



WA·A·C

L I G H T I N G

®

THE W•A•C STORY

■ SINCE OUR INCEPTION IN 1984 OUR DAILY MISSION HAS BEEN TO PRODUCE THE HIGHEST QUALITY PRODUCTS IN THE INDUSTRY. THIS DEDICATION TO EXCELLENCE IN ALL FACETS OF OUR BUSINESS HAS HELPED US TO BECOME THE FASTEST GROWING SUPPLIER OF TRACK LIGHTING AND LOW VOLTAGE RECESSED FIXTURES IN THE COUNTRY. THIS CATALOG INTRODUCES SEVERAL NEW PRODUCT LINES THAT WILL BE MANUFACTURED TO THE SAME HIGH STANDARDS. ALL OF OUR FIXTURES HAVE BEEN DESIGNED TO PROVIDE THE PERFECT LIGHTING FOR THEIR SPECIFIC APPLICATIONS. GENERAL LIGHTING, ACCENT LIGHTING, TASK LIGHTING - WHATEVER THE NEED WE HAVE ENDEAVORED TO SUPPLY YOU WITH PRODUCTS THAT WILL PERFORM TO YOUR EXPECTATIONS. OUR MOTTO AND OUR PHILOSOPHY REMAINS THE SAME. LIGHTING EXCELLENCE FOR TODAY AND TOMORROW. ALL W.A.C. LIGHTING PRODUCTS ARE LISTED WITH EITHER UNDERWRITERS LABORATORIES OR THE ELECTRICAL TESTING LABORATORY.



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TRACK LIGHTING APPLICATIONS



■ **WALL GRAZING.** THE TERM "GRAZING" REFERS TO THE DRAMATIC HIGHLIGHT AND SHADOW EFFECTS ON SURFACES SUCH AS DRAPERIES, STONE AND BRICK. GRAZING CREATES EASILY DISTINGUISHABLE HIGH AND LOW LEVELS OF LIGHT ON THE SURFACE. SEE PAGE 58 FOR DETAILS ON HOW TO ACHIEVE THIS EFFECT.



■ **ACCENT LIGHTING.** TO BE EFFECTIVE ACCENT LIGHTING SHOULD BE APPROXIMATELY FOUR TIMES THE LEVEL OF THE AMBIENT LIGHT IN THE AREA. THE HIGHER LEVEL ON THE "ACCENTED OBJECT" OR "AREA" ACHIEVED WITH A BEAM OF LIGHT DRAWS ATTENTION TO THE PICTURE, VASE, OR ANY ITEM YOU DESIRE TO HIGHLIGHT. SEE PAGE 58 FOR ADDITIONAL INFORMATION.



■ **WALL WASHING.** THIS TECHNIQUE PRODUCES A RELATIVELY SMOOTH, EVEN LEVEL OF ILLUMINATION ON THE WALL. WALL WASHING REDUCES THE TEXTURE OF THE SURFACE. PAGE 58 GIVES YOU "HOW TO" INFORMATION.



■ **WALL WASHING.** RECESSED LIGHTING IS EMPLOYED TO "WASH WALLS" WHERE A HIDDEN OR BUILT IN SOURCE OF LIGHT IS DESIRED. WALL WASHING CAN BE USED TO BOUNCE LIGHT BACK INTO THE ROOM AND A BRIGHTLY LIT WALL CAN MAKE THE ROOM APPEAR LARGER. SEE PAGE 58 FOR ADDITIONAL PLACEMENT SUGGESTIONS.



■ **TASK LIGHTING.** TYPICALLY REFERS TO THE HIGHER LEVEL OF LIGHT PROVIDED ON WORK AREAS SUCH AS KITCHEN ISLANDS, COUNTERTOPS AND SINKS. PROPER PLACEMENT OF DOWNLIGHTS OVER THESE AREAS SOLVES THE PROBLEM PERFECTLY.



■ **ACCENT LIGHTING.** LIGHTING OBJECTS ON WALLS, TABLETOPS, COUNTERS AND FLOORS CAN BE ACHIEVED BY USE OF OUR MINIATURE FIXTURES FOUND ON PAGE 39-41. THE SMALL SIZE OF THESE LIGHT SOURCES MAKE THEM VERY ADAPT-ABLE FOR USE INSIDE CABINETS, ON SHELIVING, UNDER COUNTERS AND VIRTU-ALLY ANYWHERE A SMALL LIGHT SOURCE IS REQUIRED.



■ **GENERAL LIGHTING.** GENERAL, OR AMBIENT LIGHT SHOULD PROVIDE AN EVEN OR OVERALL LEVEL OF LIGHT TO MAKE THE ROOM OR SPACE COMFORT-ABLE AND SAFE FOR IT'S INTENDED USE. RECESSED LIGHTING IS VERY POPULAR AS A GENERAL LIGHTING SOURCE. SEE PAGE 58 FOR ADDITIONAL INFORMATION.

LINEAR LIGHTING APPLICATIONS

■ **UNDER CABINET.** PROPER LIGHTING ON COUNTERTOPS FROM BENEATH THE CABINETS IS ACCOMPLISHED PERFECTLY WITH OUR LINEAR SYSTEM. SHADOW FREE EVEN ILLUMINATION AT WHATEVER LEVEL IS DESIRED IN NEW CONSTRUCTION OR REMODELING. REFER TO PAGES 26-32 FOR MORE INFORMATION.



■ **TOE SPACE.** A SMOOTH, SOFT LIGHT UNDER KITCHEN CABINETS, THE BOTTOM SHELF OF BOOKCASES AND ETAGERES OR BEHIND A FASCIA ON STEPS MAKES A DRAMATIC QUALITY STATEMENT. PAGES 26-32 CONTAIN SPECIFICATIONS AND ORDERING INFORMATION.

■ **IN CABINET.** LIGHTING IN CABINETS, BREAKFRONTS AND CASEWORK HIGHLIGHTS YOUR KEEPSAKES, ORNAMENTS, DINNERWARE, ETC WITH A WARM EVEN LIGHT THAT ENHANCES ANY ROOM OR DISPLAY. OUR LINEAR SYSTEM OFFERS A WIDE VARIETY OF FIXTURES AND BULBS TO DO THE JOB BEAUTIFULLY. DATA ON PAGES 26-32.



■ **COVE LIGHTING.** OUR "LINEAR SYSTEM" IS PERFECT FOR LIGHTING TO BE BUILT INTO A COVE NEAR THE TOP OF A WALL. THE AMOUNT OF LIGHT ON THE CEILING IS DETERMINED BY THE WATTAGE OF THE LAMPS AND THE NUMBER OF LAMPHOLDERS PLACED ALONG THE LINEAR STRIP. SEE PAGES 26-32 FOR INFORMATION ON THE VARIOUS BULBS AND FIXTURES AVAILABLE.

LINEAR LIGHTING APPLICATIONS



■ **CEILING CLOSE-UP.** OUR TINY LINEAR SYSTEM IS EASILY INSTALLED ON THE SURFACE OR REGRESSED FOR A SMOOTH EVEN CEILING LINE. OUR SYSTEM IS ADAPTABLE TO FIXTURES THAT ACCOMMODATE MR11 AND MR16 LAMPS FOR APPLICATIONS REQUIRING HIGHER LIGHTING LEVELS.



■ **WALL BRACKET.** THE WALL BRACKETS (SEE PAGE 32) ALLOW THE TRACK TO BE SUSPENDED FROM THE WALL AND EMPLOYS THE SAME CARRIER THAT IS USED WHEN THE TRACK IS SUSPENDED FROM THE CEILING. ALL LINEAR FIXTURES AND BULBS ARE ALSO ADAPTABLE TO THE TRACK WHEN USED WITH THE WALL BRACKET.



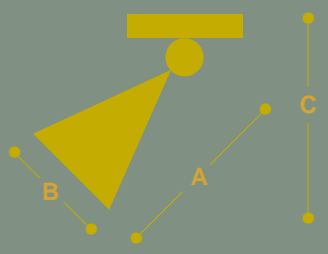
■ **CEILING DROP.** OUR LINEAR TRACK MAY BE SUSPENDED FROM THE CEILING BY EMPLOYING OUR CEILING KIT (SEE PAGE 32 FOR DETAILS ON THIS KIT). THE SUSPENDED TRACK IN 4' OR 8' LENGTH IS ENCLOSED IN A CARRIER (SEE PAGE 32). ALL LINEAR FIXTURES AND BULBS ARE ADAPTABLE TO THE TRACK WHEN SUSPENDED.

DIECAST LOW VOLTAGE TRACK HEADS

■ THE NEW DIECAST MINI HEADS COMBINE WITH SMALLER TRANSFORMERS TO PROVIDE MAXIMUM HALOGEN LIGHTING WHERE A SMALL SOURCE IS DESIRED. ■ AIMING DEVICES ADD A FASHION TOUCH TO A FUNCTIONAL FEATURE. ■ LENSES, COLOR FILTERS AND LOUVERS ARE EASILY ADDED TO THE 826, 846, AND 1126 BY UNSCREWING THE FRONT TRIM**. ■ NEW SWIVEL DESIGN ALLOWS MAXIMUM AIMING FLEXIBILITY COMBINED WITH SHALLOW DEPTH. ■ THE 936 ACCEPTS BOTH PAR36 AND AR111 LAMPS. ■ NO EXPOSED WIRING. ■ 220V AVAILABLE WITH ALL LOW VOLTAGE TRACK HEADS. CONSULT FACTORY FOR INFORMATION.



A LENGTH B DIAMETER C MAX EXTENSION



	2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES				LAMPS			DIMENSIONS			
				BK	WT	GL/BK	GL/WT	MR11	MR16	PAR 36 - AR111	A	B	C	
LHT-816	HHT-816	JHT-816	•	•	•	•	20W-35W	20W-50W-75W*				3 1/2"	1 1/4"	4 1/4"
LHT-826**	HHT-826**	JHT-826**	•	•				20W-50W-75W*				4 1/4"	2 1/4"	5 1/4"
LHT-846**	HHT-846**	JHT-846**	•	•				20W-50W-75W*				2 1/2"	5 1/4"	4 3/4"
LHT-936	HHT-936	JHT-936	•	•						50W-75W*		3 1/8"	5"	7"
LHT-1126**	HHT-1126**	JHT-1126**	•	•				20W-35W				3 7/8"	1 3/4"	4 3/4"

FINISH KEY: BK - BLACK • WT - WHITE • GL/BK - BLACK W/GOLD HEAD • GL/WT - WHITE W/GOLD HEAD
 *AVAILABLE AS 75W, WHEN ORDERING ADD "L" TO FIXTURE MODEL NUMBER (IE: HHT-846L)
 **LENSES, COLOR FILTERS AND LOUVERS AVAILABLE, SEE TRACKS AND ACCESSORIES PAGE 20.
 ALL LOW VOLTAGE TRACK HEADS MAY BE FITTED WITH EXTENSIONS, SEE TRACK ACCESSORIES ON PAGE 21.
 ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON OTHER MANUFACTURERS "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)

LOW VOLTAGE TRACK HEADS

■ THE 008FP FRAMING PROJECTOR ACCESSORY*** EASILY ATTACHES TO THE 007 ALLOWING THE DISPLAY OF ANY FOUR SIDED IMAGE. ■ STYLE 170 EMPLOYS THE AR70 LAMP WHICH PROVIDES PRECISE HIGH LEVEL LIGHTING. ■ STYLE 160 WAS DESIGNED TO FIT CLOSER TO THE TRACK WHERE DEPTH IS A FACTOR, I.E. CABINETS, KIOSKS, ETC. ■ ALL STYLES EQUIPPED WITH A SELF CONTAINED ELECTRONIC TRANSFORMER THAT GENERALLY WILL WORK WITH INCANDESCENT DIMMERS. ■ AVAILABLE ON 18", 24", 36" OR 48" EXTENSION RODS (SEE PAGE 21 FOR ORDERING INFORMATION).

L



H



J



008FP FRAMING PROJECTOR ACCESSORY

007



204



170



160



2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES				AR70	LAMPS		DIMENSIONS			
			BK	WT	GL/BK	GL/WT		MR16	MR11	A	B	C	
LHT-007	HHT-007	JHT-007	•	•	•	•		20W-50W-75W*			4 1/4"	2 1/4"	7"
LHT-160	HHT-160	JHT-160	•	•				20W-50W-75W*			2 1/2"	2"	3"
LHT-170	HHT-170	JHT-170	•	•			50W-75W*				2 1/2"	2 3/4"	3 1/2"
LHT-204	HHT-204	JHT-204	•	•				20W***-50W***-75W*	20W**-35W**		1 1/4"	1"	24"

FINISH KEY: BK - BLACK • WT - WHITE • GL/BK - BLACK W/GOLD HEAD • GL/WT - WHITE W/GOLD HEAD
 *WHEN ORDERING 75W CONFIGURATION ADD "L" TO FIXTURE MODEL NUMBER (IE: HHT-160L)
 ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON OTHER MANUFACTURERS "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)
 **USE MR11G AND MR16G LAMPS OR THE LENS-CLIP (PAGE 20) AS FIXTURE DOES NOT HAVE A LENS COVERING THE LAMP. THE LENS-CLIP INCLUDES A CLEAR LENS. SEE PAGE 20 FOR SHIELDS TO CONTROL BACK LIGHTING
 ***PHOTO ILLUSTRATES THE 008FP FRAMING PROJECTOR ACCESSORY INSTALLED ON TRACK HEAD STYLE 007. TO ORDER THE COMPLETE UNIT SPECIFY 007 IN THE TRACK STYLE DESIRED PLUS THE 008FP ACCESSORY. THE FRAMING PROJECTOR IS AVAILABLE IN BLACK OR WHITE.

LOW VOLTAGE TRACK HEADS

■ LOW VOLTAGE LAMPS HAVE SEVERAL ADVANTAGES OVER STANDARD REFLECTOR (R) AND PROJECTOR (PAR) LAMPS.

■ IMPROVED BEAM SPREAD CONTROL, APPROXIMATELY 66% SAVINGS IN ENERGY COSTS (THE MR16 50W LAMP CAN OFTEN BE SUPPLIED IN PLACE OF A 150W FLOOD LAMP).

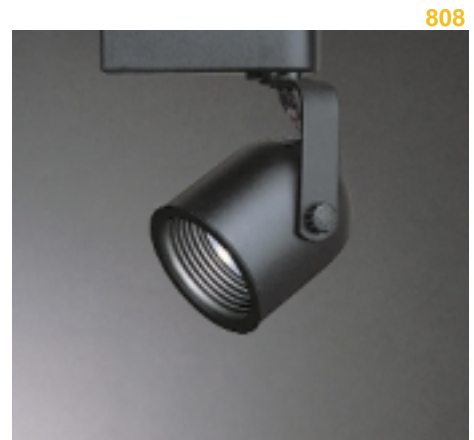
■ PROVIDE A WHITER, TRUER LIGHT THAN ANY OTHER LIGHT SOURCE.

■ SMALLER SIZE IS OFTEN AN ADVANTAGE FOR USE IN DISPLAY WORK, ART GALLERIES AND OTHER ACCENT LIGHT APPLICATIONS.

■ W.A.C. LOW VOLTAGE TRACK HEADS ARE EQUIPPED WITH ELECTRONIC TRANSFORMERS THAT GENERALLY WILL WORK WITH INCANDESCENT DIMMERS.



900



808



801/801BD**

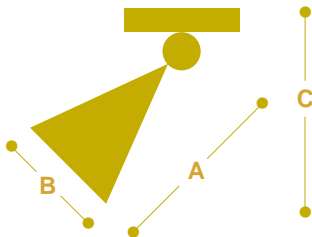


809



901

A LENGTH B DIAMETER C MAX EXTENSION



2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES				LAMPS		DIMENSIONS			
			BK	WT	GL/BK	GL/WT	MR16	PAR 36 - 12V	A	B	C	
LHT-801	HHT-801	JHT-801	•	•			20W-50W-75W*			3"	2 1/2"	5 3/16"
LHT-808	HHT-808	JHT-808	•	•			20W-50W-75W*			3 1/4"	2 3/4"	5 5/8"
LHT-809	HHT-809	JHT-809	•	•	•	•	20W-50W-75W*			3 1/8"	2 1/4"	5 1/4"
LHT-900	HHT-900	JHT-900	•	•			20W-50W-75W*			3 1/4"	2 1/2"	6"
LHT-901	HHT-901	JHT-901	•	•				36W-50W-75W*		3 1/4"	4 1/2"	7 7/8"

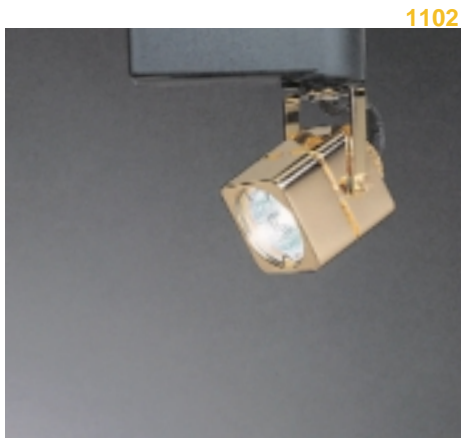
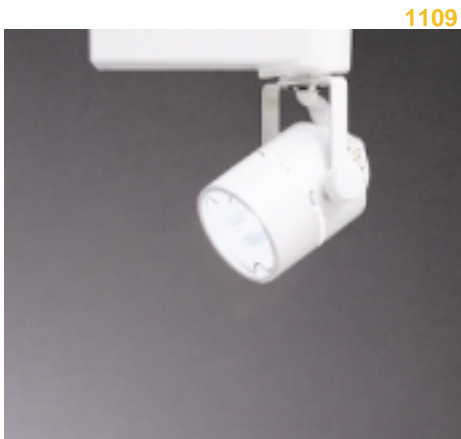
FINISH KEY: BK - BLACK • WT - WHITE • GL/BK - BLACK W/GOLD HEAD • GL/WT- WHITE W/GOLD HEAD

*WHEN ORDERING 75W CONFIGURATION ADD "L" TO FIXTURE MODEL NUMBER (IE: HHT-808L)

ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON OTHER MANUFACTURERS "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)

**SHOWN WITH OPTIONAL BARN DOORS (801BD). BARN DOORS AVAILABLE IN BLACK AND WHITE

LOW VOLTAGE TRACK HEADS



■ HHT-1102 AND HHT-1109 WERE DESIGNED TO UTILIZE THE COMPACT MR11 LAMP. ■ FIXTURES ARE SMALLER IN SIZE TO WORK PERFECTLY WITH THE SMALL POWERFUL LIGHT SOURCE.

2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES				LAMPS		DIMENSIONS		
			BK	WT	GL/BK	GL/WT	MR16	MR11	A	B	C
LHT-180	HHT-180	JHT-180	•	•			MR16		4"	2 1/8"	5 5/8"
LHT-802	HHT-802	JHT-802	•	•	•	•	MR16		3"	2 1/4"	5 5/16"
LHT-1102	HHT-1102	JHT-1102	•	•	•	•		MR11	2 3/8"	1 5/8"	4 1/2"
LHT-1109	HHT-1109	JHT-1109	•	•	•	•		MR11	2 3/8"	1 5/8"	4 1/2"

FINISH KEY: BK - BLACK • WT - WHITE • GL/BK - BLACK W/GOLD HEAD • GL/WT- WHITE W/GOLD HEAD
 *WHEN ORDERING 75W CONFIGURATION ADD "L" TO FIXTURE MODEL NUMBER (IE: HHT-180L).
 ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON OTHER MANUFACTURERS "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)





DIECAST LINE VOLTAGE TRACK HEADS

150*



753



754



755



■ THE WALL WASH UNIT FEATURES AN ALL DIECAST BODY AND BAFFLE. THE BAFFLE/LENS UNIT SNAPS OUT FOR RELAMPING. ■ ALL OF OUR LINE VOLTAGE CAST TRACK HEADS FEATURE RELAMPING FROM THE FRONT WITHOUT THE USE OF TOOLS. ■ NO EXPOSED WIRING.

L



H



J



2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES		LAMPS			DIMENSIONS			
			BK	WT	J-200-S	PAR 20	PAR 30	PAR 38	A	B	C
LTK-150	HTK-150	JTK-150	•	•	200W				3 1/2"	5"	7"
LTK-753	HTK-753	JTK-753	•	•		20-50W			4 7/8"	3 3/8"	6 1/4"
LTK-754	HTK-754	JTK-754	•	•			50-75W		5 1/4"	4 5/8"	7 1/2"
LTK-755	HTK-755	JTK-755	•	•				45-150W	6 1/2"	6"	9"

FINISH KEY: BK - BLACK • WT - WHITE

ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON OTHER MANUFACTURERS "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)

*FIXTURE IS SUPPLIED WITH A 200W LAMP. WHITE FIXTURE IS AVAILABLE ONLY WITH BLACK BAFFLE.

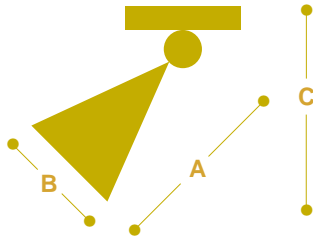
DIECAST LINE VOLTAGE TRACK HEADS

■ OUR EXCLUSIVE NEW DIECAST ALUMINUM OPEN BACK STYLE AND STEP BACK SERIES WERE DESIGNED FOR USE WITH HALOGEN PAR LAMPS. SOCKETS ARE "LOCKED" IN PLACE. ■ THE PATENTED CAST SWIVEL, STEM AND LOCKING KNOB PROVIDE POSITIVE AIMING AND HOLD THE HEADS FIRMLY IN PLACE.

738



A LENGTH B DIAMETER C MAX EXTENSION



730



720



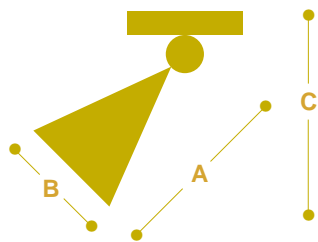
2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES		LAMPS			DIMENSIONS			
			BK	WT	PAR 20	PAR 30	PAR 38	A	B	C	
LTK-720	HTK-720	JTK-720	•	•	20W-50W				4 7/8"	3 3/8"	6 1/4"
LTK-730	HTK-730	JTK-730	•	•		50-75W			5 1/4"	4 3/4"	7 1/2"
LTK-738	HTK-738	JTK-738	•	•			45-150W		6 1/2"	6"	9"

FINISH KEY: BK - BLACK • WT - WHITE

ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON OTHER MANUFACTURERS "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)

LINE VOLTAGE TRACK HEADS

A LENGTH B DIAMETER C MAX EXTENSION



	2-WIRE	3-WIRE	WIDE2-WIRE	FINISHES		LAMPS					DIMENSIONS			
				BK	WT	R20	R30	R40	A	PAR 20	PAR 30	PAR 38	A	B
LTK-178	HTK-178	JTK-178		• •	20-50W	50-100W	75-150W	40-150W	20-50W	50-75W	45-150W	2"	1 11/16"	3 1/2"
LTK-701	HTK-701	JTK-701		• •	20-50W			40-60W	20-50W			6"	3 1/2"	8 1/2"
LTK-702	HTK-702	JTK-702		• •	20-50W			40-60W	20-50W			6"	3 1/2"	8 1/4"
LTK-703	HTK-703	JTK-703		• •		50-100W		40-100W		50-75W		6 1/2"	4 1/2"	9 1/2"
LTK-704	HTK-704	JTK-704		• •		50-100W		40-100W		50-75W		7"	4 1/2"	9 1/2"
LTK-705	HTK-705	JTK-705		• •			75-150W				45-150W	8 1/4"	5 3/4"	12 1/2"
LTK-706	HTK-706	JTK-706		• •			75-150W				45-150W	8"	6"	12 1/2"
LTK-718	HTK-718	JTK-718		• •		50-100W		40-100W		50-75W		7"	4 1/2"	9"

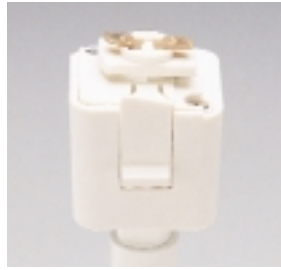
FINISH KEY: BK - BLACK • WT - WHITE

ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON ANY "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)

LINE VOLTAGE TRACK HEADS

■ THE SIMPLE DESIGN COMBINED WITH THE LATEST TECHNOLOGY IN LAMPS MAKE THE GIMBAL RING TRACK HEADS (743/744/745) IDEAL FOR COMMERCIAL APPLICATIONS OR ANYWHERE ACCENT LIGHTING IS DESIRED. ■ THE 188 ADJUSTS TO ACCOMMODATE A WIDE VARIETY OF LAMPS MAKING IT PERFECT FOR DISPLAY WORK.

L



H



J



188



725



123*



743



744



745



2-WIRE			3-WIRE			WIDE 2-WIRE			FINISHES		LAMPS					DIMENSIONS		
			BK	WT	A	R LAMPS	"J" 118MM	PAR16	PAR 20	PAR 30	PAR 38	A	B	C				
LTK-123	HTK-123	JTK-123	•	•			300W					9"	12"	11"				
LTK-188	HTK-188	JTK-188	•	•	40-150W	20-150W		40-75W	20-50W	50-75W	45-150W	4 3/4"	2"	7 1/8"				
LTK-725	HTK-725	JTK-725	•	•	40-60W	20-50W			20-50W			5 1/8"	2 7/8"	8"				
LTK-743	HTK-743	JTK-743	•	•					20-50W			4 1/8"	2 3/4"	7 1/2"				
LTK-744	HTK-744	JTK-744	•	•						50-75W		5 1/4"	4"	9 1/2"				
LTK-745	HTK-745	JTK-745	•	•							45-150W	7 1/4"	5"	10 3/4"				

FINISH KEY: BK - BLACK • WT - WHITE

*123 SUPPLIED WITH BARN DOORS • AVAILABLE IN BLACK OR WHITE • SUPPLIED WITH A 300W BULB

DIMENSIONS FOR 123 ARE WITH BARN DOORS FULLY EXTENDED

ALL WIDE 2 WIRE TRACK HEADS CAN BE INSTALLED ON ANY "J" STYLE 2 CIRCUIT TRACK WITH THE ADDITION OF THE JCLIP (SEE PAGE 19)

TRACK ACCESSORIES

LT, HT, JT 2•4•6•8

■ EASILY INSTALLED ON SHEETROCK, PLASTER, WOOD OR SUSPENDED CEILINGS. MAY BE SUSPENDED ON W.A.C. 18" 24", 36", OR 48" STEMS (SEE PAGE 21 FOR ORDERING INFORMATION) ■ ELECTRICAL CONNECTIONS AVAILABLE TO SUPPLY POWER ANYWHERE ON A SINGLE TRACK OR A RUN* ■ TWO END CAPS AND MOUNTING HARDWARE SUPPLIED WITH EACH SECTION ■ EASILY CUT TO SHORTER LENGTHS IN THE FIELD.



"LT" 2-WIRE

"HT" 3-WIRE

"JT" WIDE 2-WIRE



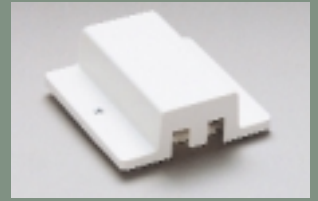
2-WIRE	3-WIRE	WIDE 2-WIRE	FINISHES		DESCRIPTIONS
			BK	WT	
LT2	HT2	JT2	•	•	TWO-FOOT TRACK • ACTUAL LENGTH 23 3/4", HEIGHT 3/4", WIDTH 1 3/8"
LT4	HT4	JT4	•	•	FOUR-FOOT TRACK • ACTUAL LENGTH 47 1/4", HEIGHT 3/4", WIDTH 1 3/8"
LT6	HT6	JT6	•	•	SIX-FOOT TRACK • ACTUAL LENGTH 71", HEIGHT 3/4", WIDTH 1 3/8"
LT8	HT8	JT8	•	•	EIGHT-FOOT TRACK • ACTUAL LENGTH 94 1/2", HEIGHT 3/4", WIDTH 1 3/8"

FINISH KEY: BK - BLACK • WT - WHITE

*USED IN CONJUNCTION WITH A LIVE END, A BX STYLE LIVE END OR A FLOATING CANOPY.

TRACK ACCESSORIES

DESCRIPTIONS	2-WIRE	3-WIRE	WIDE 2-WIRE
FLOATING CANOPY CONNECTOR • CONNECTS TO OUTLET BOX. ALLOWING TRACK TO BE POWERED ANYWHERE ALONG THE LENGTH OF THE TRACK	LFC 4 1/2"X4 1/2"	HFC 4 1/4"X4 1/4"	JFC 4 5/8"X4 5/8"
"I" CONNECTOR • STRAIGHT LINE CONNECTOR USED TO JOIN TWO SECTIONS OF TRACK	LI 3"	HI 3 1/8"	JI 3"
"I" DEAD END STRAIGHT LINE CONNECTOR • USED AS CONNECTOR WHERE POWER IS NOT TO GO THROUGH	N/A	HI-DEC 3 1/8"	JI-DEC 3"
"I" STRAIGHT LINE POWER CONNECTOR • USED TO SUPPLY POWER FROM THE SOURCE AT THE JUNCTION OF TWO TRACKS	LI-PWR 6 3/4"	HI-PWR 7"	JI-PWR 7 1/8"
LIVE END CONNECTOR • USED FOR DIRECT WIRING FROM CONDUIT THROUGH THE CEILING	LLE 4 1/4"	HLE 4 1/4"	JLE 4 3/4"
MONOPOINT CANOPY ADAPTER • USED TO MOUNT A SINGLE TRACK FIXTURE TO AN OUTLET BOX.	LMP 4 3/8" DIAMETER		JMP 4 3/4" DIAMETER
MONOPOINT CANOPY ADAPTER • USED TO MOUNT A SINGLE TRACK FIXTURE TO ALL 3-WIRE TRACK FIXTURES		HMP 4 5/8"X4 5/8"	



ALL ACCESSORIES AVAILABLE IN BK - BLACK OR WT - WHITE

TRACK ACCESSORIES



DESCRIPTIONS

BX CONNECTOR

•BX CABLE - LIVE END CONNECTOR
ALSO ADAPTABLE FOR USE WITH
ROMEX WITH PROPER CONNECTOR

2-WIRE

LBXLE

6"

3-WIRE

HBXLE

5 3/4"

WIDE 2-WIRE

JBXLE

6 1/4"



15' CORD, MALE PLUG

•USED WITH LIVE END CONNECTOR TO WIRE
A SECTION OF TRACK AS A PORTABLE UNIT.
MAXIMUM CAPACITY 7 AMP - 800 W - 120 V

HCORD

HCORD



15' CORD, MALE PLUG AND SWITCH

•USED WITH LIVE END CONNECTOR TO WIRE
A SECTION OF TRACK AS A PORTABLE UNIT.
MAXIMUM CAPACITY 7 AMP - 800 W - 120 V

LCORDSET



FLEXIBLE TRACK CONNECTOR

•CONNECTS TWO TRACK SECTIONS AT
VARIABLE ANGLES FROM 60° TO 180°.
USED AS A TRANSITION FROM WALL TO
WALL OR WALL TO CEILING OR CEILING
TO CEILING

LFLX

11"

HFLX

9 3/4"

JFLX

8 1/2"



"L" LIVE END CONNECTOR

•USED TO JOIN TWO TRACK SECTIONS
TO MAKE A 90° ANGLE

LL

2 3/4" X 2 3/4"

HL

4 1/4" X 4 1/4"

JL

4 1/4" X 4 1/4"



"T" CONNECTOR

•USED TO JOIN THREE TRACK SECTIONS
TO MAKE A "T" CONFIGURATION

LT

4' X 2 3/4"

HT

7 1/4" X 4 1/4"

JT

7 1/8" X 4 1/4"



"X" CONNECTOR

•USED TO JOIN FOUR TRACK SECTIONS
TO MAKE AN "X" CONFIGURATION

LX

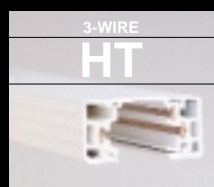
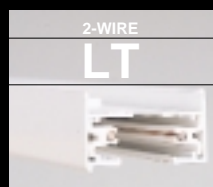
4 1/8" X 4 1/8"

HX

7 1/8" X 7 1/8"

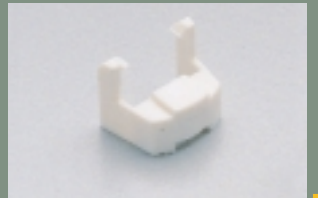
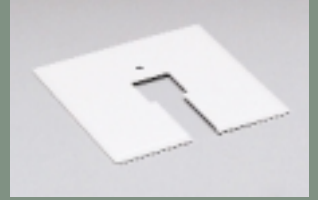
JX

7 1/8" X 7 1/8"



TRACK ACCESSORIES

DESCRIPTIONS	2-WIRE	3-WIRE	WIDE 2-WIRE
CANOPY PLATE •COVERS A STANDARD OUTLET BOX, ITEM USED IN CONJUNCTION WITH LLE, LFLX, HLE, HFLX, HL, HT, HX, HI-PWR, JLE, JL, JFLX, JT, JX, JI-PWR	CP 4 1/2"X4 1/2"	CP 4 1/2"X4 1/2"	CP 4 1/2"X4 1/2"
RECEPTACLE •ACCEPTS 3 PRONGED ELECTRICAL APPLIANCES (FANS, ETC)	LREC 1"	HREC 2 1/8"	JREC 2 1/8"
SHOWROOM FIXTURE ADAPTER •PROVIDES AN OUTLET BOX FOR DISPLAYING ANY FIXTURE UP TO 35 LBS - FIXTURE CANOPY COVERS THE BOX	LFA 3 1/2"	HFA 3 1/2"	JFA 3 1/2"
SUSPENSION LOOP •ELECTRICAL • ACCEPTS CHAIN HUNG FIXTURES, 35 POUNDS MAXIMUM	L-LOOP 3"	H-LOOP 3"	J-LOOP 3"
T-BAR DROP CEILING ATTACHMENT •USED TO ATTACH TRACK TO T BAR DROP CEILINGS •USE TWO FOR 2' OR 4' TRACKS, THREE FOR 6' OR 8' TRACKS AVAILABLE IN BLACK ONLY	T-BAR CLIP	T-BAR CLIP	T-BAR CLIP
2-CIRCUIT TRACK CONVERSION CLIP •TO USE PULL UP THE CONNECTOR MARKED "P" AND SLIDE THE CLIP UNDER THE CONNECTOR WHICH LOCKS THE CONNECTOR INTO THE 2 CIRCUIT MODE. AVAILABLE IN WHITE ONLY	N/A	N/A	JCLIP



ALL ACCESSORIES EXCEPT THE T-BAR CLIP AND 2 CIRCUIT TRACK CONVERTER CLIP ARE AVAILABLE IN BLACK OR WHITE (SPECIFY)

TRACK ACCESSORIES



DESCRIPTIONS

COLOR LENSES

- REPLACES THE CLEAR LENS SUPPLIED WITH MR16 AND MR11 TRACK FIXTURES. ADDS DRAMATIC EFFECT.

MODEL

MR16

MR11

LENS-16

LENS-11

RED (RED), BLU (BLUE)
YEL (YELLOW), GRN (GREEN)
AMB (GOLDEN AMBER)



UV FILTER

- REPLACES STANDARD CLEAR LENS SUPPLIED WITH MR16 AND MR11 TRACK FIXTURES. REDUCES ULTRA VIOLET LIGHT TO PROTECT ARTWORK AND FABRICS FROM FADING.

LENS-16-UVF

LENS-11-UVF



HONEYCOMB LOUVER

- BLACK LOUVER SHIELDS LAMP AND REDUCES GLARE. USED INSIDE LENS HOLDER ON FIXTURES #826, #846, AND #1126

LENS-16-HCL

LENS-11-HCL



SPREAD LENS

- REPLACES STANDARD MR16 AND MR11 TRACK FIXTURE LENS. DIFFUSES AND SPREADS THE LIGHT IN AN EVEN OVERALL PATTERN.

LENS-16-SPR

LENS-11-SPR



BEAM ELONGATING LENS

- REPLACES STANDARD MR 16 AND MR11 TRACK FIXTURE LENS. DIRECTS THE LAMP BEAM TO CREATE A STRIP OF LIGHT.

LENS-16-BEL

LENS-11-BEL



LENS-CLIP

- SNAPS OVER AN MR16 LAMP AND HOLDS ANY LENS OR THE HONEYCOMB LOUVER FIRMLY IN PLACE. SHIPPED WITH A CLEAR LENS.

LENS-16-CLIP



SOLID BULB SHIELD

- SNAPS OVER AN MR11 OR MR16 BULB AND ELIMINATES GLARE FROM THE BACK OF THE BULB. USED WITH LHT, HHT AND JHT-204 AND SF-214

SBS-16

SBS-11



MESH BULB SHIELD

- SNAPS OVER AN MR11 OR MR16 BULB AND DIFFUSES GLARE FROM THE BACK OF THE BULB. USED WITH LHT, HHT AND JHT-204 AND SF-214

MBS-16

MBS-11

ACCESSORIES/COMPONENTS

SUSPENSION KITS



■ ALL TRACK SUSPENSION KITS ■
 STEM KIT CANOPY COVERS AN OUTLET BOX AND PROVIDES POWER, OR SUPPORTS THE WEIGHT OF THE TRACK
 ■ PARTS AND INSTRUCTIONS INCLUDED

EXTENSIONS



■ LOW VOLTAGE TRACK HEAD EXTENSIONS EXTEND ALL LOW VOLTAGE TRACK FIXTURES. (SEE PAGES 6-9)

EXTENSIONS



■ LINE VOLTAGE TRACK HEAD EXTENSIONS EXTEND ALL 3-WIRE LINE VOLTAGE TRACK FIXTURES. (SEE PAGES 12-15)

TBKT



■ TRACK BRACKET EXTENDS 24" FROM THE WALL. FOR USE WITH L, H OR J. TRACK POWERS FROM A LIVE END. USE TWO OR THREE PER TRACK LENGTH. SUPPORTS TRACK AND FIXTURE.

SK-14



■ SWIVEL ADAPTERS ARE AVAILABLE TO ACCOMMODATE SLOPED CEILINGS

SK05



■ ADAPTER KIT TO FIELD CUT SUSPENSION KITS AND EXTENSIONS. ALLOWS HEIGHT ADJUSTMENT WITHOUT RETAPING.

MODEL	FINISHES		DESCRIPTIONS
	BK	WT	
H18	•	•	USED TO EXTEND 3-WIRE HTK LINE VOLTAGE TRACK HEADS, SEE PAGES 12-15
H36	•	•	USED TO EXTEND 3-WIRE HTK LINE VOLTAGE TRACK HEADS, SEE PAGES 12-15
H48	•	•	USED TO EXTEND 3-WIRE HTK LINE VOLTAGE TRACK HEADS, SEE PAGES 12-15
SK05	•	•	ALLOWS HEIGHT ADJUSTMENT WITHOUT RETAPING
SK14	•	•	SLOPED CEILING ADAPTER • USED WITH SUSPENSION KITS TO ACCOMMODATE SLOPED CEILINGS - ORDER SEPARATELY • MAXIMUM CAPACITY 7 AMPS, 800 WATTS, 120 VOLTS
SK18*	•	•	18" TRACK SUSPENSION KIT. FOR POWER CONNECTIONS SEE FOOTNOTES
SK24*	•	•	24" TRACK SUSPENSION KIT. FOR POWER CONNECTIONS SEE FOOTNOTES
SK36*	•	•	36" TRACK SUSPENSION KIT. FOR POWER CONNECTIONS SEE FOOTNOTES
SK48*	•	•	48" TRACK SUSPENSION KIT. FOR POWER CONNECTIONS SEE FOOTNOTES
TBKT	•	•	USE TWO PER 4' LENGTH, THREE PER 8' LENGTH - SUPPORTS TRACK AND FIXTURES
X18**	•	•	18" EXTENSION • SPECIFY X18, FIXTURE STYLE AND FINISH • (IE: X18-HHT-802-BK)
X24**	•	•	24" EXTENSION • SPECIFY X24, FIXTURE STYLE AND FINISH • (IE: X24-HHT-802-BK)
X36**	•	•	36" EXTENSION • SPECIFY X36, FIXTURE STYLE AND FINISH • (IE: X36-HHT-802-BK)
X48**	•	•	48" EXTENSION • SPECIFY X48, FIXTURE STYLE AND FINISH • (IE: X48-HHT-802-BK)

FINISH KEY: BK - BLACK • WT - WHITE

*USE TWO SUSPENSIONS KITS FOR 2' AND 4' TRACKS, THREE KITS FOR 6' AND 8' TRACK SECTIONS. FOR 2 WIRE SYSTEMS FOR POWER ADD A LIVE END (LLE) OR FLEXIBLE CONNECTOR (LFLX) 3 WIRE OR WIDE 2 WIRE SYSTEMS CONNECT WITH (HLE) OR (JLE), (HI-PWR) OR (JI-PWR), (HFLX) OR (JFLX)

**ONLY AVAILABLE AS A COMPLETE UNIT FROM THE FACTORY.

PENDANT FIXTURES



■ OUR PENDANTS ARE ADAPTABLE TO ALL THREE OF OUR REGULAR TRACK SYSTEMS (L, H AND J). INFORMATION ON THE TRACK SYSTEMS IS FOUND ON PAGES 16-21. THE PENDANTS ARE ALSO ADAPTABLE TO MONOPOINTS AND AS PART OF OUR LINEAR SYSTEM. THE "CONNECTOR" TO ADAPT THE PENDANT FIXTURES TO THE VARIOUS TRACKS, MONOPOINTS, ETC. DIFFER REQUIRING THE PROPER CORD SET. THE "CORD SET" FOR EACH APPLICATION CONSISTS OF EVERYTHING NEEDED TO HANG THE PENDANT. IT IS AVAILABLE IN 48" AND 96" LENGTHS AND INCLUDES A 50 WATT HALOGEN BULB AND PROTECTIVE GLASS COVER, SEE PAGE 23. THE CORD IS EASILY FIELD SHORTENED AND A HANG STRAIGHT "TUBE" ACCESSORY IS AVAILABLE. THE TUBE IS ALSO DESIGNED TO BE CUT IN THE FIELD. "PENDANTS" ARE LOW VOLTAGE - JC50W MAX. AND ARE GENERALLY DIMMABLE WITH INCANDESCENT DIMMERS WHEN USED WITH W.A.C. ELECTRONIC TRANSFORMERS. MAGNETIC TRANSFORMERS REQUIRE A DIMMER SPECIALLY DESIGNED TO BE USED WITH MAGNETIC TRANSFORMERS. TO ORDER A PENDANT FIXTURE THE FIRST STEP IS TO DETERMINE THE HANGING METHOD I.E. TRACK HUNG, MONOPOINT, ETC. NEXT SELECT THE 48" OR 96" CORD SET IN BLACK OR WHITE AND FINALLY A GLASS OR SHADE. SPECIFICATIONS ON ALL OF THE PENDANT FIXTURE HANGING METHODS IS FOUND ON PAGE 25.

PENDANT FIXTURES

■ THE PD-G301 "DOME" AND THE PD-G302 "CONE" BOTH ARE TWO LAYERED CASED GLASS. THE WHITE LAYER OF GLASS ON THE INTERIOR PROVIDES A NATURAL HALOGEN WHITE LIGHT. ■ THE OUTER SHELL IS BLOWN IN VIVID BASIC COLORS OR ETCHED WHITE.



PD-G301 RED



PD-G301 YELLOW



PD-G301 WHITE



PD-G301 BLUE



PD-G301 GREEN



PD-G302 RED



PD-G302 YELLOW



PD-G302 WHITE



PD-G302 BLUE



PD-G302 GREEN



MODEL	DESCRIPTION	DIMENSIONS	
		LENGTH*	DIAMETER
PD-G301-BL	DOMES	4"	5 5/8"
PD-G301-GR	DOMES	4"	5 5/8"
PD-G301-RD	DOMES	4"	5 5/8"
PD-G301-WT	DOMES	4"	5 5/8"
PD-G301-YW	DOMES	4"	5 5/8"
PD-G302-BL	CONES	6"	5 3/4"
PD-G302-GR	CONES	6"	5 3/4"
PD-G302-RD	CONES	6"	5 3/4"
PD-G302-WT	CONES	6"	5 3/4"
PD-G302-YW	CONES	6"	5 3/4"

FINISH KEY: BL - BLUE • GR - GREEN • RD - RED • WT - WHITE • YW - YELLOW
 *THE LENGTH INCLUDES THE FITTER

PENDANT FIXTURES

■ MODEL PD-G303 IS AVAILABLE IN ETCHED TINTED SOFT PASTEL COLORS OR ETCHED WHITE. THE ETCHING OFFERS A SOFT DIFFUSED EXTERIOR LOOK WHILE THE HALOGEN BULB IS PROVIDING A HIGH LEVEL OF ILLUMINATION. ■ MODEL PD-G304 GOLD IS ELECTROPLATED WITH A 22 KARAT LUSTROUS FINISH. THE BRUSHED ALUMINUM FINISH IS BUFFED TO A SATINY FINISH AND FINISHED WITH A CLEAR LACQUER. BOTH FINISHES HAVE WHITE INTERIORS TO UTILIZE THE HALOGEN LIGHTING TO ITS MAXIMUM.

PD-G303 PINK



PD-G303 SEAFOAM GREEN



PD-G303 WHITE



PD-G304 BRUSHED ALUMINUM








PD-G304 GOLD



MODEL	DESCRIPTION	DIMENSIONS	
		LENGTH	DIAMETER
PD-G303-PK	INVERTED OPEN CONE	4 5/16"	5 5/16"
PD-G303-SE	INVERTED OPEN CONE	4 5/16"	5 5/16"
PD-G303-WT	INVERTED OPEN CONE	4 5/16"	5 5/16"
PD-G304-BA	METAL SHADE	3 3/4"	7 5/16"
PD-G304-GL	METAL SHADE	3 3/4"	7 5/16"

FINISH KEY: BA - BRUSHED ALUMINUM • GL - GOLD • PK - PINK • SE - SEAFOAM GREEN • WT - WHITE

PENDANT ACCESSORIES/COMPONENTS

<p>PD-MI48 PD-MI96</p> 	<p>48"/96" SOCKET SET WITH MINI-MONOPOINT DIAMETER 2 1/2", DEPTH 3/4" 12 VOLT, JC-50W LAMP SUPPLIED BK, WT, GL/BK, GL/WT</p>	<p>TRANSFORMER REQUIRED USE OUR EN12 SERIES,(PG. 57)</p>
<p>PD-ME48 PD-ME96</p> 	<p>48"/96" SOCKET SET WITH ELECTRONIC 50W TRANSFORMER DIAMETER 4 1/2", DEPTH 1 1/4" 12 VOLT, JC-50W LAMP SUPPLIED BK, WT, GL/BK, GL/WT</p>	<p>TRANSFORMER NOT REQUIRED 50 WATT TRANSFORMER IS SUPPLIED IN THE CANOPY.</p>
<p>PD-MO48 PD-MO96</p> 	<p>48"/96" SOCKET SET WITHOUT TRANSFORMER DIAMETER 4 1/2", DEPTH 1 1/4" 12 VOLT, JC-50W LAMP SUPPLIED BK, WT, GL/BK, GL/WT</p>	<p>TRANSFORMER REQUIRED USE OUR EN12 SERIES,(PG. 57)</p>
<p>PD-LHT48 PD-LHT96</p> 	<p>48"/96" SOCKET SET WITH TRANSFORMER FOR USE WITH "L" STYLE TRACK 12 VOLT, JC-50W LAMP SUPPLIED BK, WT</p>	<p>TRANSFORMER NOT REQUIRED 50 WATT TRANSFORMER IS SUPPLIED IN THE TRANSFORMER BOX.</p>
<p>PD-HHT48 PD-HHT96</p> 	<p>48"/96" SOCKET SET WITH TRANSFORMER FOR USE WITH "H" STYLE TRACK 12 VOLT, JC-50W LAMP SUPPLIED BK, WT</p>	<p>TRANSFORMER NOT REQUIRED 50 WATT TRANSFORMER IS SUPPLIED IN THE TRANSFORMER BOX.</p>
<p>PD-JHT48 PD-JHT96</p> 	<p>48"/96" SOCKET SET WITH TRANSFORMER FOR USE WITH "J" STYLE TRACK 12 VOLT, JC-50W LAMP SUPPLIED BK, WT</p>	<p>TRANSFORMER NOT REQUIRED 50 WATT TRANSFORMER IS SUPPLIED IN THE TRANSFORMER BOX.</p>
<p>PD-ST48 PD-ST96</p> 	<p>48"/96" SOCKET SET FOR LINEAR SYSTEM 12 VOLT, JC-50W LAMP SUPPLIED BK, WT</p>	<p>TRANSFORMER REQUIRED USE OUR EN12 SERIES (PG. 57) SST AND SRT ITEMS (PG. 32) OR THE SFC-150E (PG. 31).</p>
<p>PD-TU48 PD-TU96</p> 	<p>48"/96" HANG STRAIGHT TUBE ACCESSORY SLIPS OVER CORD TO OBTAIN A PERFECTLY STRAIGHT DROP. BK, WT</p>	

FINISH KEY: BK - BLACK • WT - WHITE • GL/BK - GOLD/BLACK • GL/WT - GOLD/WHITE



■ WAC LOW VOLTAGE LINEAR SYSTEM IS VERY VERSATILE. IT EMPLOYS LAMPS RANGING FROM 3 WATTS TO 50 WATTS AND ALLOWS JUST THE PERFECT LIGHTING LEVEL FOR A TREMENDOUS VARIETY OF APPLICATIONS IN RESIDENTIAL AS WELL AS COMMERCIAL JOBS. THE SYSTEM CONSISTS OF A MINIATURE TRACK THAT CAN BE INSTALLED ON OR OFF THE CEILING OR WALL OR REGRESSED FOR A "BUILT IN" LOOK. IT ALSO IS DESIGNED FOR COVES, SHELF'S, UNDERCABINETS AND OTHER HIDDEN AREAS WHERE INDIRECT, OR TRACK LIGHTING IS CALLED FOR IN A SMALL SPACE. THE SMALL HALOGEN FIXTURES AND THE XENON BULB FIXTURES MAY BE SPREAD ANYWHERE ALONG THE TRACK AND LAMPED TO PROVIDE A HIGH LEVEL OF ILLUMINATION OR JUST A SUBTLE GLOW. TRANSFORMERS ARE AVAILABLE IN ELECTRONIC AND MAGNETIC STYLES RANGING IN SIZE FROM 60W TO 500W AND THE LARGER MAGNETICS ARE DUAL VOLTAGE - 12V OR 24V. BULBS ARE FOUND ON PAGE 29 AND THE TRANSFORMERS ARE FOUND ON PAGES 31, 32 AND 57. WE HAVE OFFERED SOME GUIDELINES ON LAMP SPACING, WATTAGES AND LUMEN LEVELS ACHIEVED, (PAGES 27-29) HOWEVER CEILING, WALL, CABINET AND COUNTERTOP COLORS WILL ALL AFFECT THE LIGHTING LEVEL.

LINEAR SYSTEM SMALL HALOGEN FIXTURES

SF-214**



■ THE "FLEXIBLE" ARM ALLOWS LIGHT TO BE DIRECTED EXACTLY WHERE NEEDED. SOLID AND MESH BACK LIGHT SHIELDS ARE AVAILABLE. (SEE PAGE 20)

SF-211



■ GIMBAL RINGS - OUR MINI HIGH TECH LOOK LINEAR SYSTEM HEAD PROVIDES 20W-35W MR11 HALOGEN LIGHTING IN A COMPACT FORM. A VARIETY OF LENSES ARE AVAILABLE. (SEE PAGE 20)

SF-209



■ OUR LINEAR SYSTEM VERSION OF OUR MOST POPULAR TRACK LIGHTING STYLE PROVIDES A "TAILORED LOOK" WITH HALOGEN MR11 LIGHTING. OUR VARIETY OF ACCESSORY LENS ITEMS IS ON PAGE 20.

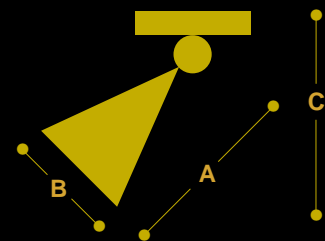
SF-216



■ THE MR16 VERSION OF THE GIMBAL RING LINEAR SYSTEM LIGHT SOURCE OFFERS HALOGEN LIGHTING IN A WIDE VARIETY OF LAMPS IN 20W TO 50W IN FLOODS AND SPOTS. SEE PAGE 20 FOR COLOR LENSES, HONEYCOMB LOUVERS, ETC.

■ A MEDIUM TO HIGH LEVEL OF LIGHT IS PRODUCED ON COUNTER TOPS WITH 20 WATT LAMPS SPACED AT 8" TO 12" INTERVALS. FOR "FRONT LIGHTING" A DISPLAY THE MR16 WILL PROVIDE HIGHER LEVELS OF LIGHT. ■ PERFORMANCES OF THE MR11 AND MR16 LAMPS ARE FOUND ON PAGE 58. OUR ELECTRONIC TRANSFORMERS GENERALLY WILL OPERATE PERFECTLY WITH INCANDESCENT DIMMERS. ■ WHEN USING THE MAGNETIC TRANSFORMER A DIMMER DESIGNED FOR MAGNETIC TRANSFORMERS WILL BE REQUIRED. OUR ENTIRE LINE OF TRANSFORMERS IS LOCATED ON PAGE 57.

A LENGTH B DIAMETER C MAX EXTENSION



MODEL	FINISHES				LAMPS***		DIMENSIONS		
	BK	WT	GL/BK	GL/WT	MR16	MR11	A	B	C
SF-209	•	•	•	•		20W-35W	2 1/4"	1 5/8"	3 7/8"
SF-211	•	•				20W-35W	2"	1 1/2"	2"
SF-214	•	•			20W*-50W*	20W*-35W*			18"
SF-216	•	•			20W-50W		2 1/8"	4"	4 3/4"

FINISH KEY: BK - BLACK • WT - WHITE • GL/BL - GOLD BLACK • GL/WT - GOLD WHITE

*USE "G" STYLE MR11/16 LAMPS OR ADD ACCESSORY LENS 16 CLIP WITH A SPECIALTY GLASS LENS OR LOUVER FOUND ON (PAGE 20) THE LENS CLIP INCLUDES A CLEAR GLASS LENS.

**ILLUSTRATED WITH A SOLID BACK LIGHT SHIELD (SEE PAGE 20)

***MR16 AND MR11 LAMPS ARE AVAILABLE IN 12 VOLT ONLY.

LINEAR SYSTEM XENON BULB FIXTURES

SBH-101



■ SINGLE LAMPHOLDER FOR WEDGE BASE XENON BULBS PROVIDES EASY LAMPING. SPACED ALONG THE TRACK AT VARYING INTERVALS TO ACHIEVE WHATEVER LIGHTING LEVEL IS DESIRED.

SBH-102



■ DOUBLE LAMPHOLDERS FOR XENON WEDGE BASE LAMPS. ANODIZED ADJUSTABLE ALUMINUM REFLECTOR MAXIMIZES THE LIGHT OUTPUT.

SBH-105



■ OUR TINY ADJUSTABLE REFLECTOR FIXTURE PROVIDES A HIGH LEVEL OF LIGHTING EXACTLY WHERE IT IS NEEDED. THE 15W AND 20W BI-PIN XENON LAMPS HAVE LUMEN OUTPUTS OF 144 AND 192. SWIVEL ALLOWS LEFT TO RIGHT ADJUSTMENT AND THE REFLECTOR ADJUSTS 180°.

SBH-106

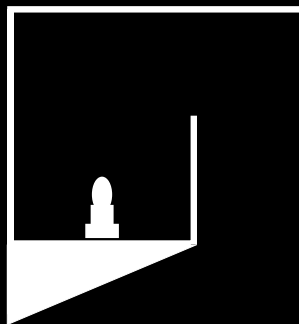


■ THE HOODED FIXTURE CONTAINS AND DIRECTS THE LIGHT IN ANY DIRECTION. THE 15W OR 20W BI-PIN XENON LAMP PROVIDES EXCELLENT LIGHTING FOR COUNTER TOP TASKS.

SBH-110



■ RIGID LOOP FIXTURE 5W-10W LAMP SNAPS IN AND PROVIDES HIGH LEVELS OF LIGHT COMBINED WITH LONG LIFE AND A WHITE COLOR SIMILAR TO HALOGEN. IDEAL FOR USE IN COVES WHERE A HIGHER LEVEL OF LIGHT IS DESIRED. RIGID LOOP LAMPS RESIST SHOCK, VIBRATION AND MOISTURE.



■ ABOVE CABINET. SAME SPACING GUIDELINES AS FOR COVES. TRACK SHOULD BE INSTALLED NEAR THE FRONT OF THE CABINET TO LIGHT MORE OF THE CEILING.

■ IN CABINET. IF POSSIBLE MOUNTING THE TRACK VERTICALLY AVOIDS THE NEED FOR TRACKS ON THE SHELF. 3W LAMPS SPACED 3" APART IS RECOMMENDED. ■ SPACE CLOSER OR FURTHER APART FOR MORE OR LESS LIGHT.

■ UNDER CABINET. LAMPS FROM 3W TO 20W AND TRANSFORMERS RATED FROM 60W TO 500W OFFER GREAT FLEXIBILITY. 5W XENON LAMPS 2" TO 3" APART WILL USUALLY PROVIDE ADEQUATE TASK LIGHTING. ■ RIGID LOOP OR BI-PIN LAMPS SPACED ABOUT 10" APART WILL PRODUCE HIGHER LEVELS.

■ TOE SPACE. TO ACHIEVE A SOFT SMOOTH GLOW UNDER A COUNTER OR BOOKCASE USE 3W XENON BULBS ON 4" CENTERS. ■ IF LESS LIGHT IS DESIRABLE, SPREAD THE LAMPS 6" TO 8".

■ COVE LIGHTING. FOR A UNIFORM WASH OF LIGHT WHEN UPLIGHTING FROM A COVE THE LAMPHOLDERS SHOULD BE SPACED CLOSE TOGETHER. ■ IDEALLY NO MORE THAN TWICE THE DISTANCE TO THE SURFACE BEING LIGHTED. THE LAMPS SHOULD BE AT LEAST 4" FROM THE CEILING AND 2" TO 6" FROM THE WALL. THE WATTAGE WILL DEPEND ON THE DISTANCE THE LAMPS ARE FROM THE SURFACE, THE COLOR OF THE CEILING OR WALL AND THE AMOUNT OF AMBIENT LIGHTING PRESENT. ■ PAGE 29 DETAILS THE LUMEN OUTPUT OF OUR VARIOUS BULBS AND SUGGESTED SPACING TO ACHIEVE THE DESIRED LIGHTING LEVEL.

MODEL	FINISHES		LAMPS			DIMENSIONS		
	BK	WT	WEDGE	BIPIN	RIGID LOOP	LENGTH	WIDTH	DEPTH
SBH-101	•	•	3W-5W*-7.5W*			3/8"	5/8"	1 1/2"
SBH-102	•	•	3W-5W*-7.5W*			2 5/8"	1"	5/8"
SBH-105	•	•		15W*-20W*		2 7/8"	1"	1 3/8"
SBH-106	•	•		15W*-20W*		1 3/8"	1 1/2"	3 1/4"
SBH-110	•	•			5W*-10W*	2 1/8"	1/2"	5/8"

FINISH KEY: BK - BLACK • WT - WHITE

*SPECIFY VOLTAGE OF THE LAMPS TO COINCIDE WITH THE TRANSFORMER BEING USED.

LINEAR SYSTEM XENON BULBS

■ OUR WIDE VARIETY OF XENON BULBS, FIXTURES AND TRANSFORMERS PROVIDE LIGHTING LEVELS FOR VIRTUALLY ANY APPLICATION CALLING FOR A SMALL LIGHT SOURCE ■ THE LINEAR SYSTEM IS DESIGNED FOR 12V OR 24V XENON LAMPS. (THE SYSTEM ALSO ACCEPTS HALOGEN MINI-TRACK HEADS (PAGE 27) AND HALOGEN PENDANTS (PAGES 22-25) ■ XENON BULBS PROVIDE LONG LIFE, A WHITE COLOR SIMILAR TO HALOGEN, AND HIGH INTENSITY ■ 12V LAMPS WORK WELL FOR SMALL TO MEDIUM JOBS, THE 24V LAMPS SHOULD BE USED FOR LONGER RUNS SUCH AS IN LARGER AREAS EMPLOYING COVES AND EXTENDED CORRIDORS.

■ HOW TO: IDENTIFY LENGTH OF RUNS. IF A RUN EXCEEDS THE MAXIMUM LENGTH ON OUR CHART, DIVIDE INTO ALLOWABLE EQUAL SECTIONS. ONE END FEED IS REQUIRED FOR EACH RUN. ■ DETERMINE THE WATTAGE BY MULTIPLYING THE SPACING PER



FOOT TIMES THE LAMP SELECTED. SELECT A TRANSFORMER. ■ THE TRANSFORMER MAY POWER SEVERAL RUNS. A BRIGHTLY LIT CEILING REQUIRES ABOUT 20 FOOTCANDLES IN THE COVE- A DIMLY LIT CEILING ABOUT 10 FOOTCANDLES.

■ COVE LIGHTING: THE FORMULA FOR DETERMINING THE PROPER LUMENS PER FOOT IS:

$$\text{DESIRED} = \frac{\left[\left(\frac{\text{SQ. FT. OF CEILING TO BE LIGHTED}}{\text{LENGTH OF THE LIGHTED COVE}} \right) \times \left(\frac{\text{DESIRED BRIGHTNESS OF THE COVE}}{\text{LUMENS/FT}} \right) \right] \times 2}{\text{LUMENS/FT}}$$

GUIDELINE*			12 VOLT			24 VOLT		
SPACING	WATT	LAMP	MAX RUN	WATTS/FT	LUMENS/FT	MAX RUN	WATTS/FT	LUMENS/FT
3"	3W	WEDGE	20'	12	56	-	-	-
3"	5W	WEDGE	12'	20	124	24'	20	144
3"	7.5W	WEDGE	-	-	-	16'	30	252
3"	5W	RIGID LOOP	12'	20	176	24'	20	156
3"	10W	RIGID LOOP	6'	40	384	12'	40	348
6"	3W	WEDGE	40'	6	28	-	-	-
6"	5W	WEDGE	24'	10	62	48'	10	72
6"	7.5W	WEDGE	-	-	-	32'	15	126
6"	5W	RIGID LOOP	24'	10	88	48'	10	78
6"	10W	RIGID LOOP	12'	20	192	24'	20	174

MODEL	DESCRIPTION					
	CL FR	VOLTAGE	WATTAGE	BASE	LUMENS	AVE LIFE/HRS
T3-3-12V	• •	12	3	WEDGE	14	30000
T3-5-12V	• •	12	5	WEDGE	31	12000
T3-5-24V	• •	24	5	WEDGE	36	10000
T3-7.5-24V	• •	24	7.5	WEDGE	63	10000
BP-15-12V**	• •	12	15	BI-PIN	144	10000
BP-15-24V**	• •	24	15	BI-PIN	144	10000
BP-20-12V**	• •	12	20	BI-PIN	192	5000
BP-20-24V**	• •	24	20	BI-PIN	192	5000
XL-5-12V	• •	12	5	RIGID LOOP	44	20000
XL-5-24V	• •	24	5	RIGID LOOP	39	20000
XL-10-12V	• •	12	10	RIGID LOOP	96	20000
XL-10-24V	• •	24	10	RIGID LOOP	87	20000

FINISH KEY: CL - CLEAR • FR - FROSTED
 XENON BULBS DO NOT REQUIRE SHIELDING
 *DATA BASED ON 12 GAUGE SOLID COPPER CONDUCTORS WITH A MAXIMUM OF 240W ON A RUN FOR 12 VOLT SYSTEMS AND 480W ON A RUN FOR 24 VOLT SYSTEMS. (LONGER DISTANCES ON BOTH SYSTEMS ARE ACHIEVED BY THE USE OF MULTIPLE TRANSFORMERS PLACED ALONG THE RUN.
 **USED IN THE UNSHIELDED SBH-105 AND SBH-106 FIXTURES. THE XENON BI-PINS CAN ALSO BE USED IN OTHER BI-PIN FIXTURES WHERE LONGER BURNING LIFE OUTWEIGHS LUMEN OUTPUT.

LINEAR SYSTEM TRACK AND COMPONENTS

■ OUR LINEAR SYSTEM TRACK AND COMPONENTS HAVE BEEN DESIGNED TO BE USED IN MUCH THE SAME WAY AS STANDARD FULL SIZE SYSTEMS. THE TRACK EMPLOYS 12 GAUGE SOLID COPPER CONDUCTORS AND HAS A CAPACITY OF 20 AMPS. IT IS EXTRUDED OF A UNIQUE POLYCARBONATE FORMULA FOR MAXIMUM DURABILITY AND RESISTANCE TO DISCOLORATION OVER THE YEARS OF ITS USE. EACH SECTION OF TRACK IS SUPPLIED WITH ONE END CAP AND MOUNTING HARDWARE. ■ THE TRACK CAN BE CUT IN THE FIELD, EASILY INSTALLED USING NAILS, SCREWS OR STAPLES ON THE SURFACE OR REGRESSED AND ACCESSORIES ARE AVAILABLE TO SUSPEND THE TRACK FROM THE CEILING OR THE WALL (SEE PAGE 32).

ST4, ST8



SI



■ "I" CONNECTOR STRAIGHT LINE CONNECTOR USED TO JOIN TWO SECTIONS OF TRACK.

SL



■ "L" CONNECTOR USED TO JOIN TWO TRACK SECTIONS TO MAKE A 90° ANGLE.

SEC



■ END CAP AN ADDITIONAL END CAP IS USED WHEN A TRACK IS CUT INTO TWO OR MORE SECTIONS.

SLE



■ LIVE END CONNECTOR USED TO SUPPLY POWER FROM AN IN-LINE SURFACE MOUNTED OR REMOTE TRANSFORMER.

MODEL	FINISHES		DESCRIPTION	DIMENSIONS		
	BK	WT		LENGTH	WIDTH	DEPTH
SEC	•	•	END CAP	1"	3/4"	3/8"
SI	•	•	STRAIGHT LINE CONNECTOR	2 1/8"	3/4"	3/8"
SL	•	•	"L" CONNECTOR	1 7/8" X 1 7/8"	3/4"	3/8"
SLE	•	•	LIVE END CONNECTOR	2 3/8"	3/4"	3/8"
ST4	•	•	FOUR FOOT TRACK	48"	3/4"	3/8"
ST8	•	•	EIGHT FOOT TRACK	96"	3/4"	3/8"

FINISH KEY: BK - BLACK • WT - WHITE

LINEAR SYSTEM TRACK AND COMPONENTS

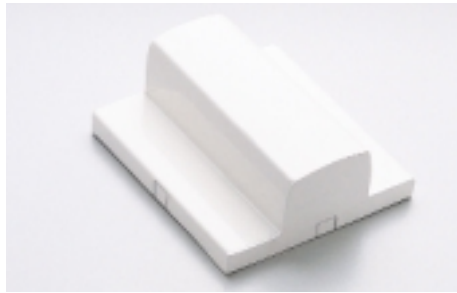
SJS



■ JUMPER SET DESIGNED TO BE USED AS A BRIDGE IN INSTALLATIONS THAT PROHIBIT A CONTINUOUS RUN.

■ EQUIPPED WITH 12" OF "JUMPER" WIRE WHICH CAN EASILY BE SHORTENED IN THE FIELD.

SFC-150E



■ FLOATING CANOPY CONNECTOR WITH TRANSFORMER. MOUNTS OVER OUTLET BOX OR ANYWHERE ALONG THE TRACK. A 150 WATT TRANSFORMER IS SUPPLIED IN THE CANOPY. KNOCKOUTS ARE PROVIDED ON ALL FOUR SIDES TO FEED THE TRACK SECTIONS. A LIVE END CONNECTOR IS REQUIRED FOR EACH TRACK SECTION. THE LIVE END IS INSTALLED UNDER THE FLOATING CANOPY.

■ ADAPTABLE FOR T-BAR CEILINGS BY EMPLOYING ONE T-BAR CLIP UNDER THE CANOPY. MOUNTING HARDWARE IS INCLUDED.

SFC



■ FLOATING CANOPY CONNECTOR WITHOUT TRANSFORMER. MOUNTS OVER OUTLET BOX OR ANYWHERE ALONG THE TRACK. KNOCKOUTS ARE PROVIDED ON ALL FOUR SIDES TO FEED THE TRACK SECTION. A LIVE END CONNECTOR IS REQUIRED FOR EACH TRACK SECTION. THE LIVE END IS INSTALLED UNDER THE FLOATING CANOPY.

■ ADAPTABLE FOR T-BAR CEILINGS BY EMPLOYING ONE T-BAR CLIP UNDER THE CANOPY. MOUNTING HARDWARE IS INCLUDED.

MODEL	FINISHES		DESCRIPTION	DIMENSIONS		
	BK	WT		LENGTH	WIDTH	DEPTH
SFC	•	•	FLOATING CANOPY WITHOUT TRANSFORMER	4 5/8"	4 5/8"	1/2"
SFC-150E	•	•	FLOATING CANOPY WITH 150W ELECTRONIC TRANSFORMER	5 1/2"	4 7/8"	2 1/8"
SJS	•	•	JUMPER SET	12"		

FINISH KEY: BK - BLACK • WT - WHITE

LINEAR SYSTEM ACCESSORIES & TRANSFORMERS

SCK



■ SCK CEILING SUSPENSION KIT CONSISTS OF TWO 4 3/4" CEILING CANOPIES*, 48" ADJUSTABLE AIRCRAFT CABLE AND HARDWARE, AND 48" OF FLEXIBLE CONDUIT AND WIRE FOR THE ELECTRICAL FEED. FOR STEM SUSPENSIONS ORDER SR-18", SR-24", SR-36" OR SR-48" KIT. POWER IS SUPPLIED THROUGH ONE OF THE TWO STEMS SUPPLIED IN THE KIT ■ USED WITH A REMOTE TRANSFORMER AND A 4' OR 8' TRACK AND TRACK CARRIER. POWER TO THE TRACK IS ACCOMPLISHED WITH A SLE LIVE END CONNECTOR. ADAPTABLE TO T-BAR CEILING - USE TWO T-BAR CLIPS UNDER EACH CANOPY. CANOPY AVAILABLE IN BK, WT, GL

SWB



■ SWB WALL MOUNT BRACKET FOR EXTENDING THE LINEAR TRACK 16" FROM THE WALL. USE TWO FOR EACH SECTION OF TRACK. ■ POWER IS SUPPLIED BY USE OF A SLE LIVE END CONNECTOR. MOUNTING HARDWARE IS INCLUDED. BK, WT

SC4, SC8



■ SC4/SC8 TRACK CARRIER WHEN INSTALLING A TRACK SECTION USING THE SUSPENSION KIT OR THE WALL BRACKETS THE TRACK CARRIER IS REQUIRED TO PROVIDE RIGIDITY AND A FINISHED LOOK. ■ THE CARRIER INCLUDES TWO END CAPS ADAPT-ABLE FOR USE WITH THE SLE LIVE END CONNECTOR EASILY CUT TO SHORTER LENGTHS IN THE FIELD. AVAILABLE IN 4' AND 8' LENGTHS, 1 1/8" X 5/8". AVAILABLE IN BK, WT, GL

STBC



■ STBC LINEAR SYSTEM T-BAR CLIP USE ONE CLIP EVERY TWO FEET. BK, WT

MIK



■ MIK MINI-MONOPOINT KIT ACCESSORY CONSISTS OF 2 2 1/2" CANOPIES (ONE PUNCHED FOR POWER CORD) FOR USE WITH THE SUSPENSION KITS IN PLACE OF STANDARD FULL SIZE CANOPIES. REMOTE TRANSFORMER REQUIRED. BK, WT, GL

SRT-250M

SRT-500M



■ SRT-250M/SRT-500M DUAL VOLTAGE (12V OR 24V) MAGNETIC TRANSFORMERS WITH 250W OR 500W CAPACITY. THE 250W TRANSFORMER CAN SERVICE TWO 125W, 12 VOLT CIRCUITS OR ONE 250W, 24 VOLT CIRCUIT. THE 500W TRANSFORMER CAN SERVICE TWO 250W, 12 VOLT CIRCUITS OR ONE 500W, 24 VOLT CIRCUIT. GRAY ONLY

SLB



■ SLB LIGHT BAFFLE 90° ANGLE SHIELDS THE TRACK FOR A HIDDEN LIGHT SOURCE UNDER CABINETS ETC. AVAILABLE IN 4' AND 8' LENGTHS CUTS TO SIZE ON THE JOB. ■ CONSTRUCTED OF ALUMINUM AFFORDING "PAINTING TO MATCH" IN THE FIELD. AVAILABLE IN WT OR GL

SST-60E

SST-150E



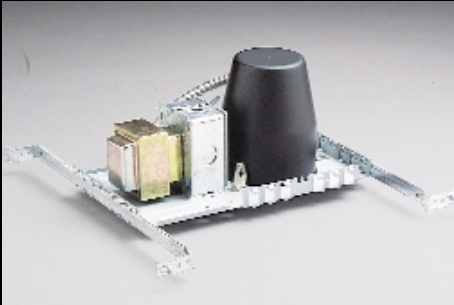
■ SST-60E/SST-150E 12 VOLT SURFACE MOUNTED ELECTRONIC TRANSFORMER IN 60 WATT OR 150 WATT CAPACITY FOR INSTALLATION AT THE END OF A TRACK OR REMOTE. ■ SEE PAGE 57 FOR DATA ON TRANSFORMER INSTALLATIONS. BK, WT

RECESSED LIGHTING

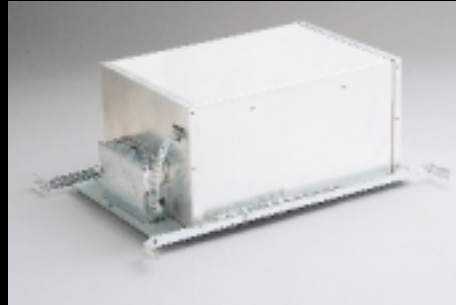


LOW VOLTAGE RECESSED LIGHTING

■ HOUSING TYPES W.A.C. OFFERS A VARIETY OF LOW VOLTAGE RECESSED FIXTURES TO SATISFY YOUR LIGHTING AND INSTALLATION REQUIREMENTS. DETAILED INFORMATION ON OUR LOW VOLTAGE HOUSINGS AND TRIMS IS FOUND ON PAGES 36-40.



■ STANDARD NEW CONSTRUCTION: AVAILABLE IN 50 AND 75WATT MODELS, THESE UNITS ARE SUITABLE FOR DAMP LOCATIONS, THERMALLY PROTECTED AND EMPLOY SNAP-IN MAGNETIC TRANSFORMERS WHICH ENSURES CONTROLLED VOLTAGE TO THE LAMPS, MAXIMIZING THEIR LIFE. SHOULD INSULATION BE PRESENT AT LEAST A 3" SPACE FROM THE FIXTURE IS REQUIRED (PAGE 36 AND 37).



■ "IC" AIR-TIGHT HOUSING THIS STYLE IS DESIGNED TO BE USED IN ANY INSULATED CEILING CONDITION AND THE SPACE AROUND THE FIXTURE IS NOT REQUIRED. THIS UNIT MEETS THE REQUIREMENT FOR AIR-TIGHT APPLICATIONS. SEE PAGE 38. TRIMS ARE LOCATED ON PAGES 36 AND 37.



■ REMODEL STYLE HOUSING OUR REMODEL STYLE HOUSING MAKES INSTALLATION ON AN EXISTING CEILING EASY. SIMPLY CUT A HOLE, BRING POWER TO THE FIXTURE, SLIP THE HOUSING THROUGH THE HOLE, AND LOCK IN PLACE. SEE ILLUSTRATION ON PAGE 38. SHOULD INSULATION BE PRESENT AT LEAST A 3" SPACE FROM THE FIXTURE IS REQUIRED.



■ FINISHED CEILING/ REMOTE TRANSFORMER: USED WITH REMOTE ELECTRONIC TRANSFORMERS, (SEE PAGE 57) THIS STYLE REQUIRES ONLY A 4" DEPTH. THE HOUSING SLIPS THROUGH THE HOLE AND IS HELD DOWN SECURELY BY CLIPS. DIMENSIONS ARE FOUND ON PAGE 40. TRIMS FOR THIS UNIT ARE LOCATED ON PAGES 36 AND 37. SHOULD INSULATION BE PRESENT AT LEAST A 3" SPACE FROM THE FIXTURE IS REQUIRED.



■ NEW CONSTRUCTION/ ELECTRONIC TRANSFORMER ALLOWS THE SELECTION OF MINIATURE AND 4" TRIMS (PAGE 36, 37 AND 39) IN A NEW CONSTRUCTION STYLE HOUSING THAT MEASURES ONLY 5" IN DEPTH AND COMBINES A 50 WATT ELECTRONIC TRANSFORMER. STANDARD HANGER BARS ARE INCLUDED. SEE PAGE 40. SHOULD INSULATION BE PRESENT AT LEAST A 5" SPACE FROM THE FIXTURE IS REQUIRED.



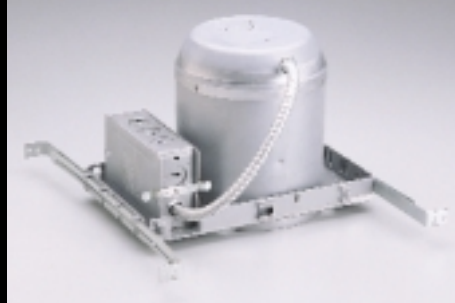
■ REMODEL HOUSING/ ELECTRONIC TRANSFORMER USABLE ON FINISHED CEILINGS BY CUTTING A HOLE IN THE CEILING AND SLIPPING THE HOUSING WITH THE ATTACHED TRANSFORMER/BOX THROUGH THE OPENING. THE BOX ALLOWS CONNECTION OF THE LINE VOLTAGE IN A SEPARATE COMPARTMENT FROM THE INCLUDED 50 WATT TRANSFORMER. A MINIMUM OF 6" IS REQUIRED FOR INSTALLATION. HOUSING, PAGE 40, TRIMS, PAGES 36, 37 AND 39. SHOULD INSULATION BE PRESENT AT LEAST A 3" SPACE FROM THE FIXTURE IS REQUIRED.

LINE VOLTAGE RECESSED LIGHTING

■ HOUSING TYPES IN LINE VOLTAGE RECESSED FIXTURES WE OFFER HOUSINGS TO MEET MOST RESIDENTIAL AND LIGHT COMMERCIAL APPLICATIONS. OUR HOUSINGS AND TRIMS HAVE BEEN BUILT TO COMMERCIAL SPECIFICATIONS. PAGES 43-49 COVER THIS SEGMENT OF OUR LINE.



■ STANDARD NEW CONSTRUCTION THERMALLY PROTECTED THIS STYLE HOUSING CAN BE USED IN INSULATED OR UNINSULATED CEILINGS. WHEN USED IN A CEILING WHERE INSULATION IS PRESENT THE INSULATION MUST BE KEPT 3" FROM ALL SIDES OF THE FIXTURE. INFORMATION ON PAGES 46, 47 AND 49.



■ "IC" INSULATED CEILING* "IC" TYPE FIXTURES CAN BE INSTALLED IN DIRECT CONTACT WITH CEILING INSULATION. THE INSULATION LAYER REMAINS INTACT AND HELPS PREVENT HEATING OR AIR CONDITIONING LOSSES. THERMALLY PROTECTED TO PREVENT OVERLAMPING. DESIGNED FOR 2" X 8" CEILING JOIST CONSTRUCTION. SEE PAGES 46, 47 AND 49.



■ REMODEL STYLE HOUSINGS EASILY INSTALLED ON EXISTING CEILINGS BY CUTTING A HOLE, PROVIDING POWER TO THE FIXTURE, AND HOLDING THE FIXTURE IN PLACE BY THE CEILING SPRING CLIPS. ON NON IC MODELS IN INSULATED CEILINGS THE INSULATION SHOULD BE KEPT 3" FROM THE FIXTURE. THERMALLY PROTECTED. SEE PAGES 46, 47 AND 49.



■ SHALLOW HOUSINGS ARE AVAILABLE FOR USE WITHIN 2"X6" JOIST CONSTRUCTION CEILINGS. SHALLOW DEPTH HOUSINGS ARE AVAILABLE IN NEW CONSTRUCTION, "IC" AND REMODELING STYLES. THESE HOUSINGS ARE AVAILABLE IN THE 6" AND 4" SIZE AND HAVE ALL THE FEATURES OF THE STANDARD 7 1/2" DEPTH HOUSINGS. SEE PAGE 47 AND 49. SHOULD INSULATION BE PRESENT AT LEAST A 3" SPACE FROM THE FIXTURE IS REQUIRED.



■ "IC" AIR-TIGHT HOUSING DESIGNED TO BE INSTALLED IN ANY INSULATED CEILING, THE SPACE SURROUNDING THE FIXTURE IS NOT REQUIRED. THIS STYLE MEETS THE REQUIREMENT FOR AIR-TIGHT APPLICATIONS. HIGHER WATTAGE LEVELS ARE ACHIEVED BY THE USE OF THE DOUBLE WALL CONSTRUCTION. HOUSING DETAILS ARE FOUND ON PAGE 47, TRIMS ON 44 AND 45.



■ SLOPED CEILING HOUSINGS DESIGNED TO ACCOMMODATE CEILING SLOPES OF 9° TO 45°, THE INTERNAL MECHANISM ALLOWS THE LAMP TO BE AIMED STRAIGHT DOWN WHILE THE TRIM FOLLOWS THE CEILING LINE. AVAILABLE IN STANDARD, "IC", AND REMODEL STYLES. SPECIAL TRIMS ARE REQUIRED. HOUSING AND TRIM INFORMATION IS FOUND ON PAGE 43.

4" LOW VOLTAGE TRIMS

■ OUR 4" LOW VOLTAGE TRIMS ARE DESIGNED TO BE USED WITH OUR HR-8400 SERIES MAGNETIC TRANSFORMER HOUSINGS (SEE PAGE 38) OR OUR ELECTRONIC TRANSFORMER HOUSINGS (SEE PAGE 40). PAGE 37 LISTS TRIM/HOUSING COMBINATIONS. ■ DOWNLIGHTS EMPLOYING MR16 LAMPS WITH THEIR VARIETY OF WATTAGES AND BEAMSPREADS MAKE THIS SERIES AN EXCELLENT CHOICE FOR GENERAL LIGHTING APPLICATIONS. ■ THE HR-8415 PINHOLE PROVIDES A NARROW SPOT OF LIGHT, THE HR-8411, HR-8412 AND HR-8424 ALLOW A WIDER BEAM. THE HR-8411 HAS A LOW SURFACE BRIGHTNESS WHILE THE HR-8412 AND HR-8424 WITH THEIR SPECULAR ANODIZED ALUMINUM REFLECTORS MAGNIFIES AND SPREADS THE LIGHT FOR MAXIMUM BRIGHTNESS. THE HR-8420 AND HR-8423 ALLOW SOME SPILL LIGHT ON THE CEILING WHILE DIRECTING THE LIGHT DOWNWARD.



MODEL	TRIMS						DESCRIPTION				BAFFLE/REFLECTOR				LAMPS		DIMENSIONS		
	CL	WT	CH	PB	GL					BK	WT	CL	GL	MR16	ADJUSTABLE	DIA.	DEPTH	EXT.	
HR-8411**	•			•						•	•			20W-75W*	15°	5"	3 1/4"		
HR-8412					•					•		•	•	20W-75W*	15°	5"	3 1/2"		
HR-8415										•				20W-75W*		4 7/8"	3 1/4"		
HR-8420														20W-75W*		4 3/4"	2"	7/8"	
HR-8423														20W 75W*		5 1/8"	2 1/2"	11/16"	
HR-8424	•													20W 75W*		5"	2"	1/2"	

FINISH KEY: BK - BLACK • WT - WHITE • CH - CHROME • PB - POLISHED BRASS • CL - CLEAR • GL - GOLD
 TRIMS ON PAGES 36 AND 37 ARE USED WITH THE HOUSINGS ON PAGE 38 AND 40. (SEE LISTING ON PAGE 37)
 *WHEN SPECIFYING 75W LAMPS REFER TO HR-8402HL HOUSING (PAGE 38).
 UL OR ETL LISTED ONLY WHEN USED IN CONJUNCTION WITH THE HOUSINGS FOUND ON PAGE 38 AND 40.
 **HR-8411-PB IS OFFERED ONLY WITH A BLACK BAFFLE

4" LOW VOLTAGE TRIMS

■ OUR DIRECTIONAL TRIMS ALLOW GREAT FLEXIBILITY UTILIZING THE WIDE VARIETY OF WATTAGES AND BEAM SPREADS OF THE MR16 LAMP ■ THESE STYLES PROVIDE EXCELLENT CONTROL IN WALL WASHING AND ACCENT LIGHTING APPLICATIONS. ■ THE SLOTTED APERTURE (HR-8413) AND THE BAFFLED EYEBALL (HR-8414) PROVIDE EXCELLENT CONTROL OF THE BEAM WHILE THE HR-8417 WAS DESIGNED TO PROVIDE A WIDER BEAM. THE HR-8425 OFFERS STANDARD DOWNLIGHTING TO 80° VERTICAL ADJUSTMENT. DIECAST CONSTRUCTION.

HR-8413



HR-8414



HR-8417



HR-8425



MODEL	APPLICABLE HOUSINGS
HR-8411	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8412	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8413	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8414	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8415	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8417	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8420	HR8401 H, HR8402H, HR8402HL, HR8403H, HR900, HR901, HR902
HR-8423	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8424	HR8401 H, HR8402H, HR8402HL, HR8403H, HR200, HR201, HR202
HR-8425	HR8401 H, HR8402H, HR8402HL, HR8403H, HR900, HR901, HR902

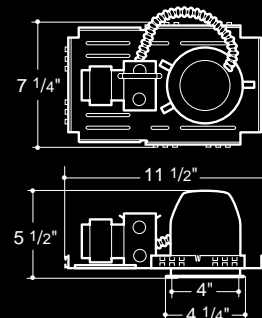
MODEL	TRIMS			DESCRIPTION	LAMPS	DIMENSIONS		
	BK	WT	PB			ADJUSTABLE	DIA.	MAX EXT.
HR-8413	•	•		METAL SLOT	MR16 20W-75W*	50°	5"	
HR-8414	•	•	•	EYEBALL	MR16 20W-75W*	50°	5"	1 1/4"
HR-8417	•	•	•	METAL GIMBAL RING	MR16 20W-75W*	30°	5"	1"
HR-8425		•	•	PERISCOPE	MR16 20W 75W*	80°	5 1/8"	2 1/2"

FINISH KEY: BK - BLACK • WT - WHITE • PB - POLISHED BRASS
 TRIMS ON PAGES 36 AND 37 ARE USED WITH THE HOUSINGS ON PAGE 38 AND 40. SEE LISTING ABOVE
 *WHEN SPECIFYING 75W LAMPS REFER TO HR-8402HL HOUSING (PAGE 38)
 UL OR ETL LISTED ONLY WHEN USED IN CONJUNCTION WITH THE HOUSINGS FOUND ON PAGE 38 AND 40.

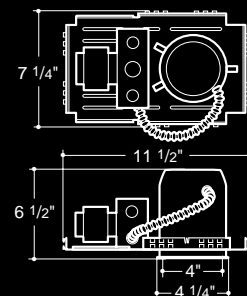
LOW VOLTAGE 4" MAGNETIC TRANSFORMER HOUSINGS

■ ALL HR-8400 SERIES HOUSINGS ARE THERMALLY PROTECTED ■ SUITABLE FOR DAMP LOCATIONS ■ SNAP-OUT MAGNETIC TRANSFORMER ENSURES CONTROLLED VOLTAGE TO LAMPS, MAXIMIZING THEIR LIFE. ■ MODEL HR-8401H IS EASILY INSTALLED IN FINISHED CEILINGS OR IN NEW CONSTRUCTION. ON MODEL HR-8401H, HR-8402H AND HR-8402HL SHOULD INSULATION BE PRESENT AT LEAST A 3" SPACE FROM THE FIXTURE IS REQUIRED. ■ THE HR-8403H MEETS REQUIREMENTS FOR AIR TIGHT APPLICATIONS. UL LISTED FOR INSULATED CEILINGS. SPACE AROUND THE FIXTURE IS NOT REQUIRED. ■ HOUSINGS ARE REMOVABLE FOR TRANSFORMER AND JUNCTION BOX ACCESS THROUGH THE CEILING OPENING. ■ JUNCTION BOXES ON HR-8402H, HR-8402HL AND HR-8403H ARE UL LISTED FOR THROUGH BRANCH CIRCUIT WIRING. ■ HR-8401H, HR-8402H AND HR8403H ARE UL LISTED FOR 20-50W, MR16 LAMPS. HR-8402HL IS UL LISTED FOR 50-75W, MR16 LAMPS.

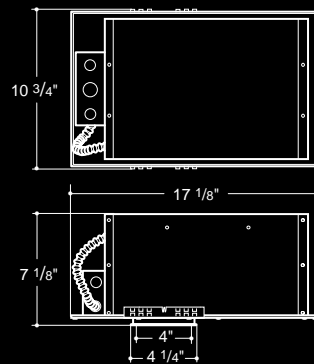
HR-8402H



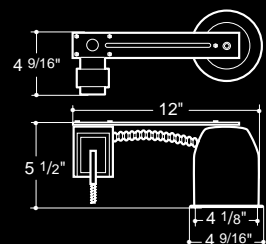
HR-8402HL



HR-8403H



HR-8401H



■ CEILING OPENING THE HR8401H HOUSING SLIPS THROUGH A 4 3/8" CEILING OPENING AND LOCKS IN PLACE WITH REMODELING CLIPS (INCLUDED) THAT ADJUST FOR VARIOUS CEILING THICKNESS.

LOW VOLTAGE MINIATURE TRIMS

■ USED WITH THE HOUSINGS FOUND ON PAGE 40 (SEE MATRIX DETAIL FOR CORRECT TRIM/HOUSING COMBINATIONS)

■ THE MAXIMUM DISTANCE BETWEEN THE FIXTURE AND THE TRANSFORMER IS DEPENDENT ON THE WATTAGE INVOLVED, SEE PAGE 40 FOR A GUIDELINE

■ THESE SMALL SCALED TRIMS USED WITH OR WITHOUT THE HOUSINGS PROVIDE HIGH LEVELS OF HALOGEN LIGHTING FOR A VARIETY OF GENERAL AND TASK LIGHTING APPLICATIONS.

■ EASILY INSTALLED ON FINISHED CEILINGS

■ SPECIAL LOW VOLTAGE DIMMERS GENERALLY ARE NOT REQUIRED WITH W.A.C. ELECTRONIC TRANSFORMERS.

SOCKET INFORMATION

ALL HOUSINGS ON PAGE 40 ARE FURNISHED WITH A SOCKET. FOR INSTALLATIONS WITHOUT A HOUSING ON HR 834, HR 836 AND HR 837 ORDER SOCKET NUMBER HT-SOCKET-BK. AS THESE STYLE TRIMS ARE NOT FURNISHED WITH A SOCKET. STYLES HR 231, HR 232 AND HR 335 ARE FURNISHED WITH A SOCKET**.



HR-231



HR-232



HR-836



HR-837



HR-834



HR-335

MODEL	FINISHES				LAMPS	HOUSING	ADJUSTABLE*	DIMENSIONS			
	BK	WT	CH	PB				MR16	DIAMETER	DEPTH	CUTOUT
HR-231	•	•	•	•	20-50W	HR-200,HR-201, HR-202	30°	4 1/2"	2 3/8"	4"	1 3/8"
HR-232	•	•		•	20-50W	HR-200,HR-201, HR-202	30°	4 1/2"	2 1/2"	4"	1 3/8"
HR-335	•	•			20-50W	NOT REQUIRED	80°	3 1/2"	2 1/2"	2 15/16"	3"
HR-834		•			20-50W	HR-800, HR-801, HR-802		3 1/2"	3 1/2"	3"	1"
HR-836*	•	•		•	20-50W	HR-800, HR-801, HR-802		3 1/2"	2 1/4"	3"	
HR-837	•	•	•	•	20-50W	HR-800, HR-801, HR-802	30°	3 3/8"	2 1/4"	3"	3/4"

FINISH KEY: BK - BLACK • WT - WHITE • CH - CHROME • PB - POLISHED BRASS

*THE HR-836 HAS A BLACK PHENOLIC BAFFLE

IN LOW VOLTAGE APPLICATIONS TRIMS USED WITHOUT THE HOUSINGS ARE GENERALLY APPROVABLE. CODES VARY - SOME REQUIRE THE TRANSFORMERS TO BE ENCLOSED (SEE ITEM ETB ON PAGE 57) THE TRIMS ON THIS PAGE HAVE SPRING CLIPS THAT WILL WORK ON MOST CEILING OR CABINET APPLICATIONS WHEN A HOUSING IS NOT BEING USED.

**WHEN INSTALLING HR 231, HR 232 AND HR 335 IN A HOUSING DISCARD THE SOCKET THAT IS FURNISHED WITH THE HOUSING. THE MAXIMUM DISTANCE BETWEEN THE FIXTURE AND THE TRANSFORMER IS DEPENDENT ON THE WATTAGES AND WIRE SIZE. SEE PAGE 40 FOR A GUIDELINE.

LOW VOLTAGE MINIATURE ELECTRONIC TRANSFORMER HOUSINGS

HR-800 HR-200 HR-900



■ USED WITH REMOTE ELECTRONIC TRANSFORMERS (SEE PAGE 57) ■ SHALLOW INSTALLATION DEPTH ■ EASILY INSTALLED ON FINISHED CEILINGS ■ CLIPS HOLD THE HOUSINGS FIRMLY IN PLACE WHILE RELAMPING. SOCKET INCLUDED

MODEL	DIMENSIONS		
	DIAMETER	DEPTH	CUTOUT
HR-800	3 1/4"	4"	3"
HR-200	4 5/16"	4"	4 3/16"
HR-900	4 13/16"	4"	4 5/8"

HR-801 HR-201 HR-901



■ BUILT IN 60W ELECTRONIC TRANSFORMER ■ ADJUSTABLE ARM ALLOWS THE FIXTURE TO BE INSTALLED ON FINISHED CEILINGS ■ THE TRANSFORMER HOUSING HAS A SECOND COMPARTMENT FOR THE LINE VOLTAGE CONNECTION. 220 VOLT TRANSFORMERS AVAILABLE. SOCKET INCLUDED

MODEL	DIMENSIONS		
	DIAMETER	DEPTH	CUTOUT
HR-801	3 1/4"	5"	3"
HR-201	4 5/16"	5"	4 3/16"
HR-901	4 13/16"	5"	4 5/8"

HR-802 HR-202 HR-902



■ NEW CONSTRUCTION HOUSING WITH 60W ELECTRONIC TRANSFORMER ■ STANDARD HANGER BARS AND SOCKETS INCLUDED.

MODEL	DIMENSIONS		
	DIAMETER	DEPTH	CUTOUT
HR-802	3 1/4"	5"	3"
HR-202	4 5/16"	5"	4 3/16"
HR-902	4 13/16"	5"	4 5/8"

■ ALL STYLES ON THIS PAGE REQUIRE A 3" SPACE FROM THE FIXTURE IF INSULATION IS PRESENT

■ VOLTAGE DROP GUIDELINES. THE TRANSFORMER SHOULD BE LOCATED AS CLOSE TO THE FIXTURE AS POSSIBLE TO MINIMIZE A VOLTAGE DROP AND LESSENER LIGHT OUTPUT. (A DROP OF 5% OR UNDER AT THE FIXTURE IS GENERALLY ACCEPTABLE - THIS CHART DETAILS THE MAXIMUM FOOTAGE TO KEEP THE DROP BELOW 5%).

WIRE SIZE	35W	50W	75W
18 GAUGE	8'	8'	6'
16 GAUGE	12'	12'	10'
14 GAUGE	16'	16'	14'
12 GAUGE	20'	20'	18'

THE CHART INDICATES THE MAXIMUM DISTANCE OF A SINGLE FIXTURE FROM TRANSFORMER AT 12 VOLTS. THE SAME DATA APPLIES WHEN MULTIPLE FIXTURES ARE USED ON A LARGER TRANSFORMER. IE. THREE 50 WATT FIXTURES ON A 150W TRANSFORMER USING 14 GAUGE WIRE - EACH FIXTURE MUST BE WITHIN 23' OF THE TRANSFORMER

MINIATURE LOW VOLTAGE COMPLETE FIXTURES

■ MINIATURE RECESSED FIXTURES ARE WIDELY USED IN CEILING APPLICATIONS WITH THE MR11 LAMP OR THE JC-20 BI-PIN. THEY ALSO ARE IDEAL FOR USE IN SHELVING, CABINETS AND DISPLAYS.

■ POWERED WITH REMOTE ELECTRONIC TRANSFORMERS THAT GENERALLY WORK WITH STANDARD INCANDESCENT DIMMERS (SEE PAGE 57).

■ SHALLOW INSTALLATION DEPTH ■ MOUNTS QUICKLY WITH BUTTERFLY CLIPS

■ EASILY RELAMPED WITHOUT LOWERING THE FIXTURE. THE GLASS ON HR-1138 AND HR-1139 TWISTS TO REMOVE. FIXTURES ON THIS PAGE INCLUDE THE SOCKET.

HR-1139



HR-1138



HR-1136



HR-1137



HR-1135



MODEL	FINISHES				LAMPS			DIMENSIONS				
	BK	WT	CH	GL	MR11	JC	HOUSING	ADJUSTABLE°	DIAMETER	DEPTH	CUTOUT	EXT.
HR-1135	•	•		•	20W-35W		INCLUDED	35°	3 3/16"	2 3/4"	2 5/8"	1/2"
HR-1136	•	•	•	•	20W-35W		INCLUDED		2 3/4"	2 3/4"	2 3/8"	
HR-1137	•	•	•	•	20W-35W		INCLUDED	35°	2 3/4"	2 3/4"	2 3/8"	1/2"
HR-1138*		•		•		20W**	INCLUDED		2 5/8"	1 1/4"	2 1/8"	3/4"
HR-1139*		•		•		20W**	INCLUDED		2 5/8"	1 1/4"	2 1/8"	3/4"

FINISH KEY: BK - BLACK • WT - WHITE • CH - CHROME • GL - GOLD
 ALL FIXTURES ON THIS PAGE ARE ETL LISTED AS THE HOUSINGS IS PART OF THE FIXTURE.
 *SUPPLIED WITH WHITE FROSTED GLASS
 **BULB INCLUDED

SLOPED CEILING HOUSINGS & TRIMS



■ SLOPED CEILING HOUSINGS AND TRIMS ARE DESIGNED TO PROVIDE STRAIGHT DOWN LIGHTING OR WALL WASHING ON CEILINGS THAT SLOPE FROM 2/12 TO 12/12 (OR 9° TO 45°) ON THE NEW CONSTRUCTION MODELS AND UP TO 27° ON THE REMODELING STYLE. THE ADJUSTABLE SOCKET ALLOWS THE BAFFLE TO PROVIDE GLARE FREE LIGHTING, THE REFLECTOR UNIT TO MULTIPLY THE LIGHTING DIRECTLY BELOW THE FIXTURE AND THE GIMBAL CONE MAKES IT POSSIBLE TO DIRECT THE LIGHT ON ARTWORK, FIREPLACES OR WALL SHELVING BY INSTALLING THE FIXTURE 2' OR 3' FROM THE WALL. OUR ADJUSTABLE SOCKET HOLDER ALLOWS PROPER POSITIONING OF A VARIETY OF LAMP SIZES. THE SLOPED CEILING HOUSINGS EMPLOY THE SAME FEATURES AS OUR REGULAR 4" AND 6" HOUSINGS. THE "IC" MODEL WITH THE AIRTIGHT GASKET KIT PROVIDES MAXIMUM ENERGY EFFICIENCY. ALL FIXTURES ARE THERMALLY PROTECTED. JUNCTION BOXES ARE LISTED FOR THROUGH BRANCH CIRCUIT WIRING AND HAVE KNOCKOUTS FOR BX AND ROMEX. CAPTIVE 27" HANGER BARS HAVE SCORE LINES FOR SHORTENING TO ACCOMMODATE 12" JOIST SPANS. HANGER BARS ARE USABLE ON ALL SIDES AND EASILY INSTALLED ON T BAR.

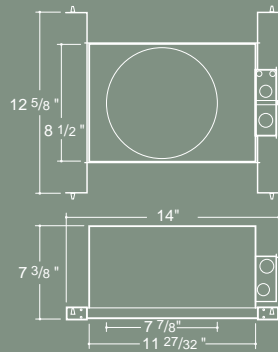
■ R-700D-R OUR SLOPED CEILING REMODEL HOUSING IS INSTALLABLE IN FINISHED CEILINGS BY CUTTING A HOLE AND BRINGING POWER TO THE HOUSING. SPRING CLIPS HOLD THE FIXTURE IN PLACE ON VARIOUS CEILINGS THICKNESSES. FITS 2" X 8" JOIST CEILINGS. WHEN INSULATION IS USED IT MUST BE KEPT 3" FROM THE FIXTURE.

■ R-701D-N OUR STANDARD SLOPED CEILING HOUSING MAY BE USED IN INSULATED OR UNINSULATED CEILINGS. WHEN INSULATION IS PRESENT IT MUST BE KEPT 3" FROM ALL SIDES OF THE FIXTURE. FITS 2" X 8" JOIST SPAN CONSTRUCTION.

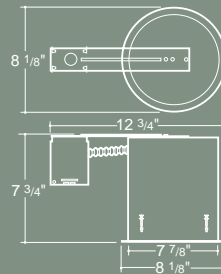
■ R-702D-N-IC THE "IC" SLOPED CEILING INSULATED CEILING UNIT MAY BE COVERED WITH INSULATION. THE AIRTIGHT GASKET (R-SGK) PROVIDES MAXIMUM ENERGY EFFICIENCY. INSTALLS IN 2" X 8" JOIST CONSTRUCTION.

SLOPED CEILING HOUSINGS & TRIMS

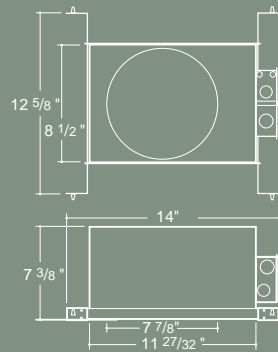
R-701D-N



R-700D-R



R-702D-N-IC



GASKET KIT

R-SGK



■ THE SLOPED CEILING HOUSING ADHESIVE VINYL GASKET KIT IS EASILY APPLIED AFTER INSTALLATION OF THE HOUSING HAS BEEN COMPLETED. THE GASKET KIT SEALS THE SPACE BETWEEN THE FIXTURE AND THE CEILING OPENING ELIMINATING AIR LEAKS AND CONSERVING ENERGY. (ORDERED SEPARATELY)

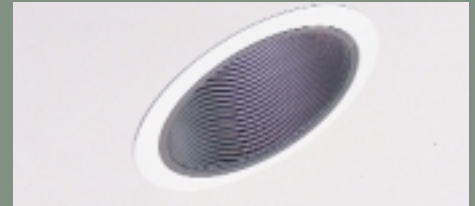
■ ALL SLOPED CEILING TRIMS ARE RELAMPABLE FROM THE FRONT WITHOUT REMOVING ANY PARTS.

R-715



HOUSINGS	MAX ANGLE	"R"	"PAR"
R-700	27°	150W	150W
R-701	45°	150W	150W
R-702	45°	90W	90W

R-720



HOUSINGS	MAX ANGLE	"R"	"PAR"
R-700	27°	150W	150W
R-701	45°	150W	150W
R-702	45°	90W	90W

R-750



HOUSINGS	MAX ANGLE	"R"	"PAR"
R-700	27°	150W	
R-701	45°	150W	
R-702	45°	90W	

MODEL	TRIMS				DESCRIPTION	DIMENSIONS
	BK	WT	WT/WT*	CL GL		
R-715			• •		SPECULAR ANODIZED ALUMINUM	9"
R-720			• •		BAFFLE	9"
R-750			• •		GIMBAL CONE	9"

FINISH KEY: BK - BLACK • WT - WHITE • WT/WT* - CL - CLEAR • GL - GOLD

THE SLOPED CEILING HOUSINGS AND TRIMS ARE SPECIFICALLY MADE TO BE USED TOGETHER. OTHER TRIMS WILL NOT WORK ON THE SLOPED HOUSINGS.

*WHITE TRIM WITH WHITE BAFFLE

LINE VOLTAGE 6" TRIMS

R-615



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		75W	75W
R-602/R-603		75W	75W
R-604		75W	75W
R-660/R661		75W	75W
R-662		75W	75W

R-616



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		150W	150W
R-602/R-603		75W	75W
R-604		85W	90W
R-660/R661		75W	75W
R-662			

R-620



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		75W	75W
R-602/R-603		75W	75W
R-604		75W	75W
R-660/R661		75W	75W
R-662		75W	75W

R-621



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		150W	150W
R-602/R-603		75W	75W
R-604		85W	90W
R-660/R661		75W	75W
R-662			

R-625



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		75W	75W
R-602/R-603		75W	75W
R-604		75W	75W
R-660/R661		75W	75W
R-662		75W	75W

R-626



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		150W	150W
R-602/R-603		75W	75W
R-604		85W	90W
R-660/R661		75W	75W
R-662			

R-640



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601	60W		
R-602/R-603	40W		
R-604	60W		
R-660/R661	60W		
R-662	40W		

R-650



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601	60W		
R-602/R-603	40W		
R-604	60W		
R-660/R661	60W		
R-662	40W		

R-651



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601	60W		
R-602/R-603	40W		
R-604	60W		
R-660/R661	60W		
R-662	40W		

MODEL	TRIMS				DESCRIPTION	DIMENSIONS	
	WT	WT/WT*	CL	GL		DIA.	EXT.
R-615	•				OPEN TRIM - PAR 30/R30	8"	
R-616	•				OPEN TRIM - PAR 38/R40	8"	
R-620	•	•			BAFFLE - PAR30/R30	7 5/8"	
R-621	•	•			BAFFLE - PAR38/R40	7 5/8"	
R-625			•	•	STEP SPECULAR ANODIZED ALUMINUM - PAR30/R30	7 1/2"	1/2"
R-626			•	•	STEP SPECULAR ANODIZED ALUMINUM - PAR38/R40	7 1/2"	1/2"
R-640	•				WALL WASH - A19	7 3/4"	1/2"
R-650	•				SHOWER LIGHT - DROP OPAL GLASS-A19	8"	1"
R-651	•				SHOWER LIGHT - ALBALITE GLASS-A19	8"	

FINISH KEY: WT - WHITE • WT/WT* • CL - CLEAR • GL - GOLD

*WHITE TRIM WITH WHITE BAFFLE

TRIMS ON PAGES 44 AND 45 ARE USED WITH THE HOUSINGS ON PAGES 46 AND 47

LINE VOLTAGE 6" TRIMS

■ MODELS R-617 AND R-618 OPEN SPLAY TRIMS ALLOW A "RECESSED" POSITIONING OF THE R30 AND R40 LAMP WHILE STILL PROVIDING THE WIDE PATTERN OF REGULAR "OPEN" TRIMS. ■ R-625 AND R-626 REFLECTOR UNITS HAVE A RETURN VISIBLE BELOW THE CEILING LINE WHICH ADDS A TAILORED LOOK.

TRIMS ON PAGE 44 AND 45 ARE USED ON THE HOUSINGS ON PAGES 46 AND 47.

R-656



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		75W	75W
R-602/R-603		75W	75W
R-604		75W	75W
R-660/R661		75W	75W
R-662		75W	75W

R-657



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		150W	150W
R-602/R-603		75W	75W
R-604		85W	90W
R-660/R661		75W	75W
R-662			

R-658



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601	150W		
R-602/R-603	60W		
R-604	100W		
R-660/R661			
R-662			

R-617



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		75W	75W
R-602/R-603		75W	75W
R-604		75W	75W
R-660/R661		75W	75W
R-662		75W	75W

R-618



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		150W	150W
R-602/R-603		75W	75W
R-604		85W	90W
R-660/R661		75W	75W
R-662			

R-635



HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601		75W	75W
R-602/R-603		75W	75W
R-604		75W	75W
R-660/R661		75W	75W
R-662		75W	75W

R-636



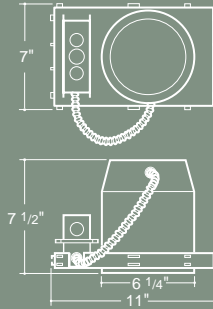
HOUSINGS	"A"	"R"/"BR"	"PAR"
R-600/R-601			150W
R-602/R-603			75W
R-604			90W
R-660/R661			75W
R-662			

MODEL	TRIMS					DESCRIPTION	DIMENSIONS		
	WT	CL	GL	BK	PB		ADJUSTABLE	DIA.	EXT.
R-617	•					SPLAY TRIM - PAR30/R30		8"	
R-618	•					SPLAY TRIM - PAR38/R40		8"	
R-635	•		•	•		EYEBALL - PAR30/R30	30°	7 3/4"	2"
R-636	•		•	•		GIMBAL RING - PAR38/R40	30°	7 3/4"	2"
R-656		•	•	•		SPECULAR ANODIZED ALUMINUM - PAR30/R30		7 5/8"	
R-657		•	•	•		SPECULAR ANODIZED ALUMINUM - PAR38/R40		7 5/8"	
R-658		•	•			DEEP SPECULAR ANODIZED ALUMINUM REFLECTOR - A19		7 5/8"	

FINISH KEY: BK - BLACK • WT - WHITE • PB - POLISHED BRASS • GL - GOLD • CL - CLEAR
 TRIMS ON PAGES 44 AND 45 ARE USED WITH THE HOUSINGS ON PAGES 46 AND 47

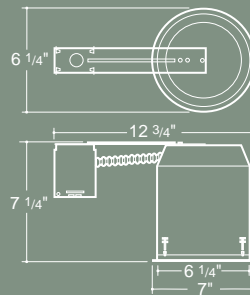
LINE VOLTAGE 6" HOUSINGS

R-600D-N



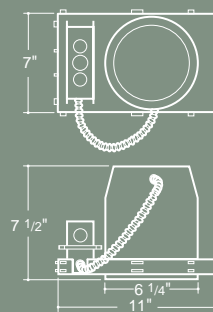
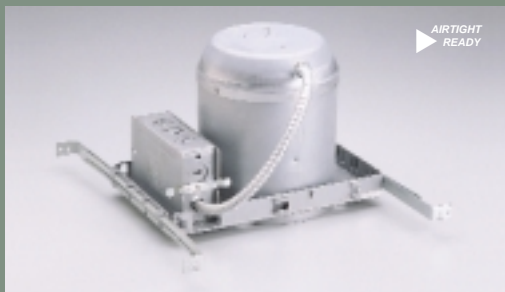
■ OUR "STANDARD" HOUSING MAY BE USED IN INSULATED OR UNINSULATED CEILINGS. WHEN INSULATION IS PRESENT IT MUST BE KEPT 3" FROM ALL SIDES OF THE FIXTURE. FITS 2"X8" JOIST CONSTRUCTION.

R-601D-R



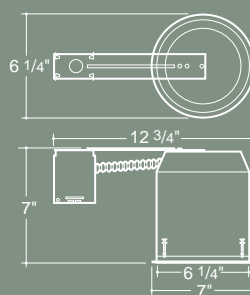
■ THE REMODEL HOUSINGS IS EASILY INSTALLED IN EXISTING CEILINGS BY CUTTING A HOLE AND BRINGING POWER TO THE HOUSING. SPRING CLIPS HOLD THE FIXTURE IN PLACE ON VARIOUS CEILING THICKNESSES.

R-602D-N-IC



■ OUR "IC" HOUSING CAN BE COVERED WITH INSULATION. THE AIRTIGHT GASKET KIT (R-6GK) CAN BE ADDED TO THE HOUSING FOR INCREASED ENERGY EFFICIENCY. DESIGNED TO FIT IN 2"X8" JOIST CONSTRUCTION.

R-603D-R-IC



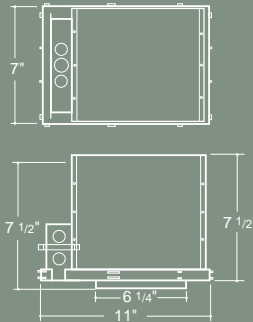
■ "IC" REMODELING HOUSING DESIGNED TO BE INSTALLED IN INSULATED CEILINGS WITHOUT LEAVING SPACE AROUND THE FIXTURE. USE OUR AIRTIGHT GASKET KIT (R-6GK) FOR ADDED ENERGY SAVINGS.

■ "IC" STYLE HOUSINGS ARE ADAPTABLE TO AIRTIGHT WITH THE ADDITION OF OUR AIRTIGHT GASKET KITS ■ ALL HOUSINGS ARE THERMALLY PROTECTED ■ JUNCTION BOXES ARE LISTED FOR THROUGH BRANCH CIRCUIT WIRING AND HAVE KNOCKOUTS FOR BX AND ROMEX

■ CAPTIVE 27" HANGER BARS HAVE SCORE LINES TO ACCOMMODATE 12" JOIST SPANS. ■ HANGER BARS ARE USABLE ON ALL FOUR SIDES AND EASILY INSTALLED ON T BARS

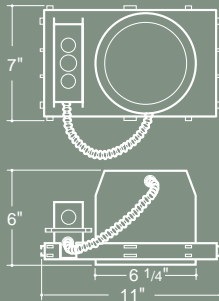
LINE VOLTAGE 6" HOUSINGS

■ OUR DOUBLE WALL HOUSING ALLOWS THE FIXTURE TO BE COVERED WITH INSULATION WHILE OFFERING MAXIMUM WATTAGE USAGE (SEE SELECTION OF TRIMS ON PAGES 44 AND 45). THE AIR-TIGHT GASKET KIT (R-6GK) MAXIMIZE ENERGY EFFICIENCY.



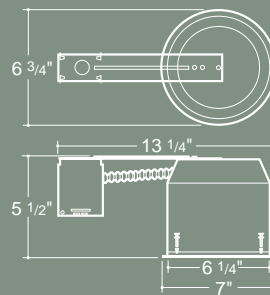
R-604D-N-IC

■ STANDARD HOUSING FOR SHALLOW NEW CONSTRUCTION CEILING INSTALLATIONS (2" X 6" JOIST CONSTRUCTION). WHERE INSULATION IS PRESENT A 3" SPACE FROM THE FIXTURE IS REQUIRED.



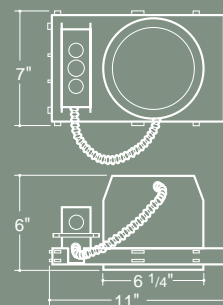
R-660S-N

■ OUR SHALLOW REMODELING HOUSING IS EASILY INSTALLED IN EXISTING 2" X 6" JOIST CEILINGS BY CUTTING THE HOLE, SLIPPING THE HOUSING THROUGH THE HOLE AND PROVIDING POWER. HOLD DOWN CLIPS ARE INCLUDED.



R-661S-R

■ THIS SHALLOW 2" X 6" JOIST CONSTRUCTION "IC" HOUSING CAN BE COVERED WITH INSULATION WITHOUT THE 3" SPACE AROUND THE FIXTURE. ORDER THE AIRTIGHT GASKET KIT (R-6GK) FOR ADDED ENERGY SAVINGS.

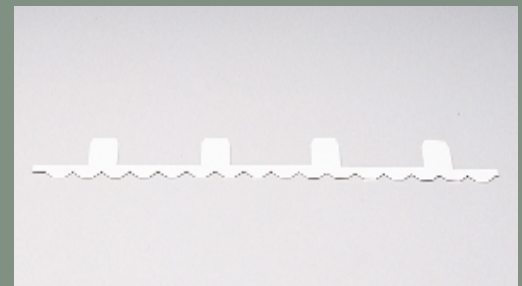


R-662S-N-IC

■ THE 6" HOUSING ADHESIVE VINYL GASKET KIT IS EASILY APPLIED AFTER INSTALLATION OF THE FIXTURE HAS BEEN COMPLETED. THE GASKET KIT SEALS THE SPACE BETWEEN THE FIXTURE AND THE CEILING OPENING ELIMINATING AIR LEAKS AND CONSERVING ENERGY. (ORDERED SEPARATELY)

GASKET KIT

R-6GK



LINE VOLTAGE 4" TRIMS

■ OUR 4" HOUSINGS AND TRIMS EMPLOY ALL THE QUALITY FEATURES OF OUR 6" LINE.

■ THE REDUCED SIZED TRIMS ARE PERFECT FOR USE IN SMALLER SPACES. THEY ARE IDEAL FOR AREAS CALLING FOR TASK OR ACCENT LIGHTING.

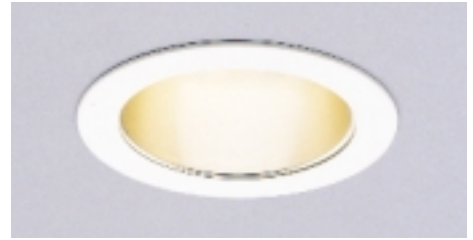
■ THE R-423 ALLOWS A SOFT GLOW ON THE CEILING WHILE DIRECTING THE LIGHT DOWNWARD. THE R-425 SPECULAR ANODIZED ALUMINUM UNIT EMPLOYS A CONTINUATION OF THE REFLECTIVE MATERIAL VISIBLE BELOW THE CEILING LINE.

R-420



HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

R-421



HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

R-425



HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

R-430



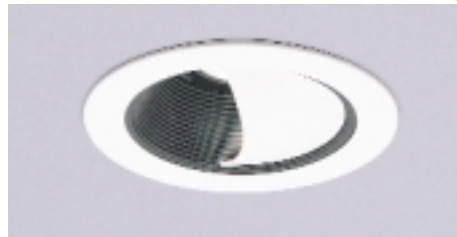
HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

R-435



HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

R-440



HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

R-423



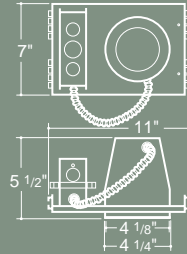
HOUSINGS	"A"	"R"	"PAR"
R-400/R-401		50W	50W
R-402		50W	50W

MODEL	FINISHES				LAMPS	DIMENSIONS		
	BK	WT	WT/WT*	CL GL PB		ADJUSTABLE*	DIAMETER	EXT.
R-420	•	•			BAFFLE - PAR20/R20		5"	
R-421	•			• •	SPEC. ANOZ. ALUM. REFLECTOR - PAR20/R20		5"	
R-423	•				ETCHED GLASS - PAR20/R20		5 1/8"	1/2"
R-425				• •	STEP SPEC. ANOZ. ALUM. REFLECTOR - PAR20/R20		5"	1/2"
R-430	•				PIN HOLE - PAR20/R20		4 7/8"	
R-435	•	•		•	EYEBALL - PAR20/R20	35°	5"	1"
R-440	•				WALL WASHER - PAR20/R20		5"	1/4"

FINISH KEY: BK - BLACK • WT - WHITE • WT/WT* - CL - CLEAR • GL - GOLD • PB - POLISHED BRASS
 *WHITE TRIM WITH WHITE BAFFLE
 TRIMS ON THIS PAGE ARE USED WITH THE HOUSINGS ON PAGE 49

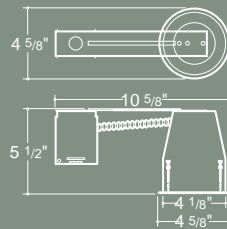
LINE VOLTAGE 4" HOUSINGS

■ STANDARD HOUSING MAY BE USED IN ANY CEILING OFFERING AT LEAST A 6" HEIGHT SPACE. WHEN INSULATION IS PRESENT A 3" SPACE MUST BE KEPT FROM THE FIXTURE,



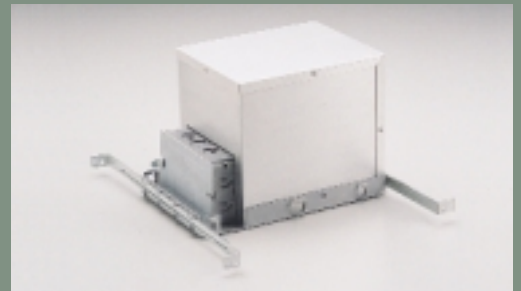
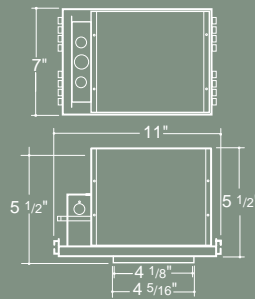
R-400S-N

■ EASILY INSTALLED ON FINISHED CEILINGS BY SLIPPING THE FIXTURE THROUGH A HOLE AND INTRODUCING POWER. SHALLOW DEPTH PERMITS INSTALLATION ON CEILINGS WITH 2" X 6" JOIST CONSTRUCTION.



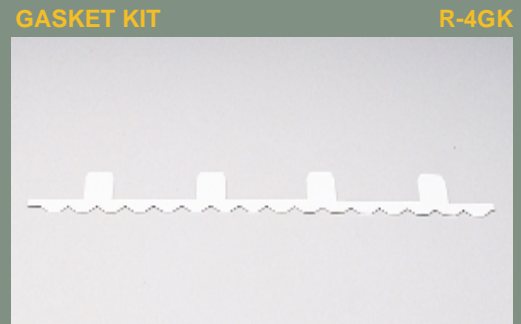
R-401S-R

■ OUR 4" INSULATED CEILING UNIT MAY BE COVERED WITH INSULATION. THE AIR-TIGHT GASKET (R-4GK) PROVIDES MAXIMUM ENERGY EFFICIENCY. INSTALLS IN 2" X 6" JOIST CEILINGS.



R-402S-N-IC

■ THE 4" HOUSING ADHESIVE VINYL GASKET KIT IS EASILY APPLIED AFTER INSTALLATION OF THE FIXTURE HAS BEEN COMPLETED. THE GASKET KIT SEALS THE SPACE BETWEEN THE FIXTURE AND THE CEILING OPENING ELIMINATING AIR LEAKS AND CONSERVING ENERGY. (ORDERED SEPARATELY)



GASKET KIT

R-4GK

■ "IC" STYLE HOUSINGS ARE ADAPTABLE TO AIRTIGHT WITH THE ADDITION OF OUR AIRTIGHT GASKET KITS ■ ALL HOUSINGS ARE THERMALLY PROTECTED ■ JUNCTION BOXES ARE LISTED FOR THROUGH BRANCH CIRCUIT WIRING AND

HAVE KNOCKOUTS FOR BX AND ROMEX

■ CAPTIVE 27" HANGER BARS HAVE SCORE LINES TO ACCOMMODATE 12" JOIST SPANS. ■ HANGER BARS ARE USABLE ON ALL FOUR SIDES AND EASILY INSTALLED ON T BARS.



LOW VOLTAGE BUTTON LIGHTS

■ DUAL FUNCTION ■ MAY BE USED AS A RECESSED FIXTURE OR SURFACE MOUNTED ■ CAN GENERALLY BE DIMMED WITH STANDARD INCANDESCENT DIMMERS. 36" LEAD WIRES. MAY BE USED WITH 60, 75, 100, 150 WATT ELECTRONIC TRANSFORMERS IN MULTIPLES (SEE PAGE 57). ■ BUTTON LIGHTS PROVIDE AN EXCELLENT SOURCE WHEREVER A SMALL POWERFUL LIGHT IS NEEDED. ■ THE JC-20W LAMP PROVIDES 350 INITIAL LUMENS. (ABOUT 85% OF A 50W-R20). WHEN USED WITH A DIMMER THE CONTROLLED LIGHT IS PERFECT FOR A WIDE VARIETY OF RESIDENTIAL AND COMMERCIAL APPLICATIONS.

HR-88 INSTALLED RECESSED



HR-89 INSTALLED RECESSED



HR-88 INSTALLED SURFACE MOUNTED



HR-89 INSTALLED SURFACE MOUNTED



LENS-45-FR



■ OPTIONAL ACCESSORY: FLAT FROSTED LENS (SHOWN WITH HR-88-PB)

MODEL	FINISHES				LAMPS	DIMENSIONS			
	BK	WT	PB	CH		DIAMETER	DEPTH*	CUTOUT	EXTENDS**
HR-88	•	•	•	•	JC - 20 BI-PIN 20W INCLUDED	2 5/8"	7/8"	2 3/8"	1"
HR-89	•	•	•	•	JC - 20 BI-PIN 20W INCLUDED	2 5/8"	7/8"	2 3/8"	1"

FINISH KEY: BK - BLACK • WT - WHITE • PB - POLISHED BRASS • CH - CHROME
 *WHEN USED AS A RECESSED FIXTURE
 **WHEN USED AS A SURFACE MOUNTED FIXTURE

LOW VOLTAGE LIGHT BARS

- DESIGNED FOR UNDER COUNTER, CABINETS, ETC.
- BUILT-IN TRANSFORMER. HI-LOW DIMMER SWITCH.
- MODELS AVAILABLE FOR PERMANENT INSTALLATIONS AND AS A PORTABLE.
- 220V AVAILABLE ON HARD WIRED MODELS. CONSULT FACTORY FOR INFORMATION.



BA-2

BA-2 P



BA-3

BA-3 P

- THE BA-2 WITH TWO-20W-JC LAMPS PROVIDES APPROXIMATELY 700 LUMENS.
- THE BA-3 PROVIDES ABOUT 1,000 LUMENS.
- THE SHALLOW DEPTH AND NARROW WIDTH ARE IDEAL FOR APPLICATIONS WHERE HIGHER LEVELS OF LIGHT IN A SMALL SOURCE ARE DESIRED.



MODEL	FINISHES		LAMPS	VOLTAGE	DIMENSIONS		
	WT	GL			LENGTH	WIDTH	DEPTH
BA-2	•	•	(2) 20W INCLUDED	120-12V	14 1/4"	1 3/4"	1"
BA-2A	•	•	(2) 20W INCLUDED	220-12V	14 1/4"	1 3/4"	1"
BA-2P*	•	•	(2) 20W INCLUDED	120-12V	14 1/4"	1 3/4"	1"
BA-3	•	•	(3) 20W INCLUDED	120-12V	22"	1 3/4"	1"
BA-3A	•	•	(3) 20W INCLUDED	220-12V	22"	1 3/4"	1"
BA-3P*	•	•	(3) 20W INCLUDED	120-12V	22"	1 3/4"	1"

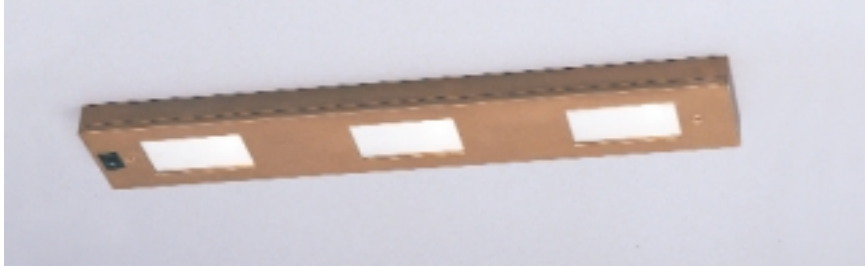
FINISH KEY: WT - WHITE • GL - GOLD PLATED
 INSTALLATION MATERIALS AND INSTRUCTIONS INCLUDED
 CLEAR LENSES (LENS-BA-CL) AVAILABLE AS AN ACCESSORY
 *9' CORD AND PLUG INSTALLED FOR USE AS A PORTABLE UNIT

LINE VOLTAGE LIGHT BARS

BA-LIV-2 BA-LIV-2P



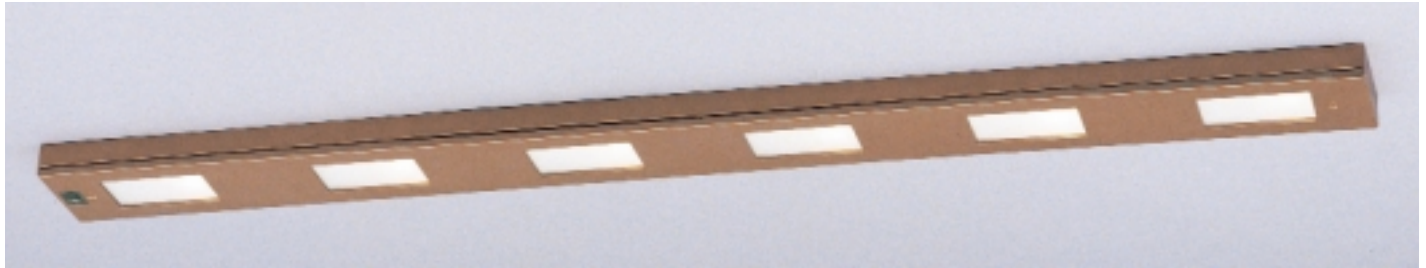
BA-LIV-3 BA-LIV-3P



BA-LIV-4 BA-LIV-4P



BA-LIV-6 BA-LIV-6P



■ DESIGNED AS AN ALTERNATIVE TO FLUORESCENT UNDER COUNTER UNITS. THE HALOGEN LAMPS PROVIDE A PURE WHITE NATURAL SOURCE. THE FROSTED LENS DIFFUSES THE LIGHT PERFECTLY. ■ ALL SIZES OF OUR LINE VOLTAGE MODELS HAVE BUILT IN HIGH LOW DIMMER SWITCHES. ■ IN/OUT ACCESS AT THE BACK WALL IS PROVIDED FOR EASY INSTALLATION OF MULTIPLE FIXTURES. ■ UNITS HAVE KNOCK OUTS AT THE ENDS FOR CONTINUOUS RUNS. PROPERLY SPREAD LAMPS PROVIDE EVEN LIGHT DISTRIBUTION WHEN FIXTURES ARE JOINED.

MODEL	FINISHES		LAMPS	VOLTAGE	DIMENSIONS		
	WT	BZ			LENGTH	WIDTH	DEPTH
BA-LIV-2	•	•	(2) 25W INCLUDED	120	12"	3 1/8"	1"
BA-LIV-2P*	•	•	(2) 25W INCLUDED	120	12"	3 1/8"	1"
BA-LIV-3	•	•	(3) 25W INCLUDED	120	18"	3 1/8"	1"
BA-LIV-3P*	•	•	(3) 25W INCLUDED	120	18"	3 1/8"	1"
BA-LIV-4	•	•	(4) 25W INCLUDED	120	24"	3 1/8"	1"
BA-LIV-4P*	•	•	(4) 25W INCLUDED	120	24"	3 1/8"	1"
BA-LIV-6	•	•	(6) 25W INCLUDED	120	36"	3 1/8"	1"
BA-LIV-6P*	•	•	(6) 25W INCLUDED	120	36"	3 1/8"	1"

FINISH KEY: WT - WHITE • BZ - METALLIC BRONZE
 INSTALLATION MATERIALS AND INSTRUCTIONS INCLUDED
 CLEAR LENSES (LENS-BAL-CL) AVAILABLE AS AN ACCESSORY
 *9' CORD AND PLUG INSTALLED FOR USE AS A PORTABLE UNIT

LOW VOLTAGE SURFACE MOUNTS

LP-900 LP-900P*



EXTENSION RODS

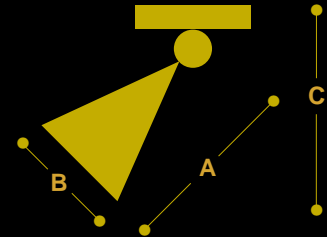


■ LP MODELS HAVE BUILT-IN MAGNETIC TRANSFORMERS WHICH REQUIRE LOW VOLTAGE MAGNETIC DIMMERS. MAY BE USED FOR CEILING WALL AND FLOOR MOUNTING. ■ 220V AVAILABLE ON PAN AND LP SERIES. CONSULT FACTORY FOR INFORMATION.

LP-808 LP-808P*



A LENGTH B DIAMETER C MAX EXTENSION



LP-007 LP-007P*



PAN-802



PAN-809



MODEL	FINISHES			LAMPS	DESCRIPTION	DIMENSIONS		
	BK	WT	GL			A	B	C
LP-007	•	•	•	MR16 20W-50W		4 1/8"	2 1/4"	6 3/8"
LP-007P*	•	•	•	20W-50W		4 1/8"	2 1/4"	6 3/8"
LP-808	•	•		20W-50W		3 3/8"	2 3/4"	5 3/4"
LP-808P*	•	•		20W-50W		3 3/8"	2 3/4"	5 3/4"
LP-900	•	•		20W-50W		3 1/4"	2 1/2"	6 1/4"
LP-900P*	•	•		20W-50W		3 1/4"	2 1/2"	6 1/4"
PAN-802	•	•		20W-50W	BUILT-IN ELECTRONIC TRANSFORMERS 11" DIAMETER, 8" HEIGHT			
PAN-809	•	•		20W-50W	BUILT-IN ELECTRONIC TRANSFORMERS 11" DIAMETER, 8" HEIGHT			
X18**	•	•			18" EXTENSION • SPECIFY X18, FIXTURE STYLE & FINISH (I.E.: X18-LP-007-WT)			
X24**	•	•			24" EXTENSION • SPECIFY X24, FIXTURE STYLE & FINISH (I.E.: X24-LP-007-WT)			
X36**	•	•			36" EXTENSION • SPECIFY X36, FIXTURE STYLE & FINISH (I.E.: X36-LP-007-WT)			
X48**	•	•			48" EXTENSION • SPECIFY X48, FIXTURE STYLE & FINISH (I.E.: X48-LP-007-WT)			

FINISH KEY: BK - BLACK • WT - WHITE • GL - GOLD
 *P INDICATES THE ITEM HAS A 9' CORD, PLUG AND SWITCH ATTACHED
 **AVAILABLE ONLY AS A COMPLETE UNIT FROM THE FACTORY

LOW VOLTAGE SURFACE MOUNTS

MI-1126



■ THE MI STYLES ARE MOUNTED ON MINI-MONO-POINTS THAT ARE 2 1/2" IN DIAMETER AND 3/4" IN DEPTH. THESE UNITS REQUIRE THE USE OF A REMOTE TRANSFORMER. (SEE PAGE 57 FOR A SELECTION OF ELECTRONIC AND MAGNETIC TRANSFORMERS. THE ELECTRONIC TRANSFORMERS ARE GENERALLY DIMMABLE WITH AN INCANDESCENT DIMMER WHILE THE MAGNETICS REQUIRE A DIMMER DESIGNED FOR USE WITH MAGNETIC TRANSFORMERS ■ THE ME STYLES COVER A 4" OUTLET BOX AND HAVE A BUILT IN 50 WATT ELECTRONIC TRANSFORMER. THEY ARE DESIGNED FOR WALL OR CEILING APPLICATIONS.

MI-1109



MI-1102



ME-007



ME-808



ME-900



MODEL	FINISHES			LAMPS		DESCRIPTION	TRANSFORMER	DIMENSIONS		
	BK	WT	GL	MR16	MR11			A	B	C
ME-007	•	•	•	20W-50W			INCLUDED	4 3/16"	2 1/4"	7"
ME-808	•	•		20W-50W			INCLUDED	3 1/4"	2 3/4"	6 1/4"
ME-900	•	•		20W-50W			INCLUDED	3 1/4"	2 1/2"	6 1/4"
MI-1102	•	•	•		20W-35W		REMOTE	2 1/4"	1 9/16"	4 3/16"
MI-1109	•	•	•		20W-35W		REMOTE	2 1/4"	1 9/16"	4 3/16"
MI-1126	•	•			20W-35W		REMOTE	3 3/4"	1 11/16"	4 3/4"
X18*	•	•				18" EXTENSION • SPECIFY X18, FIXTURE STYLE & FINISH (I.E.: X-18-MI-1126-WT)				
X24*	•	•				24" EXTENSION • SPECIFY X24, FIXTURE STYLE & FINISH (I.E.: X-24-MI-1126-WT)				
X36*	•	•				36" EXTENSION • SPECIFY X36, FIXTURE STYLE & FINISH (I.E.: X-36-MI-1126-WT)				
X48*	•	•				48" EXTENSION • SPECIFY X48, FIXTURE STYLE & FINISH (I.E.: X-48-MI-1126-WT)				

FINISH KEY: BK - BLACK • WT - WHITE • GL - GOLD

DISPLAY LIGHTS

DL-701



DL-007



DL-188



DL-150



■ IDEAL FOR LIGHTING TEMPORARY EXHIBITS, BOOTHS, CRAFT DISPLAYS, ETC. ■ ALL MODELS PERISCOPE FROM 22" TO 32". ■ EQUIPPED WITH OUR STANDARD CLAMP* 10' CORD AND PLUG. ■ LOW VOLTAGE STYLES INCLUDE A 60 WATT PLUG IN ELECTRONIC TRANSFORMER.

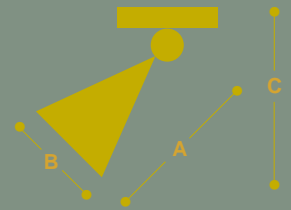
DLC-P



DLC-4



A LENGTH B DIAMETER C EXTENSION



MODEL	FINISHES		LAMPS	DIMENSIONS		
	BK	WT		A	B	C
DL-007	•	•	MR16 - 20W-50W	4 1/4"	2 1/4"	22"-32"
DL-150	•	•	J-200-S	3 1/2"	5"	22"-32"
DL-188	•	•	ALL A,R,PAR (MAX 150W)	4 3/4"	2"	22"-32"
DL-701	•	•	PAR20, R20, 60A	6"	3 1/2"	22"-32"
DLC-4**	•	•				
DLC-P***	•	•				

FINISH KEY: BK - BLACK • WT - WHITE

*THE STANDARD CLAMP WORKS ON FLAT SURFACES 1/2" TO 2 1/2" WIDE

**THE DLC-4 CLAMP IS ADJUSTABLE TO ACCOMMODATE FLAT SURFACES FROM 1/2" TO 4" WIDE

***THE DLC-P PIPE CLAMP WORKS ON 2 1/2" PIPE

AN IN-LINE SWITCH ACCESSORY IS AVAILABLE (MODEL SW-3) EASILY INSTALLED IN THE FIELD. AVAILABLE IN DARK BROWN ONLY

TRANSFORMERS AND DIMMERS

■ OUR ELECTRONIC TRANSFORMERS ARE USED FOR ANY 12V REMOTE REQUIREMENT. ■ ELECTRONIC TRANSFORMERS WILL GENERALLY WORK WITH STANDARD INCANDESCENT DIMMERS. ■ THE MAGNETIC TRANSFORMERS ARE DUAL VOLTAGE (12V-24V) AND ARE THERMALLY PROTECTED AND HAVE RESETTABLE CIRCUIT BREAKERS. ■ THEY WILL REQUIRE LOW VOLTAGE DIMMERS. ■ 24 VOLT SYSTEMS ARE USED FOR LONG RUNS SUCH AS COVES AROUND THE PERIMETER OF A ROOM. THE SST-60E AND SST-150E ALLOW DIRECT ACCESS FROM A LINEAR TRACK OR CAN BE USED SEPARATED FROM THE TRACK. THE ETB HOUSES ANY EN-12 TRANSFORMER AND ALLOWS A LINE VOLTAGE CONNECTION IN A SEPARATE COMPARTMENT.

EN-12P EN-12PL



SRT-250M SRT-500M



EN-12PE EN-12PX



SST-60 E SST-150 E



DM-2 DM-3



ETB



EN-33PS



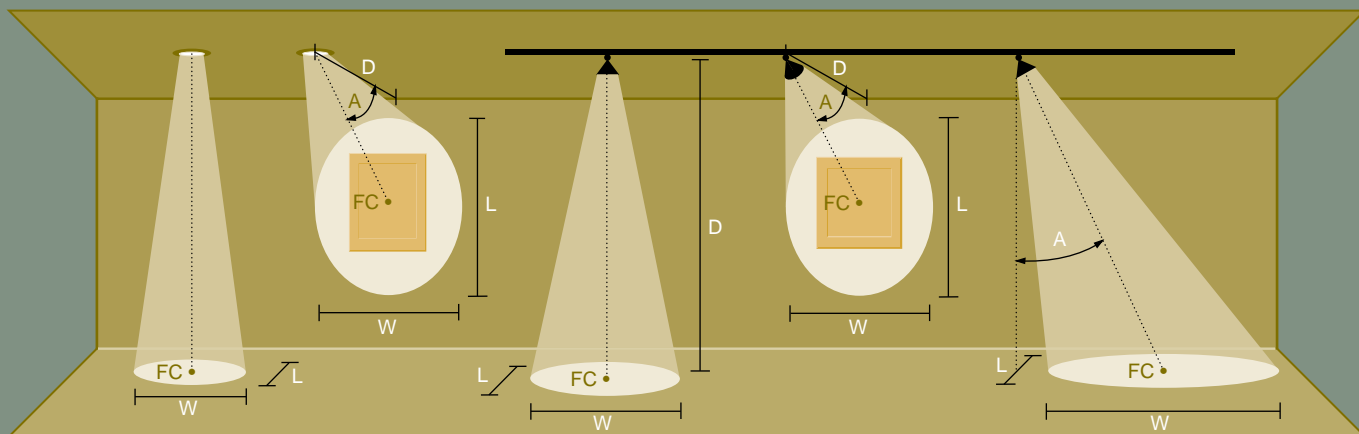
MTB-01



MODEL	FINISHES			DESCRIPTIONS	DIMENSIONS		
	BK	WT	PB		WIDTH	LENGTH	DEPTH
EN-12P				INPUT 120V • OUTPUT 60W	1 3/8"	3 3/16"	13/16"
EN-12PL				INPUT 120V • OUTPUT 75W	1 3/8"	3 3/16"	13/16"
EN-12PE				INPUT 120V • OUTPUT 100W	1 3/4"	5 1/8"	1 3/8"
EN-12PX				INPUT 120V • OUTPUT 150W	1 3/4"	5 1/8"	1 3/8"
EN-33PS**	•	•		INPUT 120V • OUTPUT 60W	2 1/4"	2 7/8"	1 5/8"
DM-2*	•	•	•	TURN DIMMER 300W 1/4" SHAFT	13/16"	2"	1"
DM-3*	•	•	•	TURN DIMMER 300W 3/4" SHAFT	13/16"	2"	1"
ETB	•			JUNCTION BOX FOR EN-12 SERIES	3 3/8"	6 1/4"	2 1/4"
MTB-01	•			MULTIPLE TERMINAL BLOCK	1 3/4"	3 1/4"	7/8"
SRT-250M				INPUT 120V, 60HZ • OUTPUT 250W	3 15/16"	4"	13"
SRT-500M				INPUT 120V, 60HZ • OUTPUT 500W	4 11/16"	4 5/8"	14"
SST-60E	•	•		INPUT 120V • OUTPUT 60W	1 5/8"	5"	1"
SST-150E	•	•		INPUT 120V • OUTPUT 150W	2"	7"	1 1/2"

FINISH KEY: BK - BLACK • WT - WHITE • PB - POLISHED BRASS *THE FINISHES REFER TO THE TURN KNOB **7' CORD AND PLUG INCLUDED. 220 VOLT TRANSFORMERS ARE AVAILABLE: EN-220P (60W), EN-220PE (100W), AND EN-220PX (150W). THE MAXIMUM DISTANCE BETWEEN THE FIXTURE AND THE TRANSFORMER IS DEPENDENT ON THE WATTAGES INVOLVED - SEE PAGE 40 FOR A GUIDELINE. SST-60E AND SST-150E ARE EQUIPPED WITH AN ON/OFF SWITCH

HOW TO: LIGHTING TECHNIQUES



KEY	IN FEET
A	AIMING ANGLE
D	DISTANCE TO FIXTURE FROM WALL OR FLOOR
FC	THE INITIAL FOOTCANDLE LEVEL AT THE CENTER OF THE BEAM

KEY	IN FEET
L	LISTING IS AT THE POINT THAT THE CANDLE-POWER DROPS TO 50% OF MAXIMUM
W	LISTING IS AT THE POINT THAT THE CANDLE-POWER DROPS TO 50% OF MAXIMUM

LAMP PERFORMANCE

MR11FTD		MR11FTD							
20W, BEAMSPREAD 30°		20W, BEAMSPREAD 30°							
MC: 700		MC: 700							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	2	210	1.0	1.0	45°	2	55	2.5	2.5
0°	3	95	1.5	1.5	45°	3	35	3.5	2.5
0°	4	55	2.0	2.0	45°	4	20	5.0	2.5
0°	5	35	2.5	2.5	45°	5	15	7.5	3.0

MR16EXZ		MR16EXZ							
50W, BEAMSPREAD 24°		50W, BEAMSPREAD 24°							
MC: 3000		MC: 3000							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	6	85	2.5	3.0	45°	3	120	2.5	2.0
0°	8	45	3.0	4.0	45°	5	40	4.0	3.5
0°	10	30	4.0	5.0	45°	7	20	5.5	5.0
0°	12	20	4.5	6.0	45°	9	15	7.0	6.0

MR11FTH		MR11FTH							
35W, BEAMSPREAD 30°		35W, BEAMSPREAD 30°							
MC: 1500		MC: 1500							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	2	395	1.1	1.1	45°	2	100	2.5	2.5
0°	3	175	1.5	1.5	45°	3	60	3.5	2.5
0°	4	100	2.0	2.0	45°	4	40	5.0	2.5
0°	5	65	2.5	2.5	45°	5	5	7.0	3.0

MR16EXN		MR16EXN							
50W, BEAMSPREAD 40°		50W, BEAMSPREAD 40°							
MC: 1500		MC: 1500							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	3	165	2.0	2.0	45°	2	135	2.0	2.0
0°	5	60	3.5	3.5	45°	3	60	4.5	3.0
0°	7	30	4.5	5.0	45°	4	35	6.0	4.0
0°	9	20	6.0	6.5	45°	5	20	7.5	5.0


MR16BAB		MR16BAB							
20W, BEAMSPREAD 36°		20W, BEAMSPREAD 36°							
MC: 460		MC: 460							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	2	115	1.5	1.5	45°	2	40	3.0	2.0
0°	3	50	2.0	2.0	45°	3	20	4.5	3.0
0°	4	30	2.5	2.5	45°	4	10	6.0	4.0
0°	5	20	3.0	3.0	45°	5	5	7.0	4.5

MR16EYF		MR16EYF							
75W, BEAMSPREAD 14°		75W, BEAMSPREAD 14°							
MC: 11,500		MC: 11,500							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	8	180	2.0	2.0	45°	5	165	2.5	2.0
0°	12	80	3.0	3.0	45°	7	85	3.5	2.5
0°	16	45	4.0	4.0	45°	9	50	4.5	3.5
0°	20	30	5.0	5.5	45°	11	35	5.5	4.0

MR16EXT		MR16EXT							
50W, BEAMSPREAD 13°		50W, BEAMSPREAD 13°							
MC: 9150		MC: 9150							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	7	185	1.5	1.5	45°	4	200	1.5	1.5
0°	10	90	2.0	2.0	45°	6	90	2.0	2.0
0°	13	50	2.5	3.0	45°	8	50	3.0	2.5
0°	16	35	3.0	3.5	45°	10	30	4.0	3.0

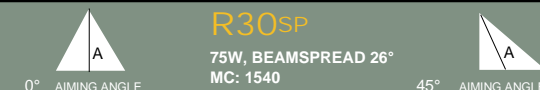
PAR36WFL		PAR36WFL							
50W, BEAMSPREAD 32°		50W, BEAMSPREAD 32°							
MC: 1300		MC: 1300							
0°	AIMING ANGLE	45°	AIMING ANGLE						
A°	D	FC	L	W	A°	D	FC	L	W
0°	3	140	1.5	2.0	45°	2	110	2.0	2.0
0°	5	50	2.5	3.0	45°	3	50	3.0	3.0
0°	7	25	3.5	4.5	45°	4	30	4.5	4.0
0°	9	15	4.5	5.5	45°	5	20	5.5	4.5

PAR36VNSP
75W, BEAMSPREAD 5.5°
MC: 31500



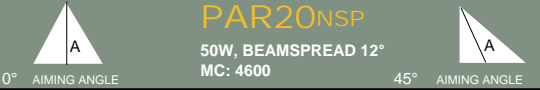
A°	D	FC	L	W	A°	D	FC	L	W
0°	10	315	.5	1.0	45°	6	300	1.0	1.0
0°	15	140	1.0	2.0	45°	9	135	1.5	1.5
0°	20	80	1.5	2.5	45°	12	75	1.5	2.0
0°	25	50	1.5	3.0	45°	15	50	2.0	2.5

R30SP
75W, BEAMSPREAD 26°
MC: 1540




A°	D	FC	L	W	A°	D	FC	L	W
0°	3	170	1.5	1.5	45°	2	135	2.0	1.5
0°	5	60	2.5	2.5	45°	3	60	3.0	2.0
0°	7	30	3.0	3.0	45°	4	35	4.0	2.5
0°	9	20	4.0	4.0	45°	5	20	5.0	3.5

PAR20NSP
50W, BEAMSPREAD 12°
MC: 4600




A°	D	FC	L	W	A°	D	FC	L	W
0°	6	130	1.5	1.5	45°	3	180	1.5	1.0
0°	8	70	1.5	1.5	45°	5	65	2.0	1.5
0°	10	45	2.0	2.0	45°	7	35	3.0	2.0
0°	12	30	2.5	2.5	45°	9	20	4.0	2.5

PAR38SP
75W, BEAMSPREAD 12°
MC: 5200




A°	D	FC	L	W	A°	D	FC	L	W
0°	6	145	1.5	1.5	45°	3	205	1.5	1.0
0°	8	80	1.5	1.5	45°	5	75	2.0	1.5
0°	10	50	2.0	2.0	45°	7	40	3.0	2.0
0°	12	35	2.5	2.5	45°	9	25	4.0	2.5

PAR20NFL
50W, BEAMSPREAD 32°
MC: 1250



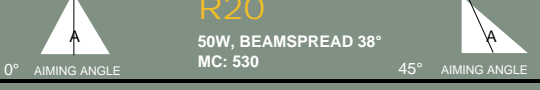
A°	D	FC	L	W	A°	D	FC	L	W
0°	3	140	1.5	1.5	45°	2	110	2.5	1.5
0°	5	50	3.0	3.0	45°	3	50	3.5	2.5
0°	7	25	4.0	4.0	45°	4	30	5.0	3.0
0°	9	15	5.0	5.0	45°	5	20	6.0	4.0

PAR38FL
150W, BEAMSPREAD 30°
MC: 4000



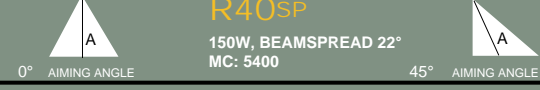
A°	D	FC	L	W	A°	D	FC	L	W
0°	6	110	4.0	4.0	45°	4	155	4.5	3.0
0°	8	60	5.5	5.5	45°	6	70	7.0	4.5
0°	10	40	7.0	7.0	45°	8	40	9.0	6.0
0°	12	30	8.5	8.5	45°	10	25	11.5	7.5

R20
50W, BEAMSPREAD 38°
MC: 530




A°	D	FC	L	W	A°	D	FC	L	W
0°	2	130	1.5	1.5	45°	2	45	3.0	2.0
0°	3	60	2.0	2.0	45°	3	20	4.5	3.0
0°	4	35	3.0	3.0	45°	4	10	6.5	4.0
0°	5	20	3.5	3.5	45°	5	5	8.0	5.0

R40SP
150W, BEAMSPREAD 22°
MC: 5400




A°	D	FC	L	W	A°	D	FC	L	W
0°	3	210	2.5	1.5	45°	6	150	2.5	2.5
0°	5	75	4.0	2.5	45°	8	85	3.0	3.0
0°	7	40	5.5	4.0	45°	10	55	4.0	4.0
0°	9	25	7.5	5.0	45°	12	35	4.5	4.5

PAR30NSP
75W, BEAMSPREAD 12°
MC: 10,500



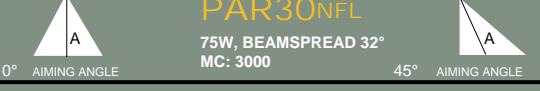
A°	D	FC	L	W	A°	D	FC	L	W
0°	8	165	1.5	1.5	45°	5	150	2.0	1.5
0°	12	75	2.5	2.5	45°	7	75	3.0	2.0
0°	16	40	3.5	3.5	45°	9	45	4.0	2.5
0°	20	25	4.0	4.0	45°	11	30	4.5	3.5

J150w
78MM, BEAMSPREAD 70°*
MC: 740




A°	D	FC	L	W	A°	D	FC	L	W
0°	4	45	5.0	5.5	45°	2	65	8.5	4.0
0°	6	20	7.5	8.5	45°	3	30	13.0	6.0
0°	8	12	10.0	11.0	45°	4	15	17.0	8.0
0°	10	5	12.5	14.0	45°	5	10	21.0	10.0

PAR30NFL
75W, BEAMSPREAD 32°
MC: 3000



A°	D	FC	L	W	A°	D	FC	L	W
0°	6	85	3.5	3.5	45°	3	120	3.5	2.5
0°	8	45	4.5	4.5	45°	5	40	6.0	4.0
0°	10	30	5.5	5.5	45°	7	20	8.5	5.5
0°	12	20	7.0	7.0	45°	9	15	11.0	7.5

J300w
118MM, BEAMSPREAD 42°**
MC: 1325



A°	D	FC	L	W	A°	D	FC	L	W
0°	3	145	2.0	2.5	45°	2	115	3.0	2.5
0°	5	55	3.0	4.5	45°	3	50	4.0	4.0
0°	7	25	4.5	6.5	45°	4	30	5.5	5.0
0°	9	15	5.5	8.0	45°	5	20	7.0	6.5

* WITHOUT BARN DOORS

BA-2	52	HL	18	HTK-718	14	JTK-704	14
BA-2A,2P	52	HLE	17	HTK-720	13	JTK-705	14
BA-3	52	HLOOP	19	HTK-725	15	JTK-706	14
BA-3A,3P	52	HMP	17	HTK-730	13	JTK-718	14
BA-LIV-2,2P	53	HREC	19	HTK-738	13	JTK-720	13
BA-LIV-3,3P	53	HR-88	51	HTK-743	15	JTK-725	15
BA-LIV-4,4P	53	HR-89	51	HTK-744	15	JTK-730	13
BA-LIV-6,6P	53	HR-200	40	HTK-745	15	JTK-738	13
BP-15-12V	29	HR-201	40	HTK-753	12	JTK-743	15
BP-15-24V	29	HR-202	40	HTK-754	12	JTK-744	15
BP-20-12V	29	HR-231	39	HTK-755	12	JTK-745	15
BP-20-24V	29	HR-232	39	HT-SOCKET-BK	39	JTK-753	12
CP	19	HR-335	39	HX	18	JTK-754	12
DL-007	56	HR-800	40	JBXLE	18	JTK-755	12
DL-150	56	HR-801	40	J-CLIP	19	JX	18
DL-188	56	HR-802	40	JFA	19	LBXLE	18
DL-701	56	HR-834	39	JFC	17	LCORDSET	18
DLC-P	56	HR-836	39	JFLX	18	LENS-BAL-CL	53
DLC-4	56	HR-837	39	JHT-007	7	LENS-11	20
DM-2	57	HR-900	40	JHT-160	7	LENS-16	20
DM-3	57	HR-901	40	JHT-170	7	LENS-16-CLIP20	
EN-12P	57	HR-902	40	JHT-180	9	LENS-11-BEL	20
EN-12PE	57	HR-1135	41	JHT-204	7	LENS-16-BEL	20
EN-12PL	57	HR-1136	41	JHT-801	8	LENS-11-HCL	20
EN-12PX	57	HR-1137	41	JHT-802	9	LENS-16-HCL	20
EN-33PS	57	HR-1138	41	JHT-808	8	LENS-11-SPR	20
ETB	57	HR-1139	41	JHT-809	8	LENS-16-SPR	20
H18,36,48	21	HR-8401H	38	JHT-816	6	LENS-11-UVF	20
HBXLE	18	HR-8402H	38	JHT-826	6	LENS-16-UVF	20
HCORD	18	HR-8402HL	38	JHT-846	6	LENS-45-FR	51
HFA	19	HR-8403H	38	JHT-900	8	LFA	19
HFC	17	HR-8411	36	JHT-901	8	LFC	17
HFLX	18	HR-8412	36	JHT-936	6	LFLX	18
HHT-007	7	HR-8413	37	JHT-1102	9	LHT-007	7
HHT-160	7	HR-8414	37	JHT-1109	9	LHT-160	7
HHT-170	7	HR-8415	36	JHT-1126	6	LHT-170	7
HHT-180	9	HR-8417	37	JI	17	LHT-180	9
HHT-204	7	HR-8420	36	JI-DEC	17	LHT-204	7
HHT-801	8	HR-8423	36	JI-PWR	17	LHT-801	8
HHT-802	9	HR-8424	36	JL	18	LHT-802	9
HHT-808	8	HR-8425	37	JLE	17	LHT-808	8
HHT-809	8	HRH	19	JLOOP	19	LHT-809	8
HHT-816	6	HT	18	JMP	17	LHT-816	6
HHT-826	6	HT2,4,6,8	16	JREC	19	LHT-826	6
HHT-846	6	HTK-123	15	JRH	19	LHT-846	6
HHT-900	8	HTK-150	12	JT	18	LHT-900	8
HHT-901	8	HTK-178	14	JT2,4,6,8	16	LHT-901	8
HHT-936	6	HTK-188	15	JTK-123	15	LHT-936	6
HHT-1102	9	HTK-701	14	JTK-150	12	LHT-1102	9
HHT-1109	9	HTK-702	14	JTK-178	14	LHT-1109	9
HHT-1126	6	HTK-703	14	JTK-188	15	LHT-1126	6
HI	17	HTK-704	14	JTK-701	14	LI	17
HI-DEC	17	HTK-705	14	JTK-702	14	LI	17
HI-PWR	17	HTK-706	14	JTK-703	14	LL	18

LLE	17	MI-1102	55	R-620	44	SF-214	27
LLOOP	19	MI-1109	55	R-621	44	SF-216	27
LMP	17	MI-1126	55	R-625	44	SI	30
LP-007/007P	54	MTB-01	57	R-626	44	SJS	31
LP-808/808P	54	PAN-802	54	R-635	45	SK05	21
LP-900/900P	54	PAN-809	54	R-636	45	SK14	21
LREC	19	PD-G301	23	R-640	44	SK18	21
LT	18	PD-G302	23	R-650	44	SK24	21
LT2,4,6,8	16	PD-G303	24	R-651	44	SK36	21
LTK-123	15	PD-G304	24	R-656	45	SK48	21
LTK-150	12	PD-HHT48/96	25	R-657	45	SL	30
LTK-178	14	PD-JHT48/96	25	R-658	45	SLB	32
LTK-188	15	PD-LHT48/96	25	R-660S-N	47	SLE	30
LTK-701	14	PD-ME48/96	25	R-661S-R	47	SR-18"SR-48"32	
LTK-702	14	PD-MI48/96	25	R-662S-N-IC	47	SRT-250M	32&57
LTK-703	14	PD-MO48/96	25	R-6GK	46,47	SRT-500M	32&57
LTK-704	14	PD-ST48/96	25	R-700D-R	43	SST-60E	32&57
LTK-705	14	PD-TU48/96	25	R-701D-N	43	SST-150E	32&57
LTK-706	14	R-400S-N	49	R-702D-N-IC	43	ST4,8	30
LTK-718	14	R-401S-R	49	R-715	43	STBC	32
LTK-720	13	R-402S-N-IC	49	R-720	43	SWB	32
LTK-725	15	R-420	48	R-750	43	SW-3	56
LTK-730	13	R-421	48	R-SGK	42	T3-3-12V	29
LTK-738	13	R-423	48	SBH-101	28	T3-5-12V	29
LTK-743	15	R-425	48	SBH-102	28	T3-5-24V	29
LTK-744	15	R-430	48	SBH-105	28	T3-7.5-24V	29
LTK-745	15	R-435	48	SBH-106	28	T-BAR CLIP	19
LTK-753	12	R-440	48	SBH-110	28	TBKT	21
LTK-754	12	R-4GK	49	SBS-11	20	X18	21&54
LTK-755	12	R-600D-N	46	SBS-16	20	X24	21&54
LX	18	R-601D-R	46	SC4	32	X36	21&54
MBS-11	20	R-602D-N-IC	46	SC8	32	X48	21&54
MBS-16	20	R-603D-R-IC	46	SCK	32	XL-5-12V	29
ME-007	55	R-604D-N-IC	47	SEC	30	XL-5-24V	29
ME-808	55	R-615	44	SFC	31	XL-10-12V	29
ME-900	55	R-616	44	SFC-150E	31	XL-10-24V	29
MIK	32	R-617	45	SF-209	27	008FP	7
		R-618	45	SF-211	27	801BD	8

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