

TOOLS FOR THE LIGHTING PROFESSIONAL



BELFER
LIGHTING FOR ARCHITECTURE

STEP & AISLE LIGHTING

Classic • Simple • Durable • Powerful

Step lighting presents a series of challenges to the designer. It must adequately and fully illuminate steps, stairwells and adjacent pedestrian areas. It should be unobtrusive, economical to operate and reliable over years of constant use. It must be damage resistant in all indoor and outdoor conditions, and yet be easy to install and service when required.

The Step and Aisle Lighting Collection from Belfer has been designed and constructed with all these challenges in mind. Faceplates sculpted of cast aluminum offer durability as well as classic design. Low voltage, xenon and compact fluorescent lamp choices can create low level pools of light or high intensity illumination to meet any project requirement. Polycarbonate, tempered glass and PhotoOsmetic™ lenses resist damage while controlling and directing the light. Cast and formed aluminum housings are suitable for concrete pour and include weatherproof gasketing to withstand harsh environmental conditions. Finally, a durable powder coat finish is applied to ensure long lasting beauty.

Engineered, designed and tested with the most demanding conditions in mind, the Belfer Step and Aisle Collection is ideally suited for use in commercial and public, indoor and outdoor installations.



Features



DURABLE POWDER COAT FINISHES



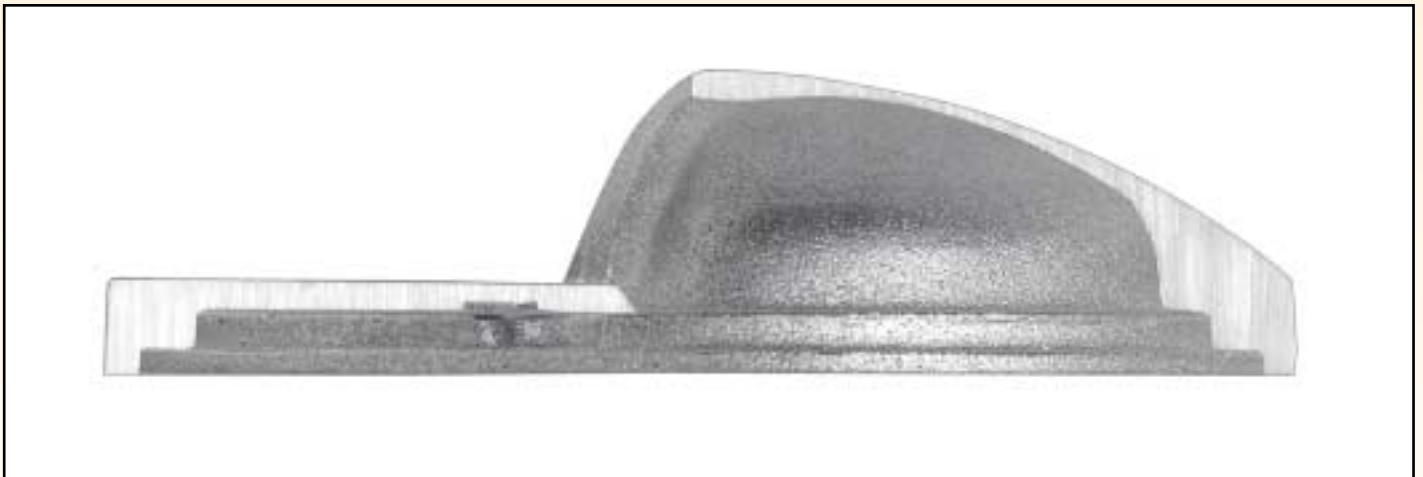
UL LISTED WET LOCATION



LENS OPTIONS FOR VARIABLE ILLUMINATION



ONE PIECE, DIE-CUT, WEATHER PROOF GASKETS

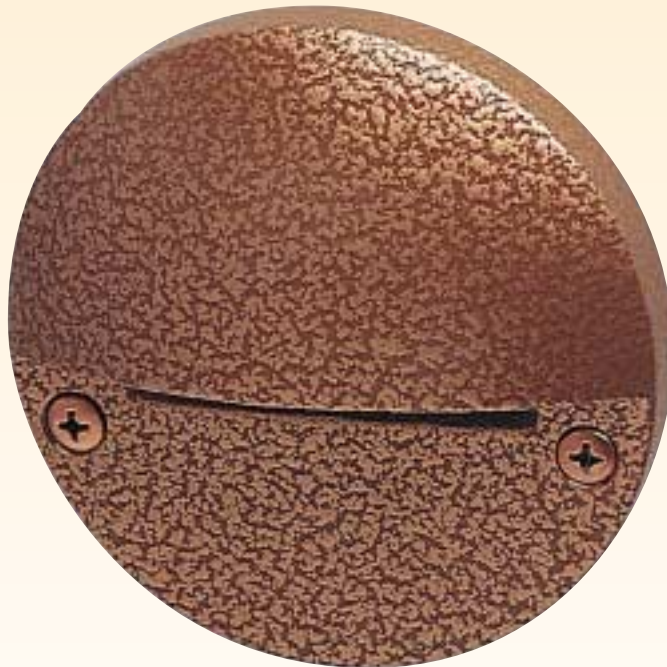


HEAVY DUTY CAST ALUMINUM CONSTRUCTION

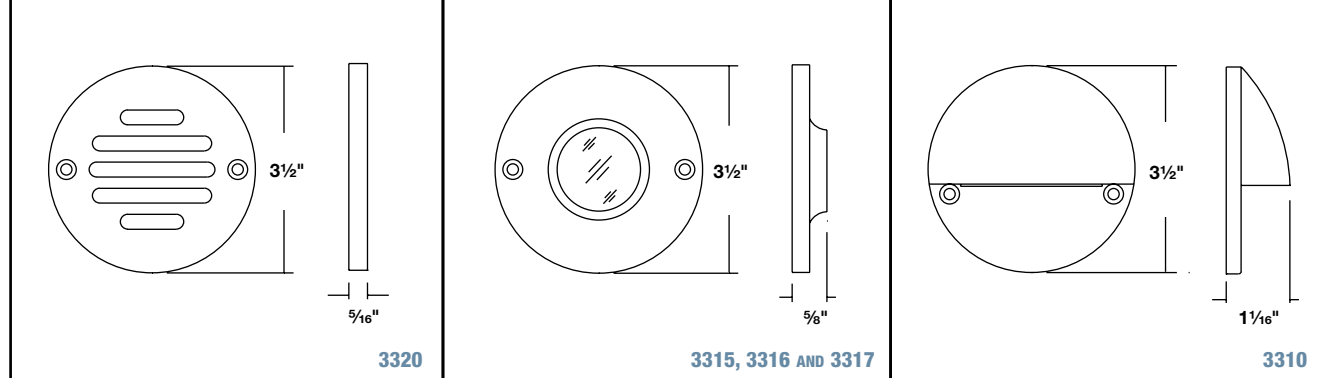
The 3310, 3315, 3316, 3317 & 3320 Series



3316 WH SHOWN
ACTUAL SIZE



3310 COP SHOWN
ACTUAL SIZE



3310, 3315, 3316, 3317 & 3320 Series

3 1/2" ROUND STEP & AISLE LIGHTS

- Cast Aluminum Faceplate, Weather-Gasketed and Sealed
- Cast Aluminum Housing Suitable for Concrete Pour
- Housing Cutout (nominal):
 - 2 1/2" Diameter, 2 3/4" Depth (refer to page 14)
- Voltage Options:
 - 12 Volt, Transformer Required (refer to page 12)
 - 24 Volt, Transformer Required (refer to page 12)
- Lamp Options (included):
 - Halogen - 10 Watt Max., 12 Volt Bi-Pin
 - Incandescent - 4.72 Watt, 24 Volt Wedge Base Xenon
 - Alternate Lamps Available (refer to page 13)
- Powder Coat Finish Options:
 - White
 - Black
 - Copper
 - Raw Aluminum
- UL and CUL Listed Wet Location



3310 COP



3316 WH



3320 BL

Ordering Format

Please specify both faceplate and housing. Choose one from each category

FACEPLATE

3310FP

scoop

3315FP

frosted lens

3316FP

clear magnifier lens

3317FP

photo osmetic™
micro louver lens

3320FP

louver

FINISH

WH

white

BL

black

COP

copper

RAW

raw

HOUSING

R-3H-12

12V halogen housing
10W, bi-pin halogen lamp included (transformer required, refer to page 12)

R-3I-24

24V xenon housing
4.72W wedge base xenon lamp included
(transformer required, refer to page 12)

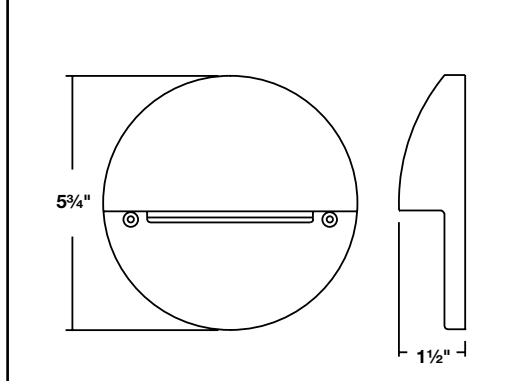
Refer to page 14 for housing details



The 3330 Series



3330 WH SHOWN
ACTUAL SIZE



3330 Series

5 3/4" DIAMETER STEP & AISLE LIGHT

- Cast Aluminum Faceplate, Weather-Gasketed and Sealed
- Cast Aluminum Housing Suitable for Concrete Pour
- Housing Cutout (nominal):
 - 4 1/2" Diameter, 1 5/8" Depth *(refer to page 14)*
- Voltage Options:
 - 12 Volt, Transformer Required *(refer to page 12)*
 - 120 Volt
- Lamp Options (included):
 - Incandescent - 6 Watt 6S6, 120 Volt
 - Incandescent - 10 Watt 10C7, 120 Volt
 - Halogen - 20 Watt Max., 12 Volt Bi-Pin
 - Alternate Lamps Available *(refer to page 13)*
- Powder Coat Finish Options:
 - White
 - Black
 - Copper
 - Raw Aluminum
- UL and CUL Listed Wet Location



3330FP WH



3330FP BL

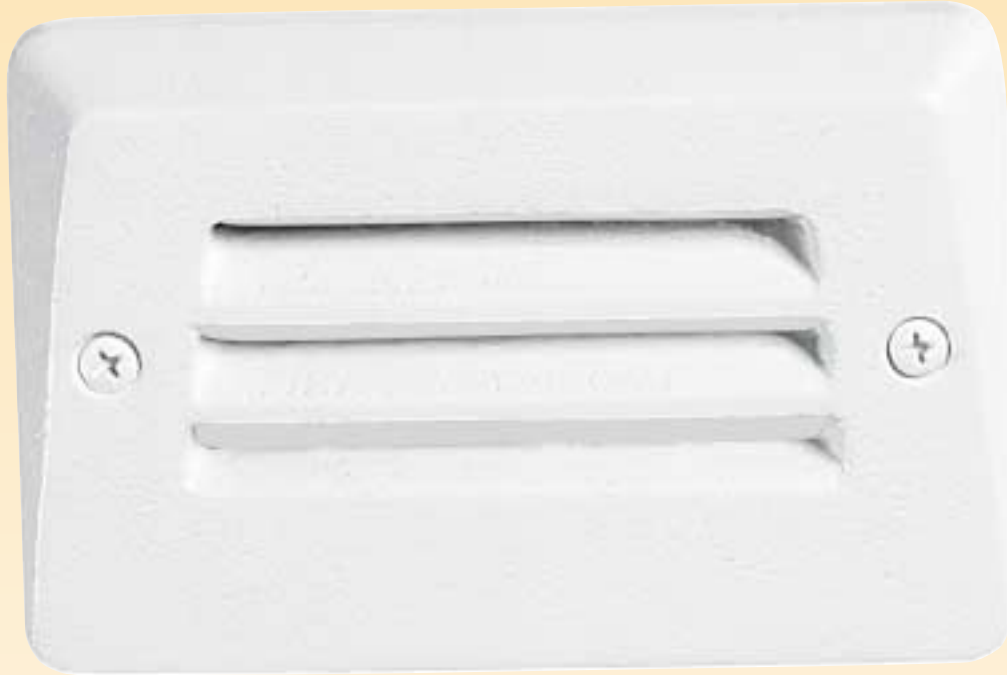
Ordering Format

Please specify both faceplate and housing. Choose one from each category

FACEPLATE	FINISH	HOUSING	
3330FP scoop	WH white	R-6H-12	12V halogen housing 20W, bi-pin halogen lamp included <i>(transformer required, refer to page 12)</i>
	BL black	R-6I-120-6S6	120V incandescent housing 6W, 6S6 lamp included
	COP copper	R-6I-120-10C7	120V incandescent housing 10W, 10C7 lamp included
	RAW raw		<i>Refer to page 14 for housing details</i>



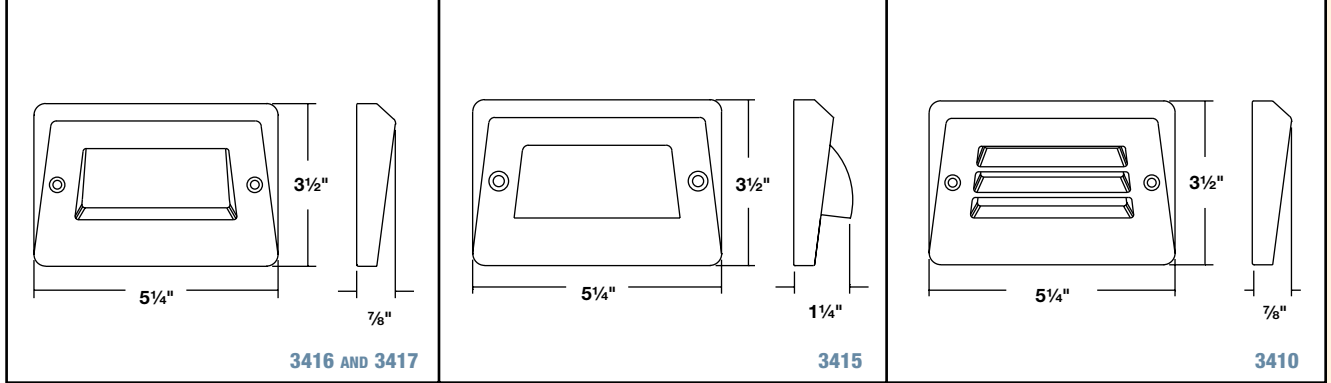
The 3410, 3415, 3416 & 3417 Series



3410 WH SHOWN
ACTUAL SIZE



3416 COP SHOWN
ACTUAL SIZE



3410, 3415, 3416 & 3417 Series

5 1/4" x 3 1/2" RECTANGULAR STEP & AISLE LIGHTS

- Cast Aluminum Faceplate, Weather-Gasketed & Sealed
- Cast Formed Aluminum Housing Suitable for Concrete Pour
- Housing Cutout (nominal):
 - 3 5/16"W x 2 1/2"H x 3"D (refer to page 14)
- Voltage Options:
 - 12 Volt, Transformer Required (refer to page 12)
 - 120 Volt
- Lamp Options (included):
 - Incandescent - 6 Watt, 6S6, 120 Volt
 - Incandescent - 10 Watt, 10C7, 120 Volt
 - Halogen - 10 Watt Max., 12 Volt Bi-Pin
 - Alternate Lamps Available (refer to page 13)
- Powder Coat Finish Options:
 - White
 - Black
 - Copper
 - Raw Aluminum
- UL and CUL Listed Wet Location



3410 WH



3415 RAW



3417 WH

Ordering Format

Please specify both faceplate and housing. Choose one from each category

FACEPLATE

3410FP

louver

3415FP

scoop

3416FP

frosted lens

3417FP

photo osmetic™
micro louver lens

FINISH

WH

white

BL

black

COP

copper

RAW

raw

HOUSING

S-5H-12

12V halogen housing
10W, bi-pin halogen lamp included (transformer required, refer to page 12)

S-5I-120-6S6

120V incandescent housing
6W, 6S6 lamp included

S-5I-120-10C7

120V incandescent housing
10W, 10C7 lamp included

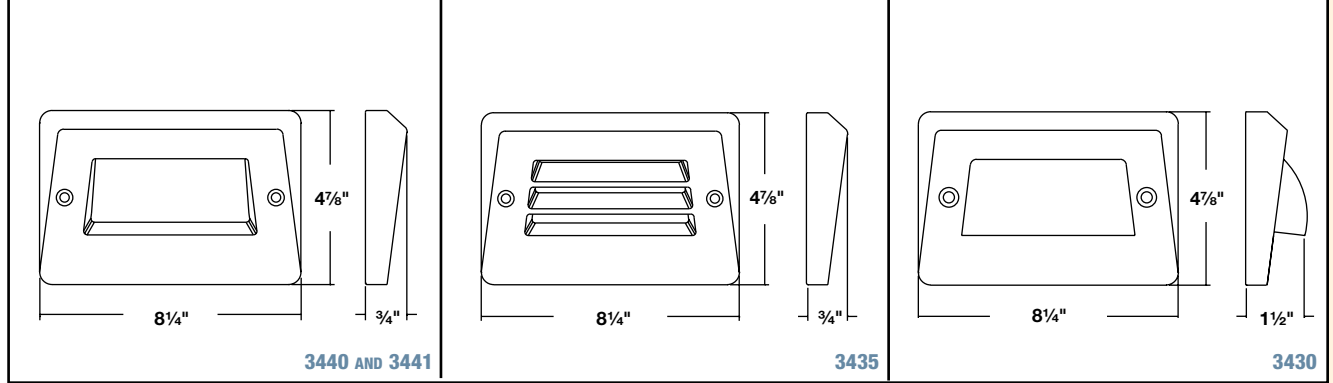
Refer to page 14 for housing details



The 3430, 3435, 3440 & 3441 Series



3430 BL SHOWN
ACTUAL SIZE



3430, 3435, 3440 & 3441 Series

8 1/4" X 4 7/8" RECTANGULAR STEP & AISLE LIGHTS

- Cast Aluminum Faceplate, Weather-Gasketed & Sealed
- Formed Aluminum Suitable for Concrete Pour
- Housing Cutout (nominal):
 - 7 3/16"W x 3 13/16"H x 3 5/8"D (refer to page 14)
- Voltage Options:
 - 120 Volt
 - 277 Volt
- Ballast Options:
 - High Power Factor
 - Electronic
- Compact Fluorescent Lamp Options:
 - 7 Watt (G23)
 - 9 Watt Quad (G23-2)
 - 13 Watt Quad (GX23-2 or G24q-1)
 - 40 Watt Max. A-19 Lamp

Refer to page 13 for lamp options
- Powder Coat Finish Options:
 - White
 - Black
 - Copper
 - Raw Aluminum
- UL and CUL Listed Wet Location



3430 BL



3435 COP



3441 WH

Ordering Format

Please specify both faceplate and housing. Choose one from each category

FACEPLATE

3430FP
scoop
3435FP
louver
3440FP
frosted lens
3441FP
photo osmotic™
micro louver lens

FINISH

WH
white
BL
black
COP
copper
RAW
raw

HOUSING

S-8I-120
S-8FL7-120H
S-8FL7-277H
S-8FL13Q-120H
S-8FL13Q-277H
S-8FL13Q-120E
S-8FL13Q-277E

120V incandescent housing
120V, 7W (G23) compact fluorescent housing, HPF (compatible with 9 watt quad (G23-2)
277V, 7W (G23) compact fluorescent housing, HPF (compatible with 9 watt quad (G23-2)
120V, 13W quad (GX23-2) compact fluorescent housing, HPF
277V, 13W quad (GX23-2) compact fluorescent housing, HPF
120V, 13W quad (G24q-1) compact fluorescent housing, electronic
277V, 13W quad (G24q-1) compact fluorescent housing, electronic

Refer to page 14 for housing details



Transformers

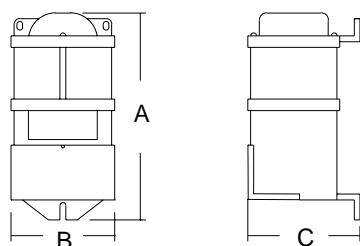
Transformers for Low Voltage Step Lights

(120V/240V primary, 12V/24V secondary)

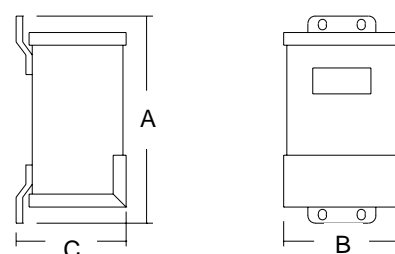
TRANSFORMER NUMBER	U/M	DESCRIPTION	DRAWING	LENGTH (A)	WIDTH (B)	HEIGHT (C)	WEIGHT
E-50-12/24	ea	12/24V 50W	1	6 3/8"	3 3/16"	3"	4 lb
E-100-12/24	ea	12/24V 100W	1	6 5/8"	3 1/4"	3 5/8"	5 lb
E-150-12/24	ea	12/24V 150W	2	7 1/8"	3 1/4"	3 5/8"	7 lb
E-250-12/24	ea	12/24V 250W	2	8 1 1/16"	4 1/8"	3 7/8"	10 lb
E-500-12/24	ea	12/24V 500W	2	9 1/16"	4 3/8"	4 3/16"	15 lb
E-750-12/24	ea	12/24V 750W	2	9 1 1/16"	4 3/4"	4 1/2"	19 lb
E-1000-12/24	ea	12/24V 1000W	2	10 1/2"	5 1/2"	5 1/8"	24 lb
E-1500-12/24	ea	12/24V 1500W	2	11 5/8"	5 1/2"	5 1/8"	30 lb

All dimensions are nominal

DRAWING 1



DRAWING 2



HOW TO SIZE YOUR POWER SUPPLY

Add the total lamp wattage of each circuit you plan to use.

For example: if you have 2 circuits, each with four 20 watt lamps, your total wattage is:

$$2 \text{ CIRCUITS} \times 4 \text{ LAMPS} = 8 \text{ LAMPS} \times 20 \text{ WATTS} = 160 \text{ WATTS}$$

DIMMER NOTICE

Only use dimmers designed and rated for magnetic loads.

Consult dimmer manufacturer for recommendations regarding your lighting application.

Recommended Wire Size and Voltage Drop*

WIRE SIZE	WATTS (VA) PER CIRCUIT																											
	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480				
12 Volt System	Maximum Secondary Wire Length in Feet																											
14 gauge	75	37	25	19	15	12	11	9	8	7	7	6	6	5	5	5	4	4	4	4	4	3	3	3				
12 gauge	118	59	39	30	24	20	17	15	13	12	11	10	9	8	8	7	7	7	6	6	6	5	5	5				
10 gauge	188	94	63	47	38	31	27	24	21	19	17	16	14	13	13	12	11	10	10	9	9	9	8	8				
8 gauge	299	149	100	75	60	50	43	37	33	30	27	25	23	21	20	19	18	17	16	15	14	14	13	12				
6 gauge	476	238	159	119	95	79	68	60	53	48	43	40	37	34	32	30	28	26	25	24	23	22	21	20				
24 Volt System																												
14 gauge	150	75	50	37	30	25	25	21	19	15	14	12	12	11	10	9	9	8	8	7	7	7	7	6				
12 gauge	237	118	79	59	47	39	39	34	30	24	22	20	18	17	16	15	14	13	12	12	11	11	10	10				
10 gauge	376	188	125	94	75	63	63	54	47	38	34	31	29	27	25	24	22	21	20	19	18	17	16	16				
8 gauge	597	299	199	149	119	100	100	85	75	60	54	50	46	43	40	37	35	33	31	30	28	27	26	25				
6 gauge	952	476	317	238	190	159	159	136	119	95	87	79	73	68	63	60	56	53	50	48	45	43	41	40				

* Charts are based on SPT-3 wire and a maximum .63 volt drop at the end of the run. Many applications allow a 2.5 volt drop.

Lamp Options

3310, 3315, 3316, 3317 & 3320 SERIES

LAMP NUMBER	DESCRIPTION	HOUSING	WATTAGE	VOLTAGE	LUMENS (nominal)	LIFE/HOURS (nominal)
464	Wedge Base Incandescent	R-3I-24	3.75W	24V	22	9,500
193-24V	Wedge Base Xenon	R-3I-24	4.72W	24V	29	13,000
G4-5-12V	Bi-pin Base Halogen	R-3H-12	5.00W	12V	60	2,000
G4-10-12V	Bi-pin Base Halogen	R-3H-12	10.00W	12V	140	2,000
ALTERNATE LAMPS						
G4F1205	Bi-pin Base Xenon	R-3H-12	5.00W	12V	45	20,000
G4F1210XH	Bi-pin Base Xenon	R-3H-12	10.00W	12V	125	10,000

3330 SERIES

LAMP NUMBER	DESCRIPTION	HOUSING	WATTAGE	VOLTAGE	LUMENS (nominal)	LIFE/HOURS (nominal)
6S6-24V	Candelabra Base	R-6I-120-6S6	6.00W	24V	41	1,500
6S6-120V	Candelabra Base	R-6I-120-6S6	6.00W	120V	48	1,500
10C7-120V	Candelabra Base	R-6I-120-10C7	10.00W	120V	56	5,000
G4-5-12V	Bi-pin Base Halogen	R-6H-12	5.00W	12V	60	2,000
G4-10-12V	Bi-pin Base Halogen	R-6H-12	10.00W	12V	140	2,000
G4-20-12V	Bi-pin Base Halogen	R-6H-12	20.00W	12V	320	2,000
ALTERNATE LAMPS						
G4F1215XH	Bi-pin Base Xenon	R-6H-12	15.00W	12V	180	10,000
G4F1220XH	Bi-pin Base Xenon	R-6H-12	20.00W	12V	250	10,000

3410, 3415, 3416 & 3417 SERIES

LAMP NUMBER	DESCRIPTION	HOUSING	WATTAGE	VOLTAGE	LUMENS (nominal)	LIFE/HOURS (nominal)
6S6-24V	Candelabra Base	S-5I-120-6S6	6.00W	24V	41	1,500
6S6-120V	Candelabra Base	S-5I-120-6S6	6.00W	120V	48	1,500
10C7-120V	Candelabra Base	S-5I-120-10C7	10.00W	120V	56	5,000
G4-5-12V	Bi-pin Base Halogen	S-5H-12	5.00W	12V	60	2,000
G4-10-12V	Bi-pin Base Halogen	S-5H-12	10.00W	12V	140	2,000
ALTERNATE LAMPS						
G4F1205X	Bi-pin Base Xenon	S-5H-12	5.00W	12V	45	20,000
G4F1210XH	Bi-pin Base Xenon	S-5H-12	10.00W	12V	125	10,000

3430, 3435, 3440 & 3441 SERIES

LAMP NUMBER	DESCRIPTION	HOUSING	WATTAGE	LUMENS (nominal)	LIFE/HOURS (nominal)
CF7/35K	Twin 3500°K G23 Base Compact Fluorescent	S-8FL7-120H S-8FL7-277H	7W	400	10,000
CF9Q/35K	Quad 3500°K G23-2 Base Compact Fluorescent	S-8FL7-120H S-8FL7-277H	9W	550	10,000
CF13Q/35K/2	Quad 3500°K GX23-2 Base Compact Fluorescent (2 pins)	S-8FL13Q-120H S-8FL13Q-277H	13W	860	10,000
CF13Q/35K/4	Quad 3500°K G24q-1 Base Compact Fluorescent (4 pins)	S-8FL13Q-120E S-8FL13Q-277E	13W	900	10,000
40A19	A19 Medium Base Incandescent	S-8I-120	40W		

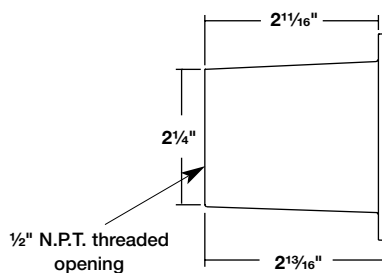
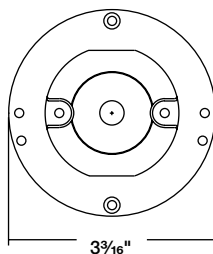
Housing Details

3310, 3315, 3316, 3317 & 3320 SERIES

HOUSING

R-3H-12

R-3I-24



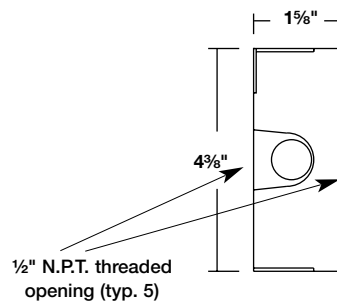
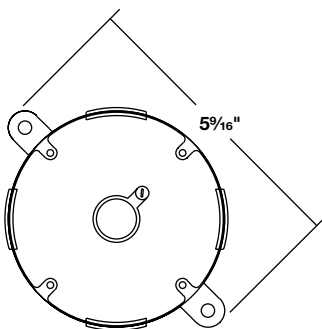
3330 SERIES

HOUSING

R-6H-12

R-6I-120-6S6

R-6I-120-10C7



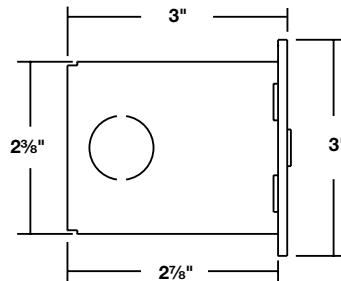
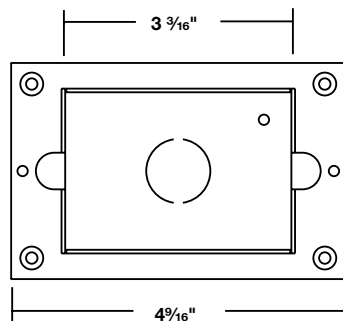
3410, 3415, 3416 & 3417 SERIES

HOUSING

S-5H-12

S-5I-120-6S6

S-5I-120-10C7



3430, 3435, 3440 & 3441 SERIES

HOUSING

S-8I-120

S-8FL7-120H

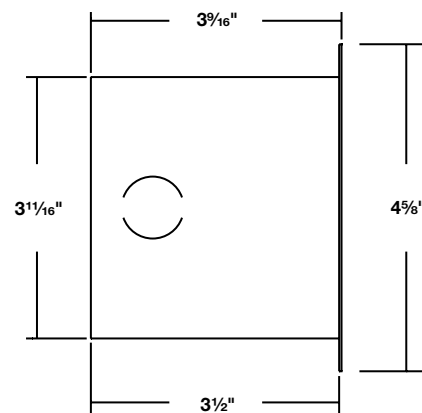
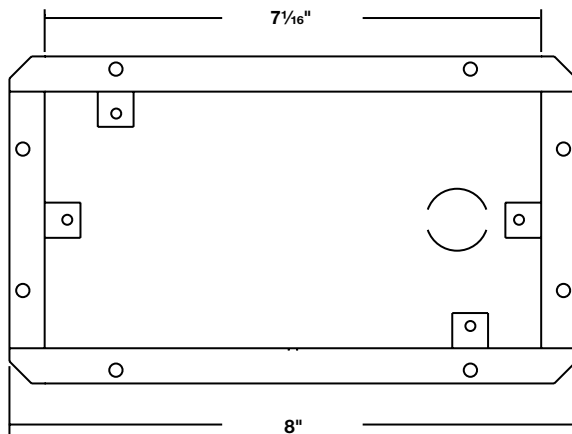
S-8FL7-277H

S-8FL13Q-120H

S-8FL13Q-277H

S-8FL13Q-120E

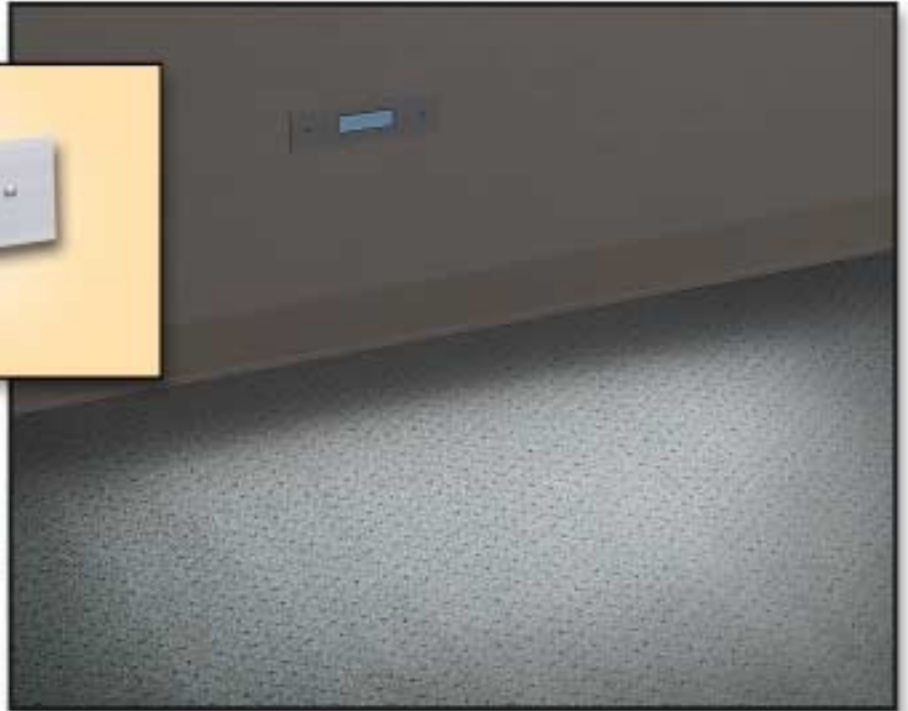
S-8FL13Q-277E



Quality Step & Aisle Fixtures



3510 S SHOWN
STEP & CORRIDOR LIGHT WITH
PHOTOOSMETIC™ LENS



1320 MWR SHOWN WITH 1320A PGS WHITE TRIM
REFLEX® RECESSED WALL WASH FIXTURE

In addition to the Step and Aisle lighting fixtures presented herein, Belfer offers two fixture series which combine innovative construction and compact fluorescent sources to provide efficient step, aisle and walkway illumination.

The 3510 - Originally designed for patient room lighting, this unobtrusive, glare free luminaire allows patients to sleep while maintaining a well illuminated walkway area in hospitals and healthcare facilities. Nearly invisible and easy to maintain, the 3510 has found applications in theatres, nightclubs, auditoriums, banquet facilities and casinos. Energy efficient compact fluorescent lamps provide long life and high output from these ADA approved fixtures. Powerful, compact and flush to the wall, the 3510 draws attention to the walkway surface and not itself.

The Reflex® - Engineered to fit neatly between the studs of new construction or renovations, the simplicity and elegance of our Reflex® design make this fixture an ideal choice for retail, hospitality or corporate applications. The Reflex® Series is designed to be lamp compatible with specification grade downlights and indirect pendants. One piece seamless reflectors are available in a stylish array of architectural finishes. The clean lines of the Reflex® design are complimented by a variety of architectural grade trims and tempered glass lenses. Installed at aisle level, these fixtures are perfect for illumination of corridors, landings and hallways.

COVER

THE GETTY CENTER

ARCHITECT: RICHARD MEIER PARTNERS

PHOTOGRAPHER: SCOTT FRANCES/ESTO

PHOTOGRAPHY COURTESY OF THE J. PAUL GETTY TRUST

PAGE 2

PARIS LAS VEGAS CASINO RESORT

LÉ THÉÂTRE DES ARTS

ARCHITECT: BERGMAN, WALLS & YOUNGBLOOD, LTD.

DESIGNER: YATES-SILVERMAN, INC.

DESIGNER: KOVAC & ASSOCIATES

PHOTOGRAPHER: BRETT DRURY, BRETT DRURY ARCHITECTURAL PHOTOGRAPHY, INC.



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www.belfer.com

All Belfer products are designed, engineered, fabricated and
manufactured in our own facilities in the United States

a BELFERGROUP company
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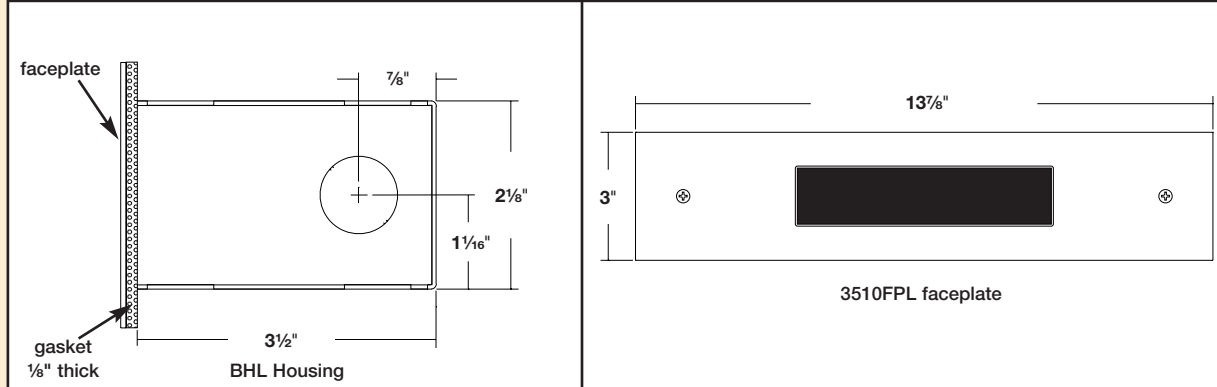
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TOOLS FOR THE LIGHTING PROFESSIONAL



BELFER
LIGHTING FOR ARCHITECTURE

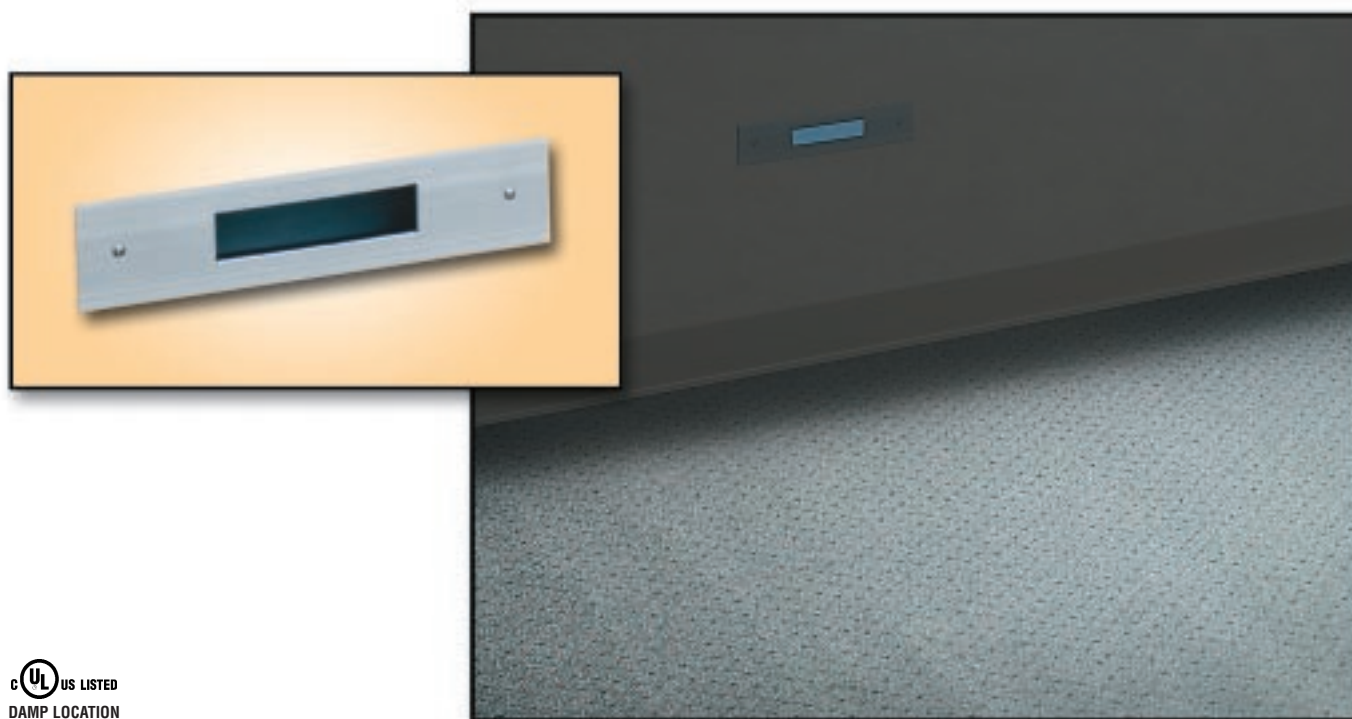
*STEP & AISLE LIGHTING
WITH PHOTOOSMETIC™ LENS*



3510L Series

STEP & CORRIDOR LIGHT WITH PHOTOOSMETIC™ LENS
9 WATT, 13 WATT, 18 WATT QUAD & 26 WATT QUAD

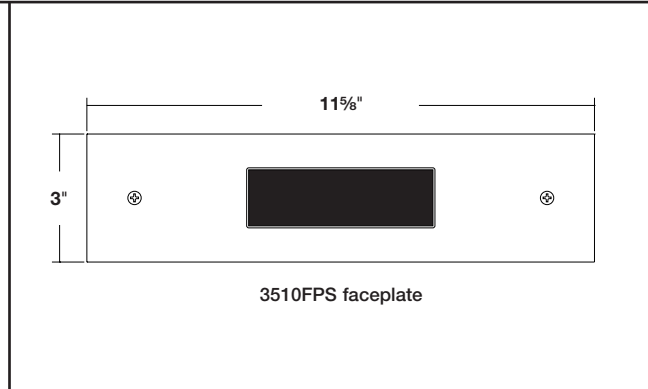
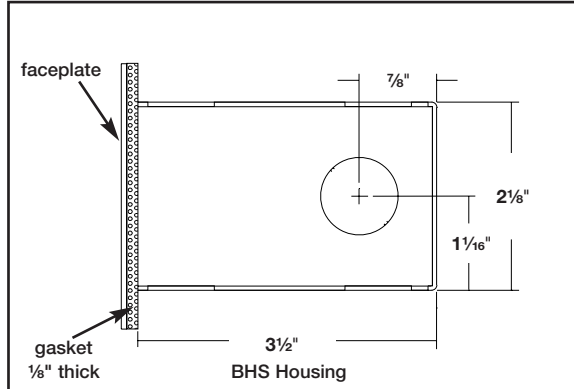
- **Housing Cutout (nominal):**
12 5/16"W x 2 3/16"H x 3 1/2"D
- **Compact Fluorescent Lamp Options:**
 - 9 Watt (G23)
 - 13 Watt (GX23)
 - 18 Watt Quad (G24q-2)
 - 26 Watt Quad (G24q-3)
- **Voltage Options:**
 - 120 Volt
 - 277 Volt
- **Standard Ballast Options:**
 - High Power Factor (120 volt only)
 - Normal Power Factor (120 volt only)
 - Electronic (120 volt and 277 volt)
(4 pin 18 watt and 26 watt quad lamps only)
- UL and CUL Listed Damp Location Standard
Wet Location Kit Available # 3510LWL



 US LISTED
 DAMP LOCATION
 WET LOCATION KIT AVAILABLE

BELFER LIGHTING FOR ARCHITECTURE

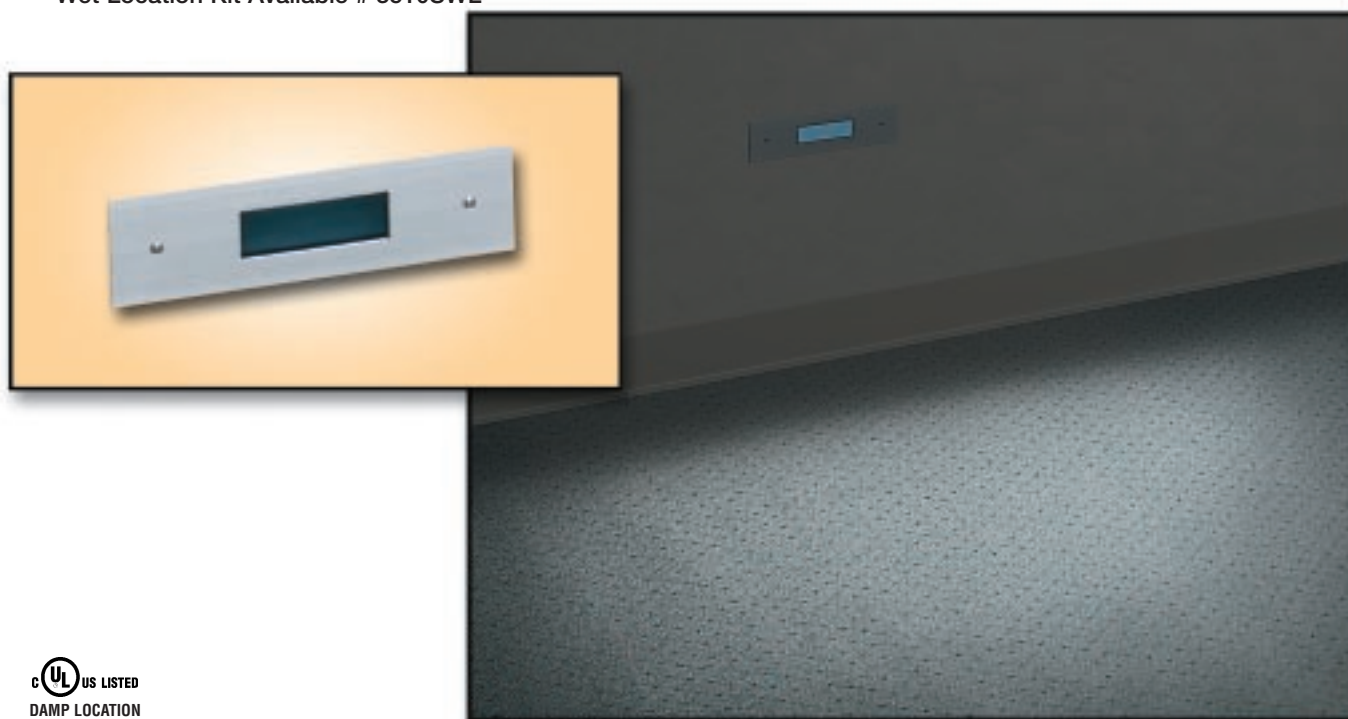
TEL: (732) 493-2666 . FAX: (732) 493-2941 . www.belfer.com



3510S Series

STEP & CORRIDOR LIGHT WITH PHOTOOSMETIC™ LENS
5 WATT, 7 WATT, 9 WATT QUAD & 13 WATT QUAD

- **Housing Cutout (nominal):**
10 1/8"W x 2 3/16"H x 3 1/2"D
- **Compact Fluorescent Lamp Options:**
 - 5 Watt (G23)
 - 7 Watt (G23)
 - 9 Watt Quad (G23-2)
 - 13 Watt Quad (GX23-2)
 - 13 Watt Quad (G24q-1)
- **Voltage Options:**
 - 120 Volt
 - 277 Volt
- **Standard Ballast Options:**
 - High Power Factor (120 volt only)
 - Normal Power Factor (120 volt only)
 - Electronic (120 volt and 277 volt)
(4 pin 13 watt quad G24q-1 lamp only)
- UL and CUL Listed Damp Location Standard
Wet Location Kit Available # 3510SWL



UL US LISTED
DAMP LOCATION
WET LOCATION KIT AVAILABLE


BELFER LIGHTING FOR ARCHITECTURE

TEL: (732) 493-2666 . FAX: (732) 493-2941 . www.belfer.com

3510L Series

Ordering Format


Please specify both faceplate and housing. Choose one from each category

FACEPLATE	HOUSING	LAMP	VOLTAGE	BALLAST
<div> UL US LISTED DAMP LOCATION WET LOCATION KIT AVAILABLE</div> <div>3510FPL faceplate</div>	BHL housing	9 9 watt compact fluorescent (G23)	1 120 volt	N normal power factor
		13 13 watt compact fluorescent (GX23)		H high power factor
		18Q 18 watt quad compact fluorescent (G24q-2)	1 120 volt	E electronic
		26Q 26 watt quad compact fluorescent (G24q-3)	2 277 volt	

3510S Series

Ordering Format

Please specify both faceplate and housing. Choose one from each category

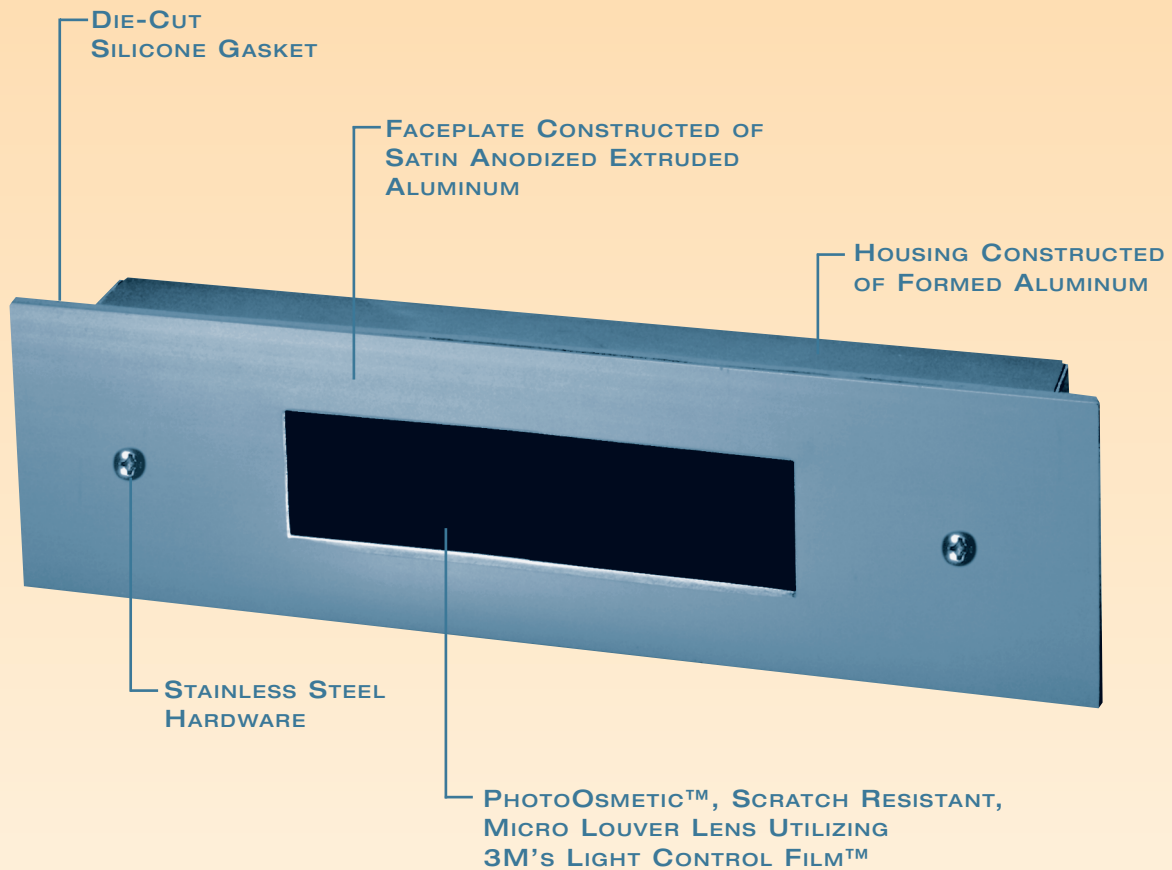
FACEPLATE	HOUSING	LAMP	VOLTAGE	BALLAST
<div> UL US LISTED DAMP LOCATION WET LOCATION KIT AVAILABLE</div> <div>3510FPS faceplate</div>	BHS housing	5 5 watt compact fluorescent (G23)	1 120 volt	N normal power factor
		7 7 watt compact fluorescent (G23)		H high power factor
		9Q 9 watt quad compact fluorescent (G23-2)	1 120 volt	E electronic
		13Q 13 watt quad compact fluorescent (GX23-2)		
		13Q 13 watt quad compact fluorescent (G24q-1)	2 277 volt	

Step Light Lamp Specifications

	LAMP NUMBER	DESCRIPTION	LUMENS (nominal)	LIFE/HOURS (nominal)
For use with Housing BHL	CF9/35K	9W Twin Tube 3500°K G23 Base Compact Fluorescent	600	10,000
	CF13/35K	13W Twin Tube 3500°K GX23 Base Compact Fluorescent	900	10,000
	CF18Q/35K/4	18W Quad Tube 3500°K G24q-2 Base Compact Fluorescent	1,250	10,000
	CF26Q/35K/4	26W Quad Tube 3500°K G24q-3 Base Compact Fluorescent	1,800	10,000
For use with Housing BHS	CF5/35K	5W Twin Tube 3500°K G23 Base Compact Fluorescent	250	10,000
	CF7/35K	7W Twin Tube 3500°K G23 Base Compact Fluorescent	400	10,000
	CF9Q/35K	9W Quad Tube 3500°K G23-2 Base Compact Fluorescent	550	10,000
	CF13Q/35K/2	13W Quad Tube 3500°K GX23-2 Base Compact Fluorescent	860	10,000
	CF13Q/35K/4	13W Quad Tube 3500°K G24q-1 Base Compact Fluorescent	900	10,000

Features

ORIGINALLY DESIGNED FOR PATIENT ROOM LIGHTING, THIS UNOBTRUSIVE, GLARE FREE LUMINAIRE ALLOWS PATIENTS TO SLEEP WHILE MAINTAINING A WELL ILLUMINATED WALKWAY AREA IN HOSPITALS AND HEALTHCARE FACILITIES. NEARLY INVISIBLE AND EASY TO MAINTAIN, THE 3510 HAS FOUND APPLICATIONS IN THEATRES, NIGHTCLUBS, AUDITORIUMS, BANQUET FACILITIES AND CASINOS. ENERGY EFFICIENT COMPACT FLUORESCENT LAMPS PROVIDE LONG LIFE AND HIGH OUTPUT FROM THESE ADA APPROVED FIXTURES. POWERFUL, COMPACT AND FLUSH TO THE WALL, THE 3510 DRAWS ATTENTION TO THE WALKWAY SURFACE AND NOT ITSELF.



- SUITABLE FOR CONCRETE POUR
- CUSTOM FINISHES AVAILABLE, CONSULT FACTORY
- OPTIONAL TAMPER-PROOF HARDWARE KIT
ORDER # 3510TPK
- OPTIONAL GLR FUSE KIT
ORDER # GLR FUSE KIT
- UL AND CUL LISTED DAMP LOCATION
- UL AND CUL LISTED WET LOCATION KIT AVAILABLE
ORDER # 3510LWL OR 3510SWL

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www.belfer.com

All Belfer products are designed, engineered, fabricated and
manufactured in our own facilities in the United States

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Just a word about ballasts

Belfer works closely with ballast manufacturers to test and select quality ballasts in order to assure the most reliable fixture operation. There are four different types of ballasts utilized in our fluorescent products.

Normal Power Factor (N or NPF) Ballasts:

Quality Normal Power Factor ballasts are primarily used in installations where minimum space is available.

High Power Factor (H or HPF) Ballasts:

Our standard High Power Factor ballasts carry a Class A sound rating and offer a Power Factor rating of .90 or better. High Power Factor ballasts consume less energy than Normal Power Factor (NPF) ballasts, due to capacitive power factor correction.

Electronic (E or ELB) Ballasts:

Our standard Electronic ballasts also carry a Class A sound rating and are quieter and less expensive to operate than High Power Factor (HPF) or Normal Power Factor (NPF) ballasts. Electronic ballasts are able to start lamps at lower temperatures and are more efficient than High Power Factor ballasts due to high frequency operation.

Dimming (D or DMB) Ballasts:

Belfer is an authorized Lutron Dimming ballast OEM. Lutron provides one of the most popular and reliable dimming ballasts in the industry. The Lutron Eco-10™ ballasts provide a dimming range of 100% to 10%. Although Lutron Eco-10™ dimming ballasts are standard in many of our products, other quality dimming sources are available. Please consult our sales department for more information.

Substitution of Ballasts:

Based on our quality assured testing of ballasts, unless specified, we select ballasts at our discretion. Of course, the specification may indicate a particular type or brand of ballast suitable for the installation. This may adjust costs and lead times for our products. At the customers request, we will also install ballasts supplied to us by an authorized ballast distributor. If requested, we may also ship fluorescent products without ballasts.

Ballast Warranties:

At Belfer, we supply the best grade of ballasts from top rated manufacturers. Ballasts are covered by warranties issued by the ballast manufacturer. This warranty is passed through to our customer. There are varying terms and conditions that may apply to your specific installation. Copies of respective ballast warranties are available upon request.