflector cannot fall.
- Lamp wattage and type installed must match that specified on the fixture label.
- Do not use open reflectors with lamps that require enclosures.

CATALOG NUMBER BL-BI

Please Read Thoroughly Before Installing

A. TO INSTALL 14" DIAMETER BL-BI REFLECTOR

1. Assemble the two (2) reflector brackets. See mounting bracket assembly instructions.
2. Adjust movable bracket per distribution chart.
3. Insert bracket assemblies into slots provided in the top reflector flange. Tabs should point outward.
4. Back off the two screws in the lower side(s) of the ballast housing about five (5) turns each.
5. If the fixture is equipped with a quartz standby or emergency lighting socket bracket, orient the reflector so that the large cutout in the reflector flange will align with the side of the HID lamp socket that has the auxiliary QSS cable emerging (from).
6. Attach brackets, with key holes, to ballast housing and tighten screws on both sides.
7. Straighten both bracket pairs to align the optical assembly and to ensure that the HID lamp is centered within the reflector. Make sure everything is tightened for proper engagement and security.

INSTALL HID LAMP

1. Check to make sure the HID lamp to be installed is the correct type and wattage for the fixture. Important information regarding lamp type and wattage is given on the ballast housing label.
2. Insert lamp into socket and hold socket while threading lamp until tight.
3. Wipe fingerprints and other grime off the lamp.

INSTALL GLASS LENS ACCESSORY ENCLOSURE - BL-LR-14, IF APPLICABLE

1. Back off the screw that holds the lens ring together (around lens). Open it far enough to spread it over reflector flange but not let the lens fall out.
2. Gasketed side of lens should be towards reflector bottom.
3. Clean inside of lens.
4. Raise lens assembly up to bottom of reflector.
5. Place angled part of lens ring over the reflector flange. Start at one end and work it over the flange in a circular manner.
6. Make sure gasket sets inside the reflector flange.
7. Clamp lens ring together to secure on reflector. Tighten the retaining screw and nut.
8. Clean bottom of lens after it is installed.

INSTALL WIRE GUARD ACCESSORY - WG-14, IF APPLICABLE

1. Back off both screws that hold the wire guard together. Open far enough to spread wire guard over reflector flange.
2. Raise guard up to bottom of reflector.
3. Place reflector flange between the upper two wires on the guard.
4. Tighten both screws and nuts to secure guard on reflector. Do not overtighten and distort reflector bottom.
5. Assembly can be relamped without removing wire guard.

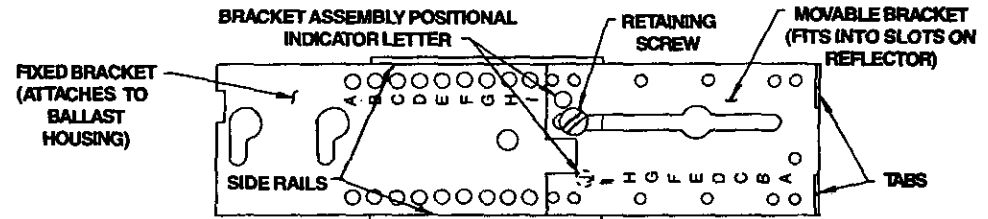
A. PHOTOMETRIC DISTRIBUTION AND BRACKET POSITIONING CHART

1. Bracket positions indicated by letters in chart.
2. Letter on upper bracket appears in indicator circle on lower sliding bracket.

DISTRIBUTIONS WANTED

SOURCE	WATTAGE	NARROW	MEDIUM	WIDE
HPS	400	J	F	B
	250	I	F	B
	150	H	D	A
MH	400	J	G	C
	250	H	E	A
	175	H	E	A

ASSEMBLY INSTRUCTIONS FOR REFLECTOR MOUNTING BRACKETS



1. Place fixed bracket down with the side rails facing up.
2. Place movable bracket with two tabs facing up on top of the fixed bracket.
3. Install a retaining screw, supplied in the plastic hardware bag, through the slot in the movable bracket into the lower aligned hole in the fixed bracket.
4. Check the light distribution adjustment chart to find a proper setting for this movable bracket based upon the type and wattage of the light source and type of distribution required for installation.
5. Adjust the movable bracket to place the positional indicating letter, on either bracket, corresponding to a desired beamspread given on distributions wanted chart, in the indicating circle, on either bracket.
6. Tighten screw to secure setting.
7. Assemble the second bracket combination. See reflector installation instruction portion for installation and other information.

CLEANING

1. Clean inside of reflector with a mild non-abrasive soap or glass cleaner using a clean soft cloth.

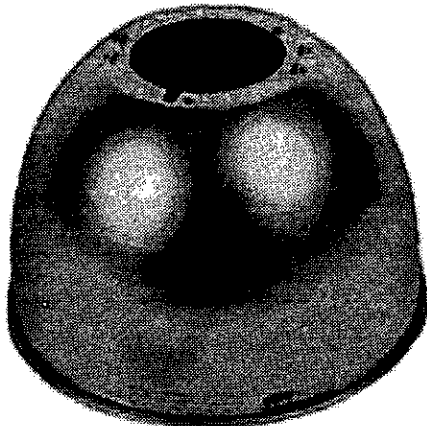
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268-1087-9901
 REV. A

INSTALLATION INSTRUCTIONS FOR 14" DIAMETER OPEN TOP AND BOTTOM HIGH BAY INDUSTRIAL REFLECTOR BL-BI



BI FLECTOR 4" DIA.

WARNING:

- Install, operate, and maintain to meet all applicable codes.
- Handle and secure so reflector cannot fall.
- Lamp wattage and type installed must match that specified on the fixture label.

CAUTION - To reduce the RISK OF FIRE when using an open bottom reflector or refractor, DO NOT INSTALL A LAMP MARKED FOR USE IN ENCLOSED LUMINAIRE ONLY (E-code). Follow all lamp manufacturer's recommended instructions.

CATALOG NUMBER BL-BI

Please Read Thoroughly Before Installing

A. TO INSTALL 14" DIAMETER BL-BI REFLECTOR

1. Assemble the two (2) reflector brackets. See mounting bracket assembly instructions.
2. Adjust movable bracket per distribution chart.
3. Insert bracket assemblies into slots provided in the top reflector flange. Tabs should point outward.
4. Back off the two screws in the lower side(s) of the ballast housing about five (5) turns each.
5. If the fixture is equipped with a quartz standby or emergency lighting socket bracket, orient the reflector so that the large cutout in the reflector flange will align with the side of the HID lamp socket that has the auxiliary QSS cable emerging (from).
6. Attach brackets, with key holes, to ballast housing and tighten screws on both sides.
7. Straighten both bracket pairs to align the optical assembly and to ensure that the HID lamp is centered within the reflector. Make sure everything is tightened for proper engagement and security.

INSTALL HID LAMP

1. Check to make sure the HID lamp to be installed is the correct type and wattage for the fixture. Important information regarding lamp type and wattage is given on the ballast housing label.
2. Insert lamp into socket and hold socket while threading lamp until tight.
3. Wipe fingerprints and other grime off the lamp.

INSTALL GLASS LENS ACCESSORY ENCLOSURE - BL-LR-14, IF APPLICABLE

1. Back off the screw that holds the lens ring together (around lens). Open it far enough to spread it over reflector flange but not let the lens fall out.
2. Gasketed side of lens should be towards reflector bottom. Clean inside of lens.
3. Raise lens assembly up to bottom of reflector.
4. Place angled part of lens ring over the reflector flange. Start at one end and work it over the flange in a circular manner.
5. Make sure gasket sets inside the reflector flange.
6. Clamp lens ring together to secure on reflector. Tighten the retaining screw and nut.
7. Clean bottom of lens after it is installed.

INSTALL WIRE GUARD ACCESSORY - WG-14, IF APPLICABLE

1. Back off both screws that hold the wire guard together. Open far enough to spread wire guard over reflector flange.
2. Raise guard up to bottom of reflector.
3. Place reflector flange between the upper two wires on the guard.
4. Tighten both screws and nuts to secure guard on reflector. Do not overtighten and distort reflector bottom.
5. Assembly can be relamped without removing wire guard.

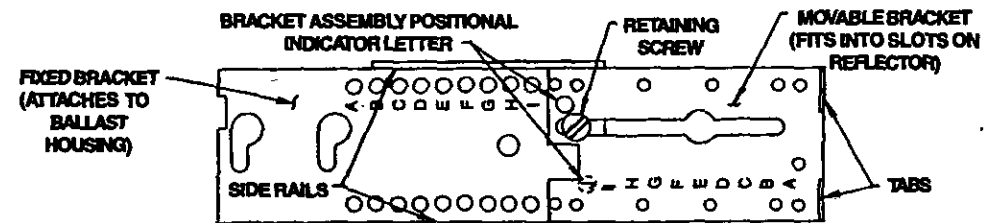
A. PHOTOMETRIC DISTRIBUTION AND BRACKET POSITIONING CHART

1. Bracket positions indicated by letters in chart.
2. Letter on upper bracket appears in indicator circle on lower sliding bracket.

DISTRIBUTIONS WANTED

SOURCE	WATTAGE	NARROW	MEDIUM	WIDE
HPS	400	I	F	B
	250	I	F	B
	150	H	D	A
MH	400	J	G	C
	250	H	E	A
	175	H	E	A

ASSEMBLY INSTRUCTIONS FOR REFLECTOR MOUNTING BRACKETS



1. Place fixed bracket down with the side rails facing up.
2. Place movable bracket with two tabs facing up on top of the fixed bracket.
3. Install a retaining screw, supplied in the plastic hardware bag, through the slot in the movable bracket into the lower aligned hole in the fixed bracket.
4. Check the light distribution adjustment chart to find a proper setting for this movable bracket based upon the type and wattage of the light source and type of distribution required for installation.
5. Adjust the movable bracket to place the positional indicating letter, on either bracket, corresponding to a desired beamspread given on distributions wanted chart, in the indicating circle, on either bracket.
6. Tighten screw to secure setting.
7. Assemble the second bracket combination. See reflector installation instruction portion for installation and other information.

CLEANING

1. Clean inside of reflector with a mild non-abrasive soap or glass cleaner using a clean soft cloth.



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