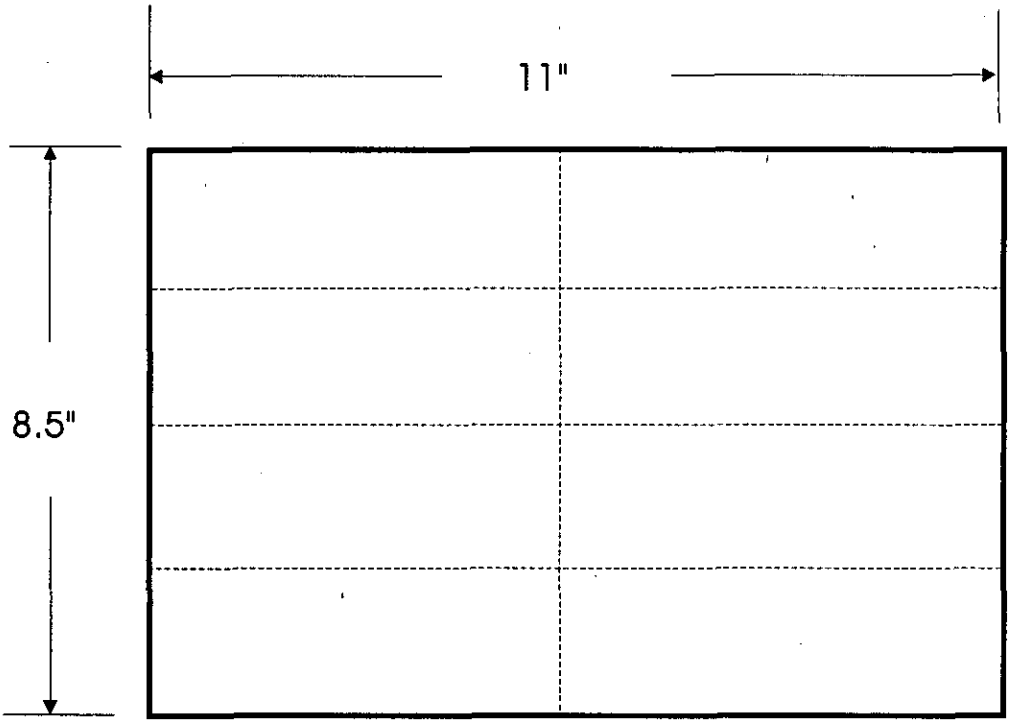

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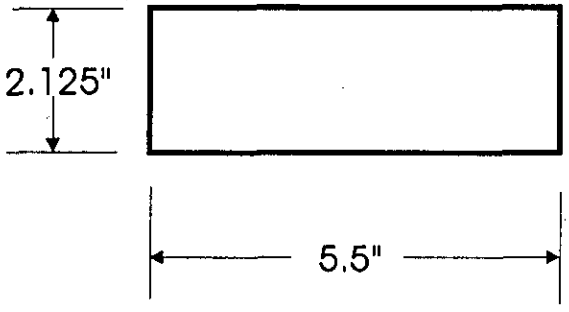

See sheets 2 & 3 for text/graphics.

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LTR	REVISIONS	DATE

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NOTE: TOLERANCES ARE NOT ACCUMLATIVE

RELEASED FOR PRODUCTION	DATE 4-3-97
RELEASED FOR TOOLING	DATE
RELEASED PRELIMINARY	DATE
DRAWN BY ECHIII	DATE 04-03-97

TITLE:
Instruction Sheet
BL Hardware

SCALE None

HUBBELL® Lighting Inc.

ORIGINAL DRAWING

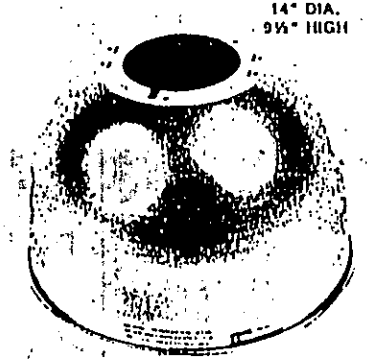
SHEET 1 OF 3

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.
9½" 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. Adjust movable bracket per distribution chart.
3. Mount bracket assemblies to reflector flange using screws provided. Screws can be inserted downward from the outside or upward from the inside into holes provided.
4. Back off the two screws in the lower side 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 the auxiliary OSS cable emerges (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 with the reflector. Make sure everything is tightened for proper engagement.

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 dirt off the lamp.

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

1. Back off screw that holds lens ring together around lens. Open far enough to spread over reflector bead flange but not far lens fall out.
2. Raise lens assembly up to bottom of reflector.
3. Gasketed side of lens should be towards reflector bottom. Clean inside of lens.
4. Place angled part of lens ring over the reflector bead. Start at one end and work it over the bead in a circular manner.
5. Make sure gasket sets against the bottom of the bead.
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 - RG-14, IF APPLICABLE

1. Back off both screws that hold the wire guard together. Open far enough to spread wire guard over reflector bead flange.
2. Raise guard up to bottom of reflector.
3. Place reflector bead 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.

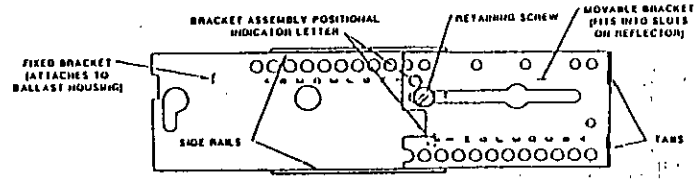
B. PHOTOMETRIC DISTRIBUTION AND BRACKET POSITIONING CHART

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	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 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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Christiansburg, VA 24073-2500
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NOTE: TOLERANCES ARE NOT ACCUMULATIVE

LTR	REVISIONS	DATE

RELEASED FOR PRODUCTION DATE 4-3-97
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DRAWN BY ECHIII DATE 04-03-97

TITLE: Instruction Sheet
Front Graphics/Text
SCALE None

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ORIGINAL DRAWING

DWG NO. 268-1087-9901 REV

SHEET 2 OF 3

PART # 275-0238-9901

HUBBELL LIGHTING, INC. ELECTRIC WAY CHRISTIANSBURG, VA 24073

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

PRECAUCIONES :

- Proceda a la instalación, la utilización y el mantenimiento de acuerdo con todos los códigos aplicables.
- Manipule e instale el reflector de forma que no pueda caerse.
- Tenga en cuenta el tipo de lámpara que vaya a instalarse como su potencia (W) deberán respetar las indicaciones que figuran en la etiqueta de la luminaria.
- No utilice reflectores abiertos con lámparas diseñadas para instalación en luminarias cerradas.

INSTALACIÓN DEL REFLECTOR :

1. Compruebe el cuadro de ajuste de la distribución del flujo luminoso para determinar el ajuste que convenga al soporte móvil, según la potencia y el tipo de lámpara instalada y según el género de distribución necesario para la aplicación.
2. Desplace el soporte móvil de abajo a arriba hasta que la letra adecuada (ajuste) aparezca en el agujero situado en la parte superior a la derecha de la columna de letras.
3. Apriete el tornillo de sujeción para mantener esta posición.
4. Abra los dos tornillos situados en la parte inferior del cajetín del balasto girándolos cinco (5) veces.
5. Gire hacia abajo la pestaña del brazo del reflector e introduzca la pestaña en la ranura que se encuentra en la parte superior del reflector.

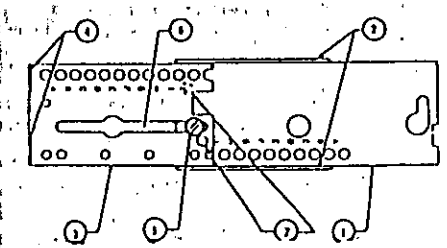
~~Sujete firmemente el reflector y introduzca los tornillos cautivos (4) a través de las ranuras de la derecha, y después empuje el reflector hacia abajo.~~

7. Levante el reflector hasta la parte inferior del cajetín del balasto.
8. Coloque los agujeros en forma de pera de las lañas del reflector por encima de los tornillos parcialmente desatornillados del cajetín del balasto. Encaje los dos tornillos en las ranuras de los agujeros en forma de pera y apriételos.
9. Instale la lámpara o descarga de alta intensidad (HID). Compruebe que la potencia (W) y el tipo de lámpara sean los especificados en la etiqueta de la luminaria.
10. Cubra los dos pares de soportes para colocar en línea el conjunto óptico y para que la lámpara quede centrada en el reflector.
11. Asegúrese de apretar bien todos los tornillos para que el conjunto se mantenga en su sitio y para descartar cualquier peligro de instalación.

CUADRO DE DISTRIBUCIÓN FOTOMÉTRICA Y DE AJUSTE DEL SOPORTE

1. Las posiciones del soporte se indican con letras en el cuadro.
2. La letra del soporte superior tiene que aparecer en el círculo indicador que se encuentra en el soporte móvil interior.

INSTRUCCIONES DE INSTALACIÓN DE SOPORTES DE MONTAJE AJUSTABLES PARA REFLECTORES - SUPERBAY I



1. Deposite el soporte fijo (1) sobre una superficie, de forma que las ranuras interiores (2) queden orientadas hacia arriba.
2. Coloque el soporte móvil (3), con sus dos lengüetas (4) orientadas hacia arriba, sobre el soporte fijo.
3. Introduzca un tornillo (5), con la cabeza hacia arriba, a través de la ranura (6) del soporte móvil y por el agujero alineado del soporte fijo.
4. Ajuste el soporte móvil para obtener un determinado haz fotométrico, según las indicaciones que figuran en la hoja de instrucciones del reflector. Coloque la letra que indica la posición (7) en el interior del círculo indicado (7).
5. Apriete el tornillo para mantener el soporte en la posición seleccionada. Evite apretar demasiado pues podría dañar la rosca del tornillo.
6. Ensamble el segundo juego de soportes.
7. ~~Nota: Se suministran dos tornillos adicionales para fijar los soportes al reflector.~~ Para más información, consulte la hoja de instrucciones del reflector.

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

MISES EN GARDE :

- Installer, utiliser et effectuer l'entretien conformément à tous les codes pertinents.
- Manipuler et installer le réflecteur de manière à ce qu'il ne puisse tomber.
- Le type de lampe installé, ainsi que le wattage de cette lampe, doivent être conformes aux indications figurant sur l'étiquette du luminaire.
- Ne pas utiliser des réflecteurs ouverts en combinaison avec des lampes devant être installées dans un luminaire fermé.

INSTALLATION DU RÉFLECTEUR :

1. Vérifier le tableau de réglage de la distribution du flux lumineux afin de connaître le réglage qui convient pour le support mobile, selon le wattage et le type de la lampe installée et le genre de distribution requis pour l'application.
2. Déplacer le support mobile de bas en haut jusqu'à ce que la lettre appropriée (réglage) apparaisse dans le trou situé en haut et à droite de la colonne de lettres.
3. Serrer la vis de calage pour maintenir cette position.
4. Desserrer les deux vis situées dans la partie intérieure du boîtier du ballast en les tournant cinq (5) fois.
5. Tourner vers l'extérieur le rebord du support du réflecteur et insérer le rebord dans la fente que se trouve dans la partie supérieure du réflecteur.

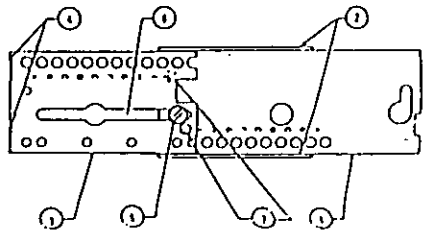
~~Maintenir le support en place dans la fente en insérant une vis verticalement dans la grande trou adjacent à la fente de droite, puis dans le rebord du support, manuellement.~~

7. Soulever le réflecteur jusqu'au bas du boîtier du ballast.
8. Placer les trous en poire des attaches du réflecteur par-dessus les vis du boîtier du ballast qui ont été partiellement dévissées. Engager les deux vis dans les fentes des trous en poire et serrer les vis.
9. Installer la lampe (HID). S'assurer qu'elle est de wattage et de type spécifiés sur l'étiquette du luminaire.
10. Redresser les deux pièces de support afin d'aligner l'ensemble optique et de faire en sorte que la lampe soit centrée dans le réflecteur.
11. S'assurer de bien serrer toutes les vis afin que tout soit maintenu en place et que l'installation ne pose pas de danger.

TABLEAU DE DISTRIBUTION PHOTOMÉTRIQUE ET DE RÉGLAGE DU SUPPORT

1. Les positions du support sont indiquées par des lettres dans le tableau.
2. La lettre du support du haut doit apparaître dans le cercle indicateur qui se trouve dans le support mobile du bas.

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



1. Placer le support fixe (1) à plat sur une surface quelconque, de sorte que les rails latéraux (2) pointent vers le haut.
2. Placer le support mobile (3), avec ses deux languettes (4) pointant vers le haut, par-dessus le support fixe.
3. Insérer une vis (5), tête en haut, à travers la fente (6) du support mobile et dans le trou aligné du support fixe.
4. Régler le support mobile de façon à obtenir un faisceau photométrique particulier, selon les indications qui figurent sur la feuille d'instructions du réflecteur. Placer cette lettre indiquant la position (7) à l'intérieur du cercle indiqué (7).
5. Serrer la vis pour maintenir le support dans la position adoptée. Éviter de trop serrer, au risque d'endommager les filets de la vis.
6. Assembler le second jeu de supports.
7. ~~Notez : Deux vis supplémentaires sont fournies pour fixer le support au réflecteur.~~ Consulter la feuille d'instructions du réflecteur pour plus d'information.

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ORIGINAL DRAWING

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TITLE: Instruction Sheet
Back Graphics/Text SCALE None

DWG NO. 268-1087-9901 REV

SHEET 3 OF 3

LTR REVISIONS DATE

PART # 275-0236-9901

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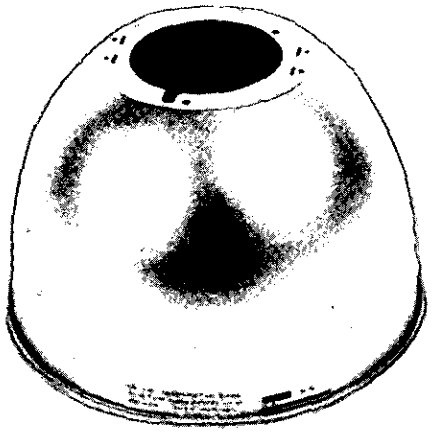
INSTALLATION INSTRUCTIONS FOR 14" DIAMETER OPEN TOP AND BOTTOM HIGH BAY INDUSTRIAL REFLECTOR BL-BI



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 ReadThoroughly 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.

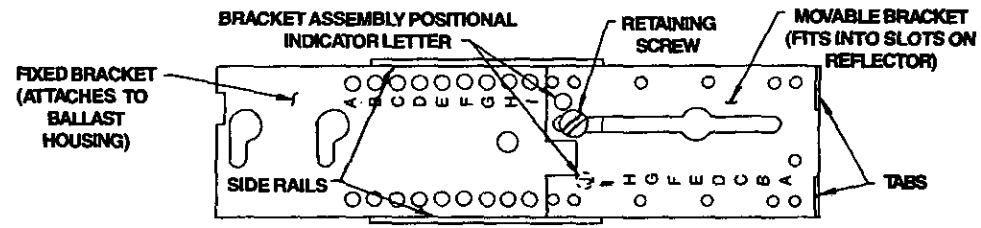
A. PHOTOMETRIC DISTRIBUTION AND BRACKET POSITIONING CHART

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.

ORIGINAL DRAWING

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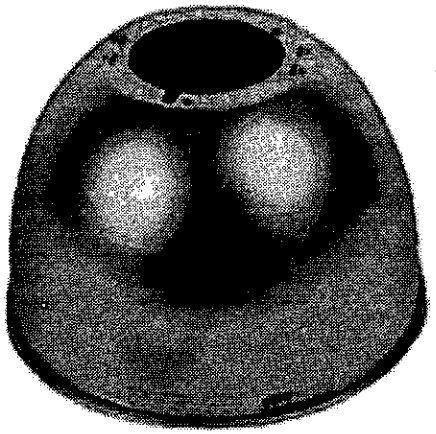
268-1087-9901
REV. A

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 LUMINAIRES 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

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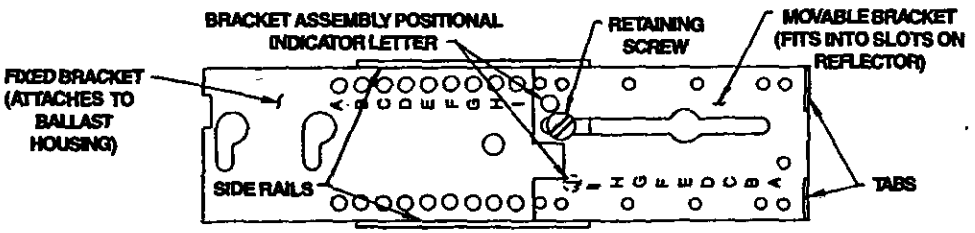
HPS	400	I	F	B
	250	I	F	B
	150	H	D	A
MH	400	J	G	C
	250	H	E	A
	175	H	E	A

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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