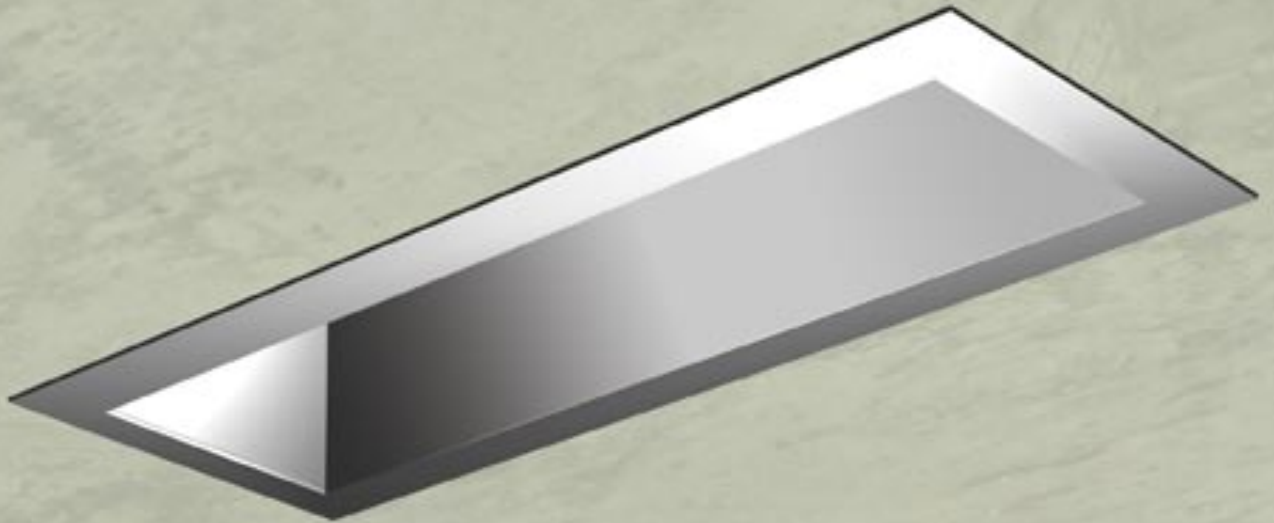


# COMBO EDGE

recessed multi-lamp fixtures

with a deep regressed

splayed trim



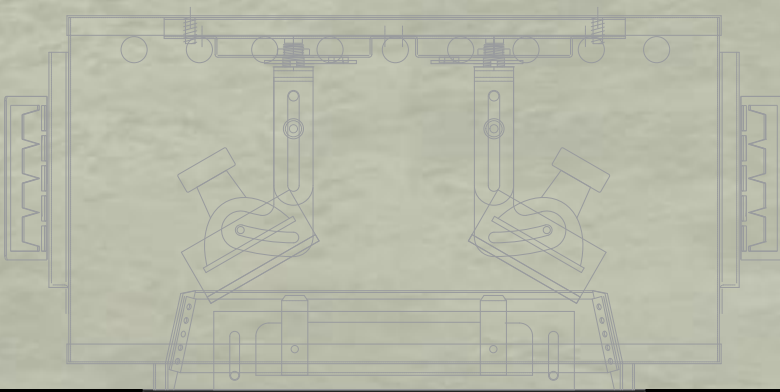
available in low voltage halogen

line voltage incandescent

metal halide and

compact fluorescent

lamp sources



  
**COOPER** Lighting

**RSA LIGHTING**

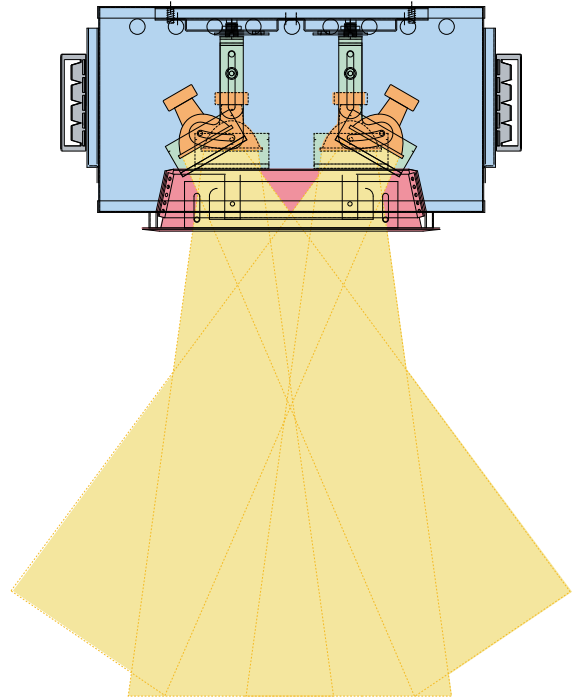
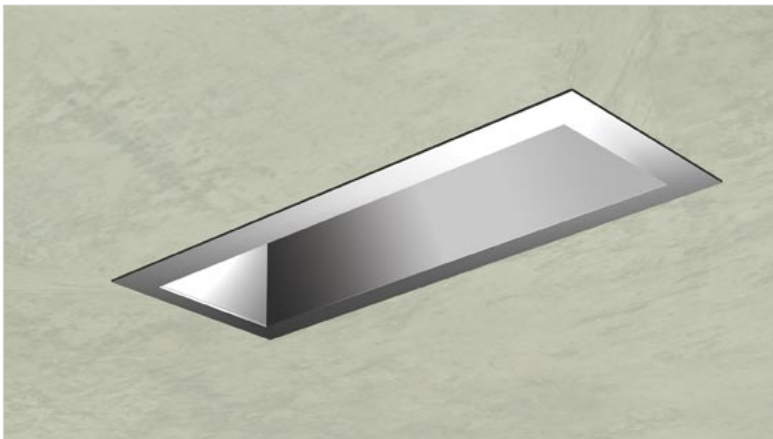


Combo Edge is an all new multi-lamp luminaire which combines all of the adjustable features of RSA's Combolight with a new deep regressed trim. These splayed trims offer increased cut-off due to the deep position of the lamp source. With independently adjustable locking lamp holders that allow a full 368° x 45° of range, Combo Edge is ideal for retail and museum display applications. Combo Edge is available with low voltage halogen, line voltage incandescent, metal halide (including the new BriteSpot ES16 lamp) and compact fluorescent triple tube lamps.

**COMBO EDGE ACCENT / DOWNLIGHTS**

page 4 - 17

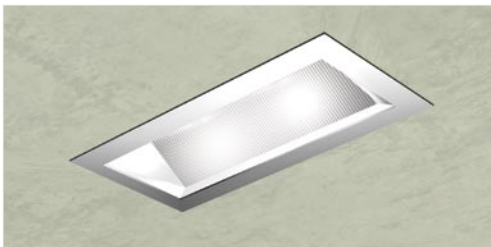
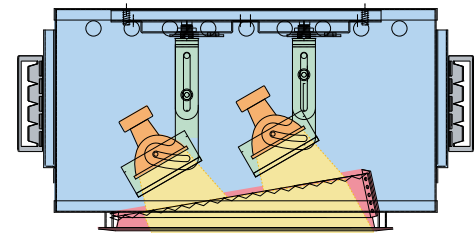
The Accent/Downlight fixtures offer the widest range of application possibilities. The Combo Edge trim insert has a 2" depth (2.5" on PAR38 models) with 77° taper which offers greatly reduced lamp glare. The fixture housing includes an adjustable plaster frame which can accommodate ceiling thicknesses from 1/2" to 1-3/8". The height of the lamp holders adjust to the position of the reflector to always allow optimal lamp placement.



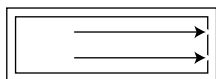
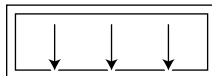
**COMBO EDGE WALL WASHERS**

page 20 - 32

The Wall Washer fixtures enable clean and even illumination across vertical surfaces. The upper aperture of the trim insert is cut at an angle to allow the lamp beam greater access for illumination. Combo Edge Wall Washers are available with trim inserts configured for lateral installations or transverse installations. These fixtures utilize the same highly adjustable lamp holder as the accent downlights. Included with every wall washer is a linear spread lens which increases the spread of light and helps to even out the lamp beam for a smooth wash of light.



Wall Washer with Lateral Configuration

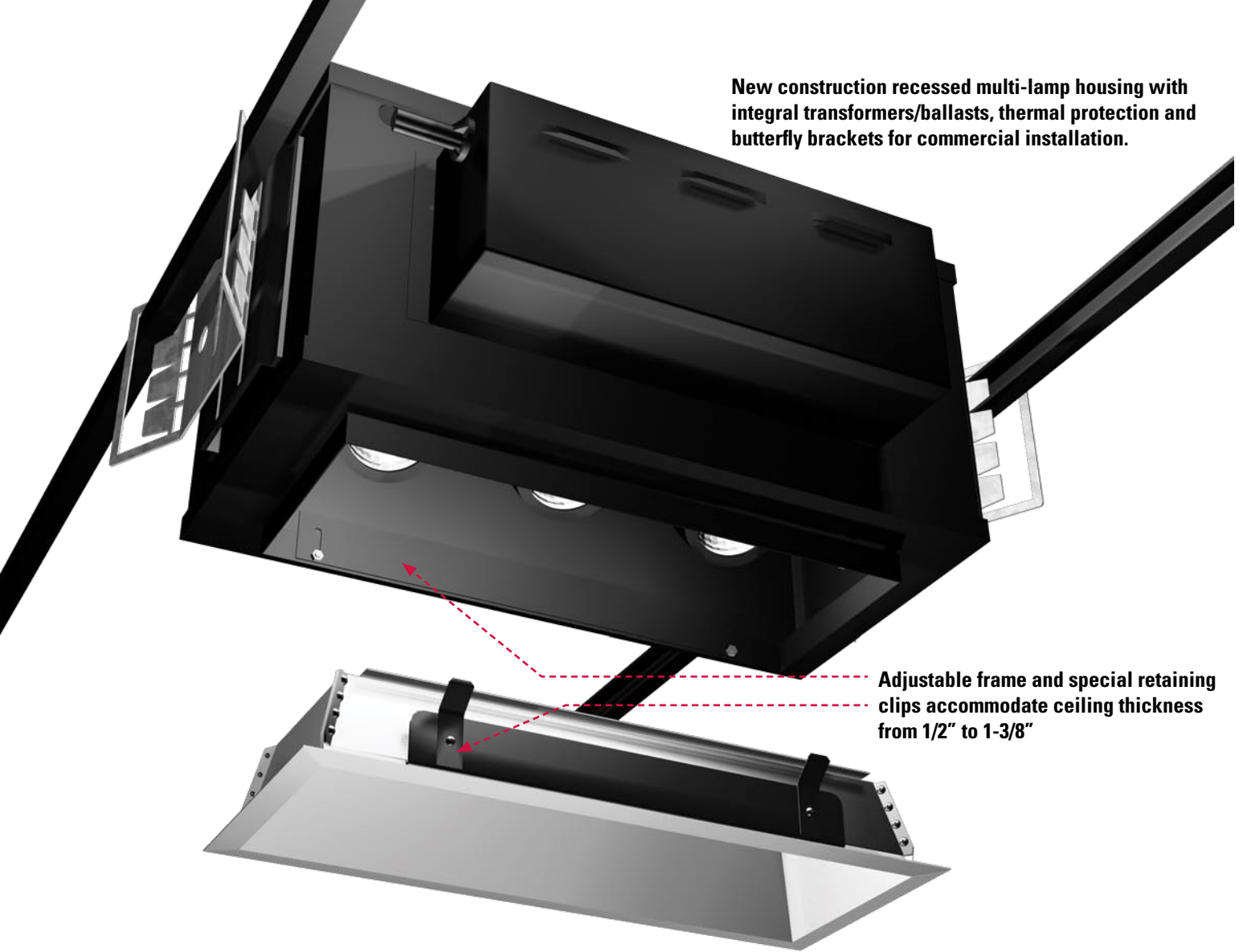


Wall Washer with Transverse Configuration





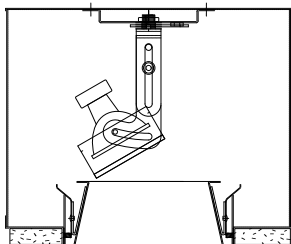
New construction recessed multi-lamp housing with integral transformers/ballasts, thermal protection and butterfly brackets for commercial installation.



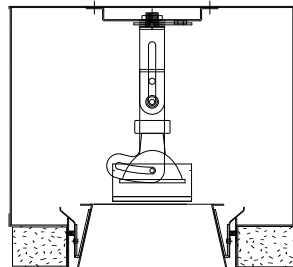
Adjustable frame and special retaining clips accommodate ceiling thickness from 1/2" to 1-3/8"

Adjustable lamp holders enable the use of one housing type with three different trim inserts - Accent/Downlight, Lateral Wall Washer & Transverse Wall Washer

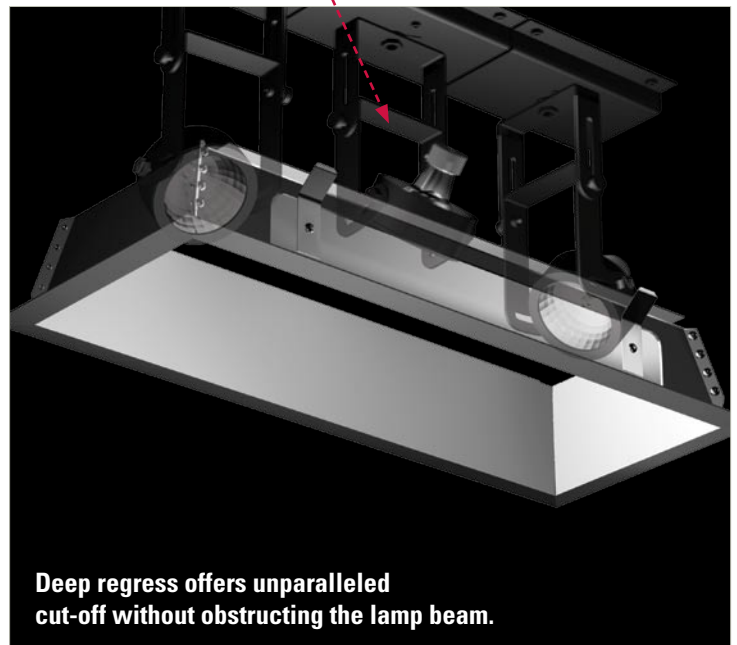
Can accommodate ceiling thicknesses from 1/2" to 1-3/8". Lamp holder height adjusts to accommodate the position of the reflector to always allow optimal lamp placement.



1/2" Ceiling



1-3/8" Ceiling



Deep regress offers unparalleled cut-off without obstructing the lamp beam.

**Accent/Downlight Fixture Lamp Types**

**MR16 12 Volt Halogen** page 6

**AR70 12 Volt Halogen** page 7

**AR111 12 Volt Halogen** page 8

**PAR16 120 Volt Incandescent** page 9

**PAR20 120 Volt Incandescent** page 10

**PAR30 120 Volt Incandescent** page 11

**PAR38 120 Volt Incandescent** page 12

**ES16 BriteSpot Metal Halide** page 13

**PAR20 Metal Halide** page 14

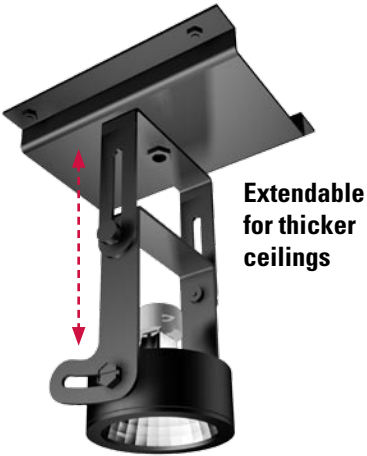
**PAR30 Metal Halide** page 15

**PAR38 Metal Halide** page 16

**Triple Tube Fluorescent** page 17



**Retractable  
for thinner  
ceilings**



**Extendable  
for thicker  
ceilings**



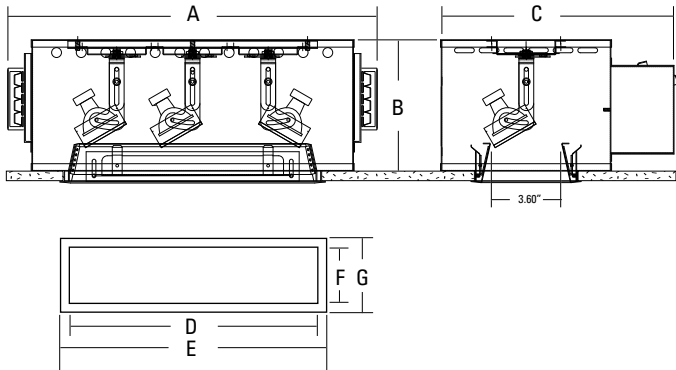
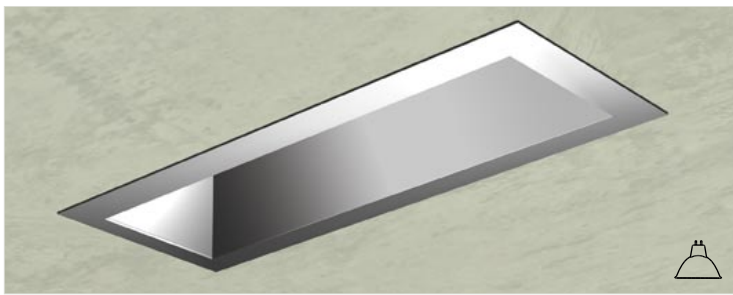
**Swing-back  
adjustment and 45° tilt  
for greater aiming**



**368° Rotation**

# COMBO EDGE - ACCENT/DOWNLIGHT - 12V MR16

COMBO EDGE - ACCENT/DOWNLIGHT - 12V MR16



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

### TRIM INSERT FINISHES

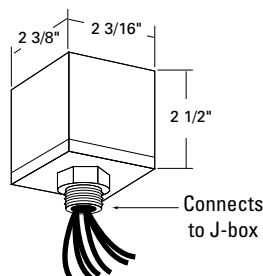
Black Powder Coat

White Powder Coat

Clear Alzak



Optional Relay Emergency Module - add "-EM" to the end of the catalog number



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1M16</b>	(1) One Light 12V MR16
<b>CED2M16</b>	(2) Two Light 12V MR16
<b>CED3M16</b>	(3) Three Light 12V MR16

### Wattage

<b>20</b>	20 Watt 12V MR16
<b>37</b>	37 Watt 12V MR16
<b>42</b>	42 Watt 12V MR16
<b>50</b>	50 Watt 12V MR16
<b>71</b>	71 Watt 12V MR16

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Emergency Lighting

<b>EM</b>	Relay Emergency Module
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### Ordering Example

#### **CED3M16-37-CA-120**

3 Light Combo Edge Accent/Downlight for MR16 lamp, 37 watt, Clear Alzak trim, 120V

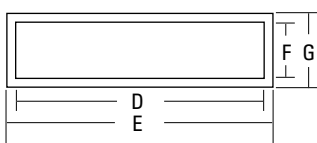
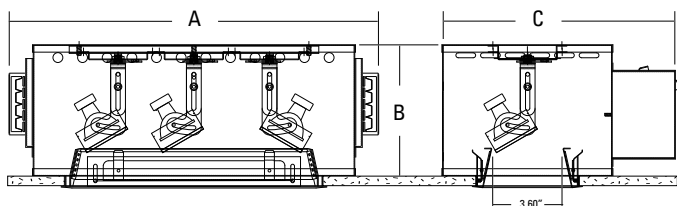
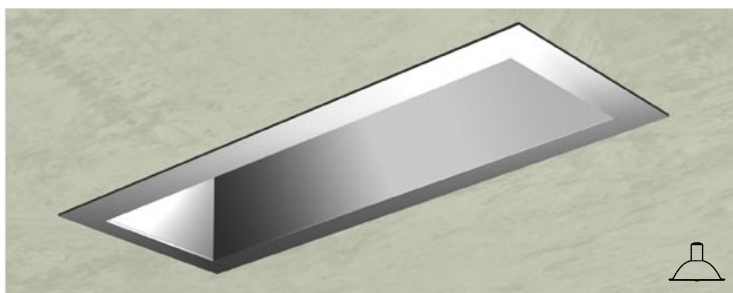
### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module allows the conversion of one of the fixture's lamps to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W. (See page 33 for details.)

# COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR70



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

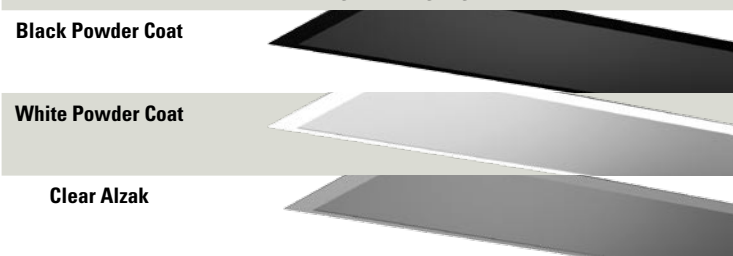
### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

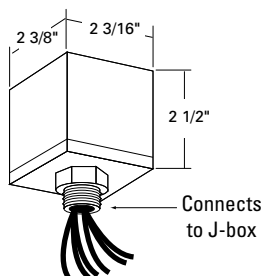
### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

### TRIM INSERT FINISHES



Optional Relay Emergency Module - add "-EM" to the end of the catalog number



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1A70</b>	(1) One Light 12V AR70
<b>CED2A70</b>	(2) Two Light 12V AR70
<b>CED3A70</b>	(3) Three Light 12V AR70

### Wattage

<b>20</b>	20 Watt 12V AR70
<b>50</b>	50 Watt 12V AR70

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Emergency Lighting

<b>EM</b>	Relay Emergency Module
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### Ordering Example

#### **CED3A70-50-CA-120**

3 Light Combo Edge Accent/Downlight for AR70 lamp, 50 watt, Clear Alzak trim, 120V

### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

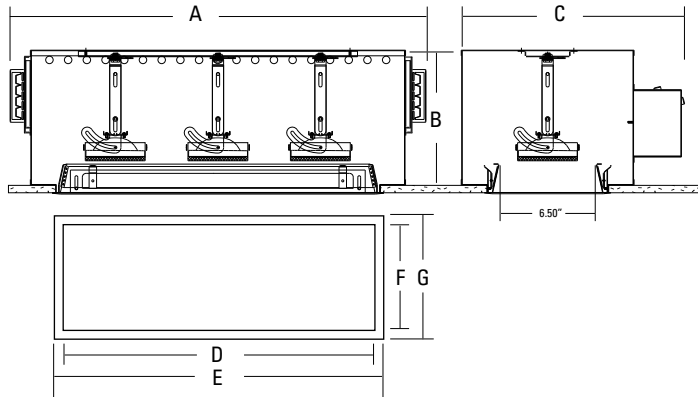
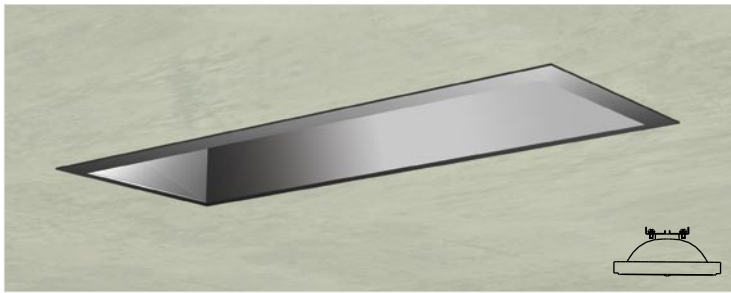
- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module allows the conversion of one of the fixture's lamps to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W. (See page 33 for details.)

COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR70



# COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR111

COMBO EDGE - ACCENT/DOWNLIGHT - 12V AR111



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

### TRIM INSERT FINISHES

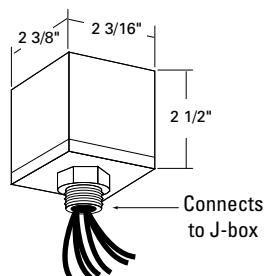
Black Powder Coat

White Powder Coat

Clear Alzak



Optional Relay Emergency Module - add "-EM" to the end of the catalog number



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1A111</b>	(1) One Light 12V AR111
<b>CED2A111</b>	(2) Two Light 12V AR111
<b>CED3A111</b>	(3) Three Light 12V AR111

### Wattage

<b>35</b>	35 Watt 12V AR111
<b>50</b>	50 Watt 12V AR111
<b>75</b>	75 Watt 12V AR111
<b>100</b>	100 Watt 12V AR111

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Emergency Lighting

<b>EM</b>	Relay Emergency Module
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### Ordering Example

#### **CED3A111-35-CA-120**

3 Light Combo Edge Accent/Downlight for AR111 lamp, 35 watt, Clear Alzak trim, 120V

### Options

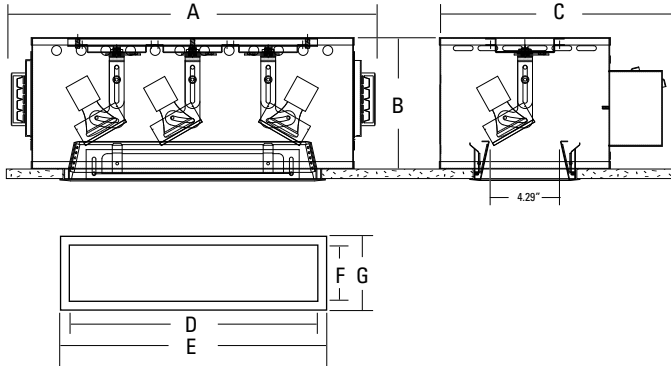
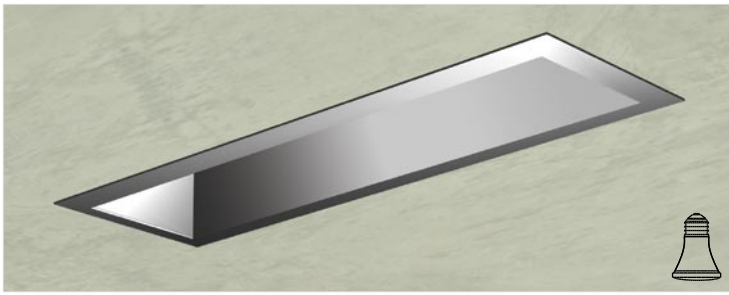
Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module allows the conversion of one of the fixture's lamps to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W. (See page 33 for details.)



# COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR16



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

### TRIM INSERT FINISHES

Black Powder Coat



White Powder Coat



Clear Alzak



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1P16</b>	(1) One Light 120V PAR16
<b>CED2P16</b>	(2) Two Light 120V PAR16
<b>CED3P16</b>	(3) Three Light 120V PAR16

### Wattage

<b>75</b>	75 watts max. 120V PAR16
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### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Ordering Example

#### **CED3P16-75-CA**

3 Light Combo Edge Accent/Downlight for PAR16 lamp, 75 watts max., Clear Alzak trim

### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

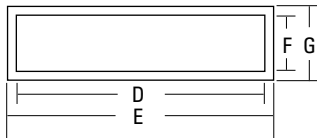
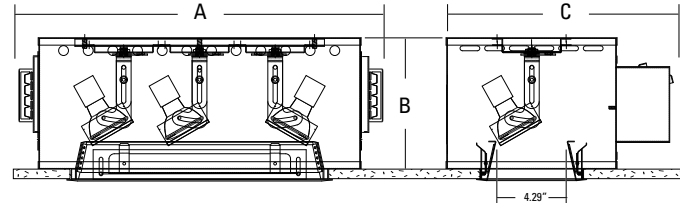
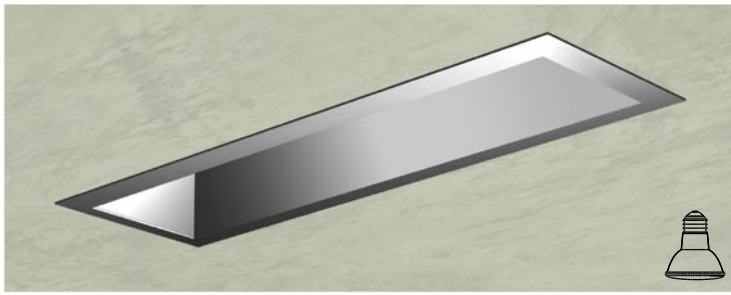
## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



# COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR20

COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR20



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1P20</b>	(1) One Light 120V PAR20
<b>CED2P20</b>	(2) Two Light 120V PAR20
<b>CED3P20</b>	(3) Three Light 120V PAR20

### Wattage

<b>50</b>	50 watts max. 120V PAR20
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### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Ordering Example

#### **CED3P20-50-CA**

3 Light Combo Edge Accent/Downlight for PAR20 lamp, 50 watts max., Clear Alzak trim

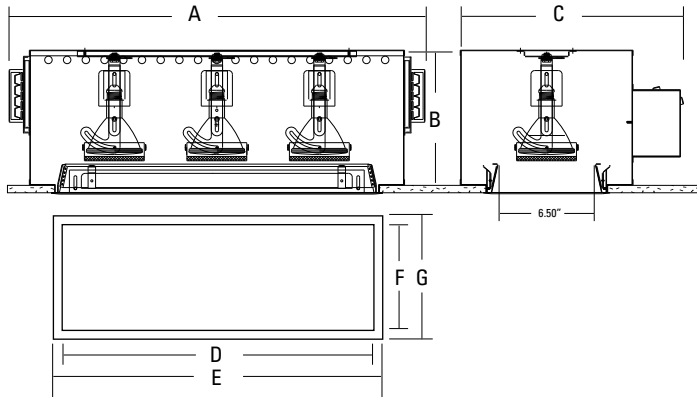
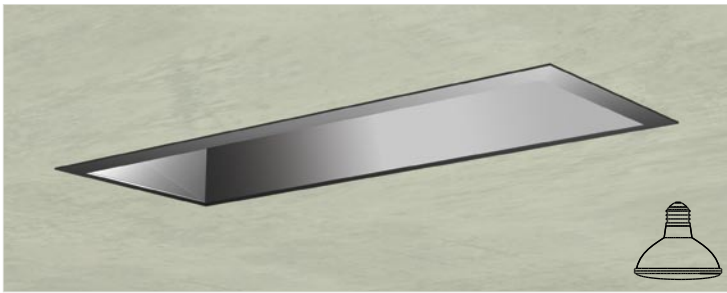
### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

# COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR30



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

### TRIM INSERT FINISHES

Black Powder Coat



White Powder Coat



Clear Alzak



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1P30</b>	(1) One Light 120V PAR30
<b>CED2P30</b>	(2) Two Light 120V PAR30
<b>CED3P30</b>	(3) Three Light 120V PAR30

### Wattage

<b>75</b>	75 watts max. 120V PAR30
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### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Ordering Example

#### **CED3P30-75-CA**

3 Light Combo Edge Accent/Downlight for PAR30 lamp, 75 watts max., Clear Alzak trim

### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

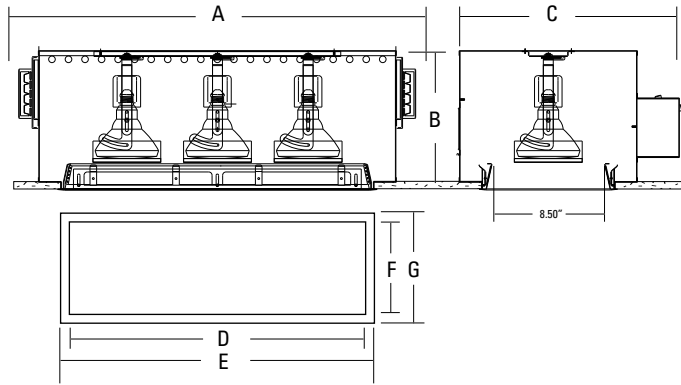
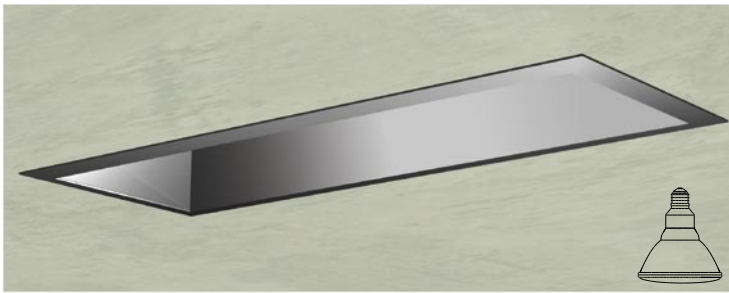
## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



# COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR38

COMBO EDGE - ACCENT/DOWNLIGHT - 120V PAR38



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1P38</b>	(1) One Light 120V PAR38
<b>CED2P38</b>	(2) Two Light 120V PAR38
<b>CED3P38</b>	(3) Three Light 120V PAR38

### Wattage

<b>150</b>	150 watts max. 120V PAR38
------------	---------------------------

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Ordering Example

#### **CED3P38-150-CA**

3 Light Combo Edge Accent/Downlight for PAR38 lamp, 150 watts max., Clear Alzak trim

### Options

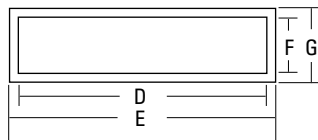
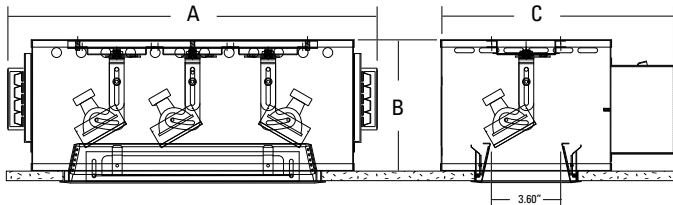
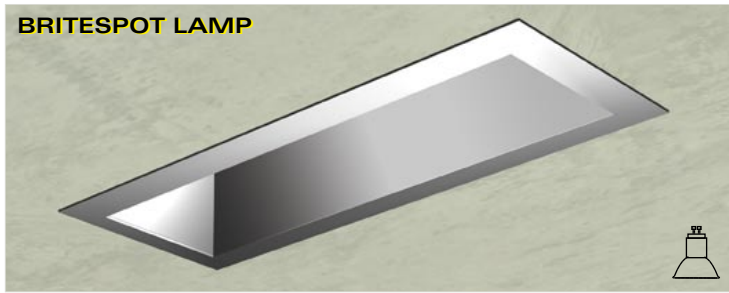
Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



# COMBO EDGE - ACCENT/DOWNLIGHT - ES16 METAL HALIDE



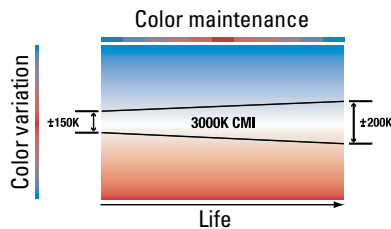
3 light fixture shown above  
Also available in 1 light and 2 light fixtures

## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"



## TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1E16MH</b>	(1) One Light ES16 Metal Halide
<b>CED2E16MH</b>	(2) Two Light ES16 Metal Halide
<b>CED3E16MH</b>	(3) Three Light ES16 Metal Halide

### Wattage

<b>20</b>	20 Watt ES16 Metal Halide
<b>39</b>	39 Watt ES16 Metal Halide

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Ordering Example

#### **CED3E16MH-39-CA-120**

3 Light Combo Edge Accent/Downlight for ES16MH lamp, 39 watt, Clear Alzak trim, 120V

### Options

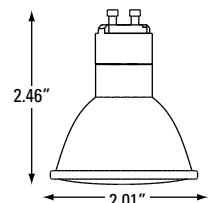
Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

BriteSpot™ ES16 - the first metal halide lamp to bring together high-output, excellent light quality and superb energy-efficiency in one compact, highly distinctive package. The improved discharge arc of the BriteSpot™ ES16 offers excellent color stability and superb color rendering all within the footprint of an MR16.

Lamp Life: 6000 hours  
Correlated Color Temp: 3000K  
Color Rendering Index: 90  
Reflector: Aluminum  
Lens: Stippled  
Ring: Anodized Aluminum

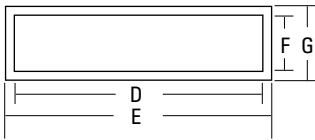
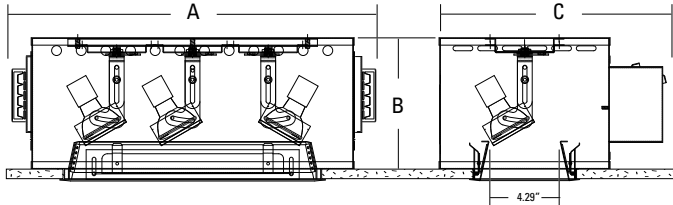
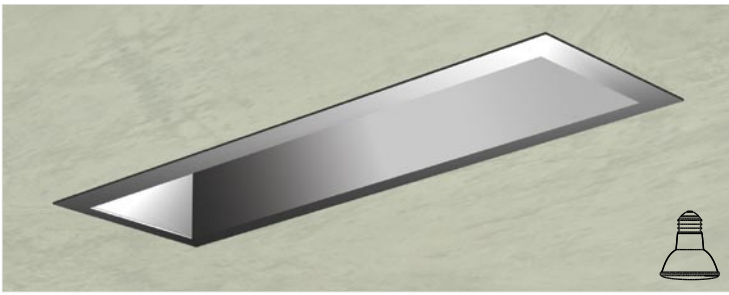


**RSA LIGHTING 13**

COMBO EDGE - ACCENT/DOWNLIGHT - ES16MH

# COMBO EDGE - ACCENT/DOWNLIGHT - PAR20 METAL HALIDE

COMBO EDGE - ACCENT/DOWNLIGHT - PAR20MH



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1P20MH</b>	(1) One Light PAR20 Metal Halide
<b>CED2P20MH</b>	(2) Two Light PAR20 Metal Halide
<b>CED3P20MH</b>	(3) Three Light PAR20 Metal Halide

### Wattage

<b>20</b>	20 Watt PAR20 Metal Halide
<b>39</b>	39 Watt PAR20 Metal Halide

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Ordering Example

#### **CED3P20MH-39-CA-120**

3 Light Combo Edge Accent/Downlight for PAR20MH lamp, 39 watt, Clear Alzak trim, 120V

### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

### TRIM INSERT FINISHES

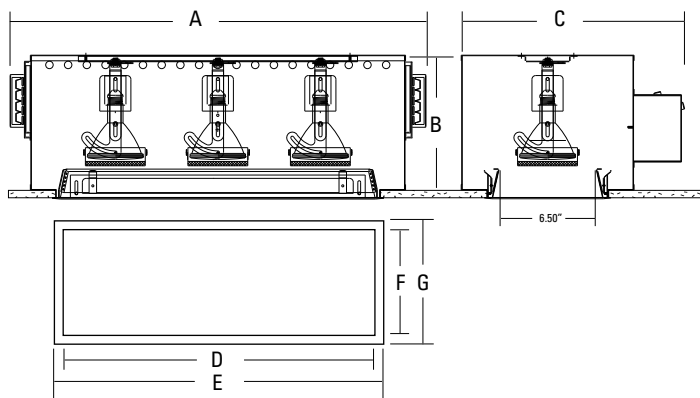
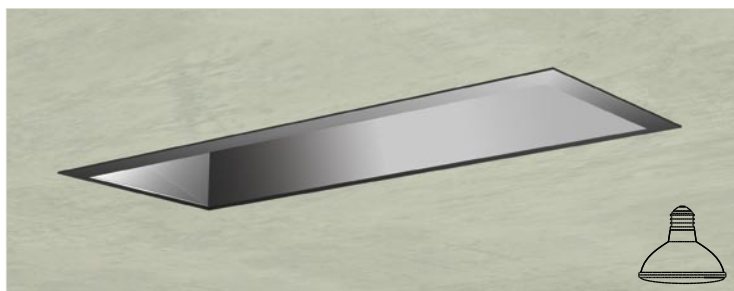
Black Powder Coat

White Powder Coat

Clear Alzak



# COMBO EDGE - ACCENT/DOWNLIGHT - PAR30 METAL HALIDE



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

## TRIM INSERT FINISHES

Black Powder Coat



White Powder Coat



Clear Alzak



## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CE1P30MH</b>	(1) One Light PAR30 Metal Halide
<b>CE2P30MH</b>	(2) Two Light PAR30 Metal Halide
<b>CE3P30MH</b>	(3) Three Light PAR30 Metal Halide

### Wattage

<b>39</b>	39 watt PAR30 Metal Halide
<b>70</b>	70 watt PAR30 Metal Halide

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Ordering Example

#### **CE3P30MH-70-CA-120**

3 Light Combo Edge Accent/Downlight for PAR30MH lamp, 70 watt lamps., Clear Alzak trim, 120V

### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

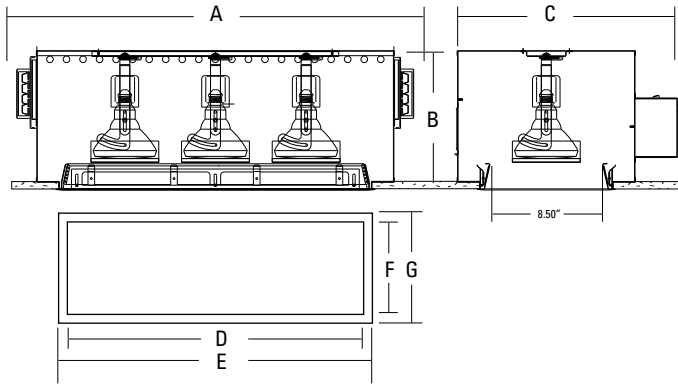
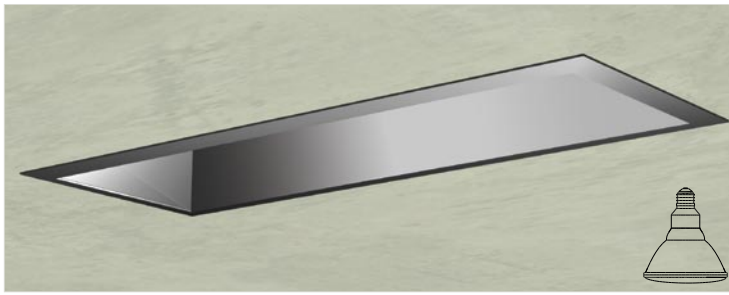
## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



# COMBO EDGE - ACCENT/DOWNLIGHT - PAR38 METAL HALIDE

COMBO EDGE - ACCENT/DOWNLIGHT - PAR38MH



3 light fixture shown above  
Also available in 1 light and 2 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

## COMBO EDGE - ACCENT/DOWNLIGHT

### Fixture Type

<b>CED1P38MH</b>	(1) One Light PAR38 Metal Halide
<b>CED2P38MH</b>	(2) Two Light PAR38 Metal Halide
<b>CED3P38MH</b>	(3) Three Light PAR38 Metal Halide

### Wattage

<b>70</b>	70 watt PAR38 Metal Halide
<b>100</b>	100 watt PAR38 Metal Halide

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Ordering Example

#### **CED3P38MH-100-CA-120**

3 Light Combo Edge Accent/Downlight for PAR38MH lamp, 100 watt lamps, Clear Alzak trim. 120V

### Options

Optical accessories include: Baffles, Snoots, Louvers and Lenses. See page 33 for details.

## Features

- Available in 1, 2 or 3 light fixtures
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

### TRIM INSERT FINISHES

Black Powder Coat

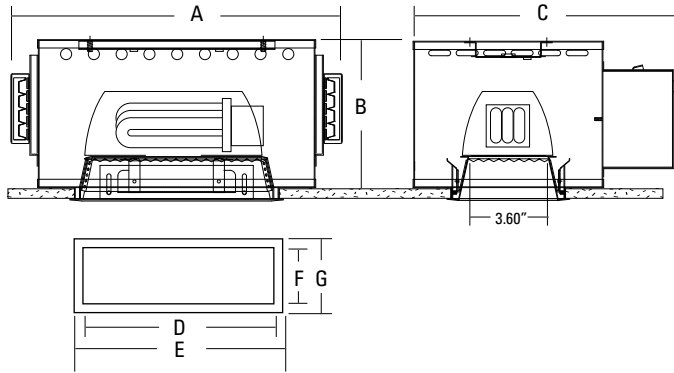
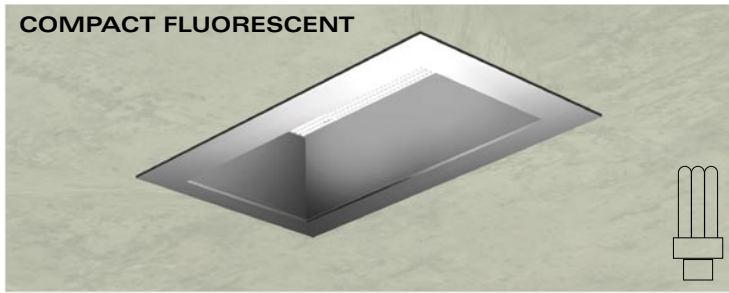
White Powder Coat

Clear Alzak





# COMBO EDGE - DOWNLIGHT - TRIPLE TUBE



1 light fixture shown above  
Also available in 2 light fixtures

## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
2 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	8.52"	9.62"	4.50"	5.60"
2 Light	12.37"	13.47"	4.50"	5.60"

## TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - DOWNLIGHT

### Fixture Type

<b>CED1TTB</b>	(1) One Light Triple Tube Fluorescent
<b>CED2TTB</b>	(2) Two Light Triple Tube Fluorescent

### Wattage

<b>26</b>	26 Watt Triple Tube Fluorescent
<b>32</b>	32 Watt Triple Tube Fluorescent
<b>42</b>	42 Watt Triple Tube Fluorescent

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Ordering Example

#### **CED1TTB-32-CA-120**

1 Light Combo Edge Downlight for Triple Tube Compact Fluorescent lamp, 32 watt, Clear Alzak trim, 120V


## Features

- Available in 1 or 2 light fixtures
- Compact fluorescent triple tube lamp source
- Includes internal reflector and prismatic spread lens for even illumination
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations





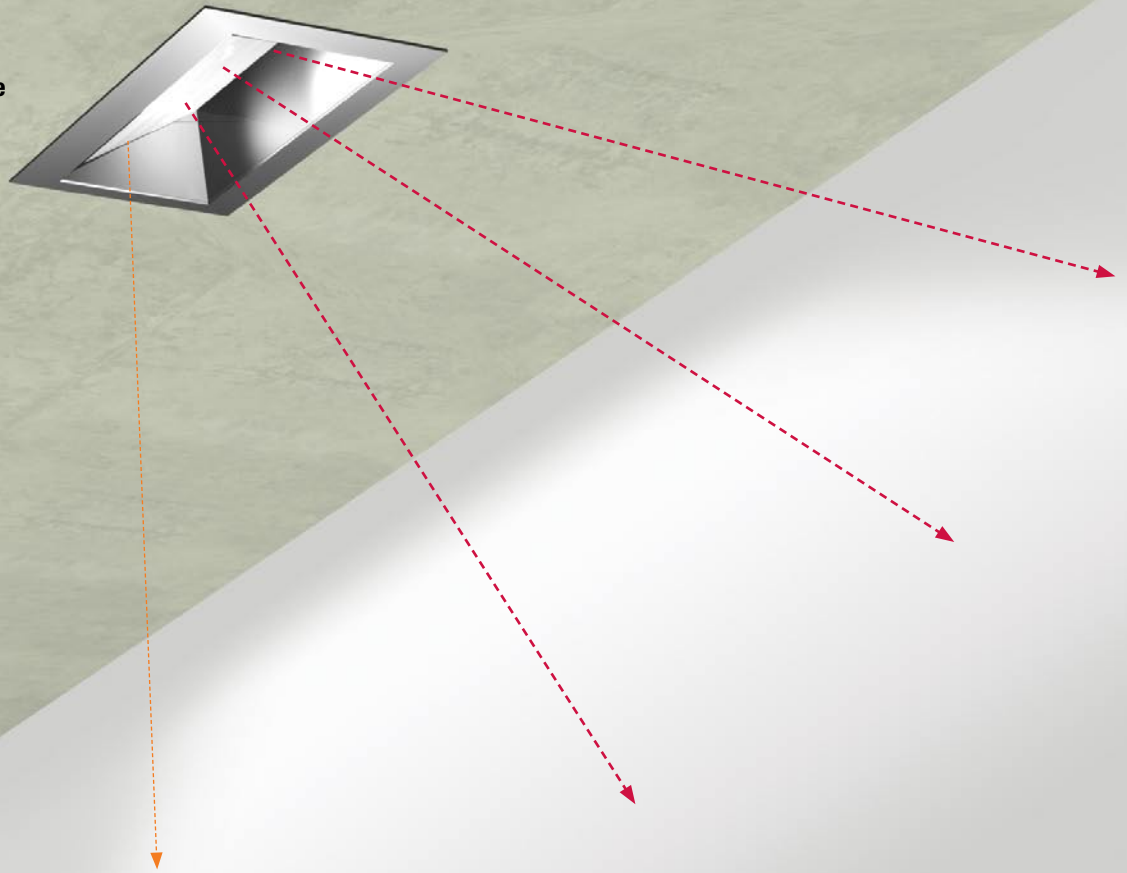




**COMBO EDGE** provides a wealth of lighting design possibilities. In this application, PAR38 Metal Halide accent / downlights are used for general illumination and task lighting. ES16 Britespot Metal Halide wall wash fixtures provide a smooth and even light across the back and side walls. All of this is achieved without harsh glare from the fixtures themselves due to the deep regress of the trim insert.

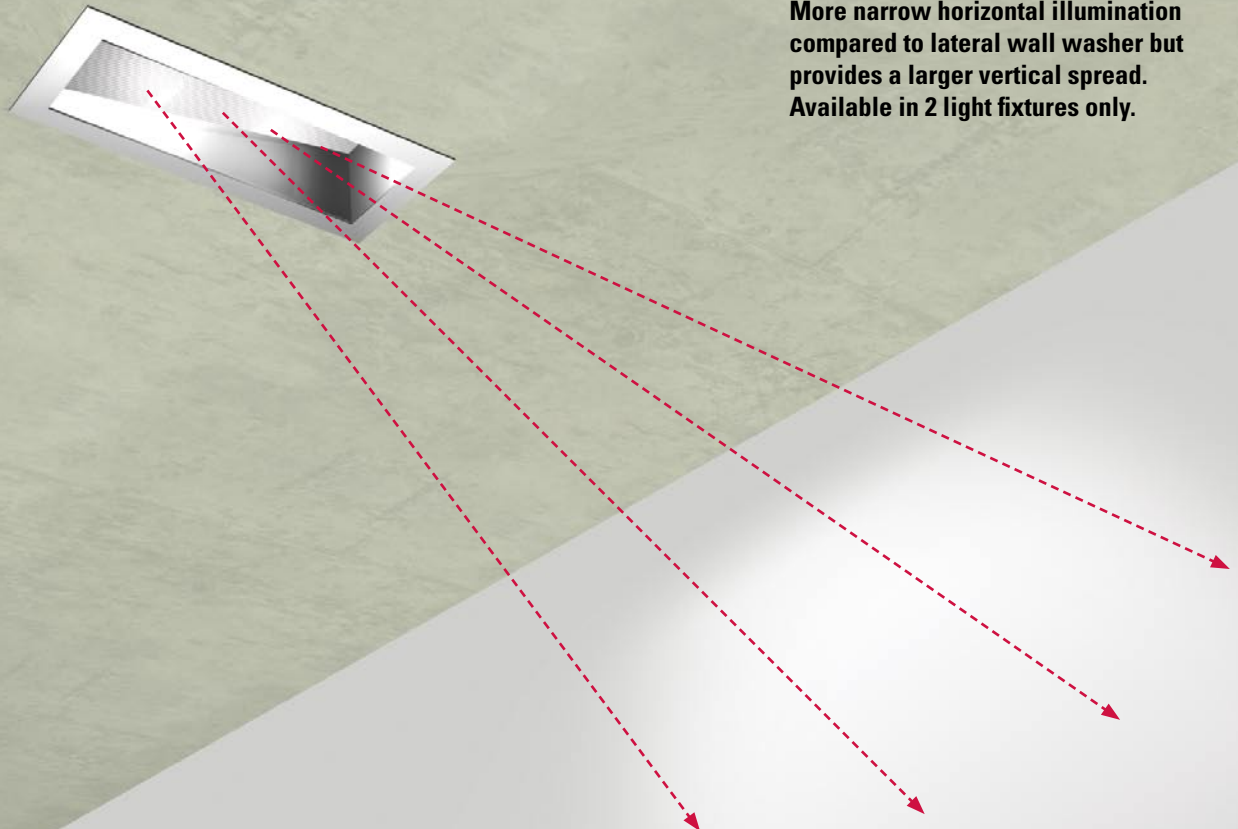
## Lateral Wall Washer

Spreads light over a wider area with even illumination. Available in 1, 2 or 3 light fixtures.

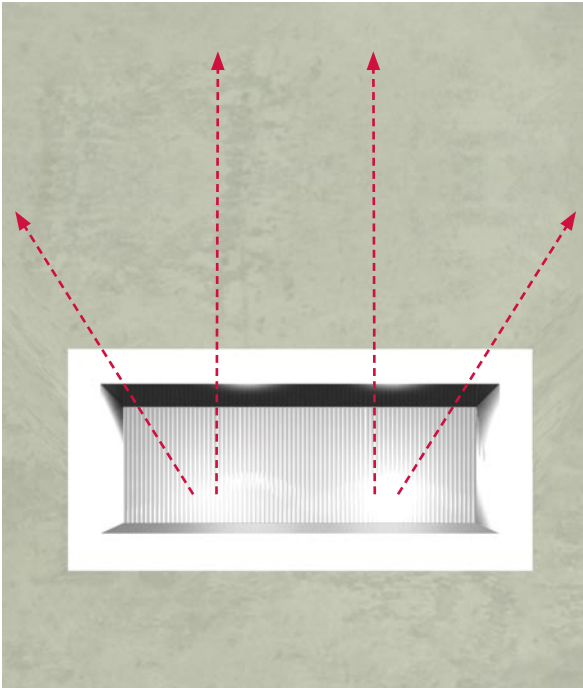


## Transverse Wall Washer

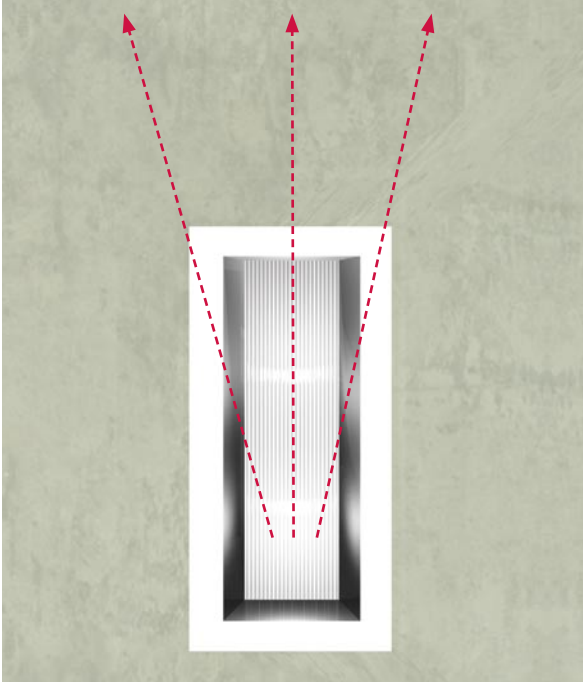
More narrow horizontal illumination compared to lateral wall washer but provides a larger vertical spread. Available in 2 light fixtures only.







**Lateral Configuration**



**Transverse Configuration**

**Wall Washer Fixture Lamp Types**

**MR16 12 Volt Halogen** page 22

**AR70 12 Volt Halogen** page 23

**PAR16 120 Volt Incandescent** page 24

**PAR20 120 Volt Incandescent** page 25

**PAR30 120 Volt Incandescent** page 26

**PAR38 120 Volt Incandescent** page 27

**ES16 BriteSpot Metal Halide** page 28

**PAR20 Metal Halide** page 29

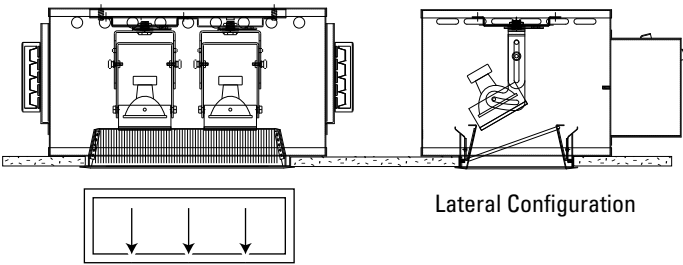
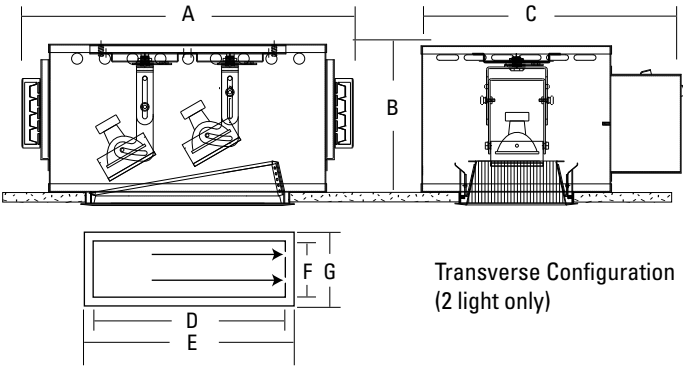
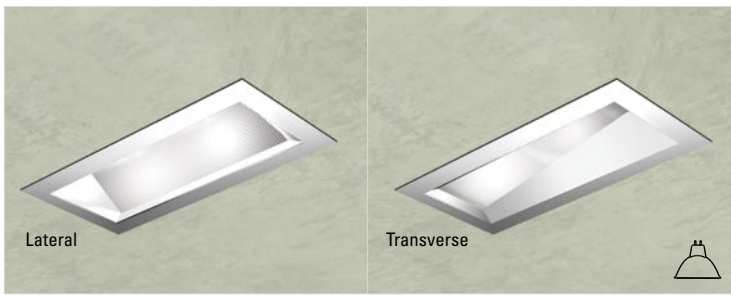
**PAR30 Metal Halide** page 30

**PAR38 Metal Halide** page 31

**Triple Tube Fluorescent** page 32

# COMBO EDGE - WALL WASHER - 12V MR16

COMBO EDGE - WALL WASHER - 12V MR16



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1M16** (1) One Light 12V MR16 - Lateral
- CEL2M16** (2) Two Light 12V MR16 - Lateral
- CEL3M16** (3) Three Light 12V MR16 - Lateral

- CET2M16** (2) Two Light 12V MR16 - Transverse

### Wattage

- 20** 20 Watt 12V MR16
- 37** 37 Watt 12V MR16
- 42** 42 Watt 12V MR16
- 50** 50 Watt 12V MR16
- 71** 71 Watt 12V MR16

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Voltage

- 120** 120V (Standard)
- 277** 277V

### Emergency Lighting

- EM** Relay Emergency Module (see page 33)

### Ordering Example

#### **CET2M16-37-CA-120**

2 Light Combo Edge Wall Wash Transverse Configuration for MR16 lamp, 37 watt, Clear Alzak trim, 120V

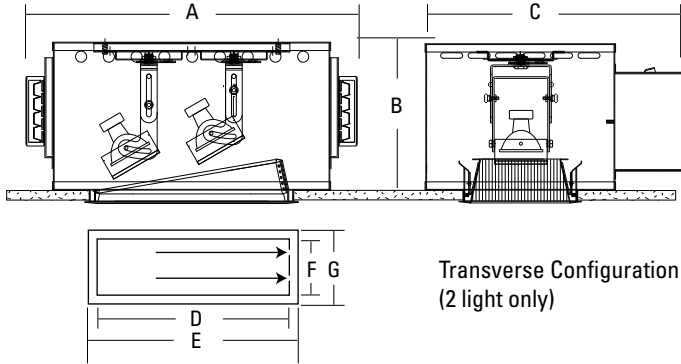
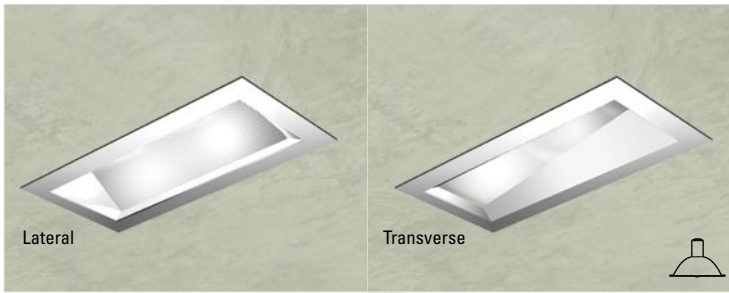
Includes linear spread lens.

## Features

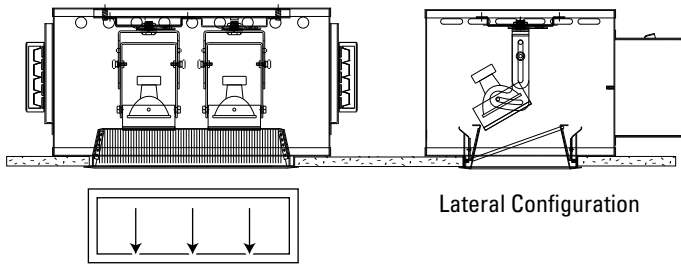
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module (see page 33 for details)

# COMBO EDGE - WALL WASHER - 12V AR70 LAMP

COMBO EDGE - WALL WASHER - 12V AR70



Transverse Configuration  
(2 light only)



Lateral Configuration

2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1A70** (1) One Light 12V AR70 - Lateral
- CEL2A70** (2) Two Light 12V AR70 - Lateral
- CEL3A70** (3) Three Light 12V AR70 - Lateral

- CET2A70** (2) Two Light 12V AR70 - Transverse

### Wattage

- 20** 20 Watt 12V AR70
- 50** 50 Watt 12V AR70

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Voltage

- 120** 120V (Standard)
- 277** 277V

### Emergency Lighting

- EM** Relay Emergency Module (see page 33)

### Ordering Example

#### CEL2A70-20-CA-120

2 Light Combo Edge Wall Wash Lateral Configuration for AR70 lamp, 20 watt, Clear Alzak trim, 120V

Includes linear spread lens.

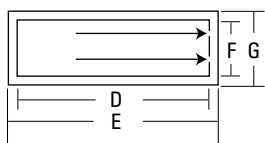
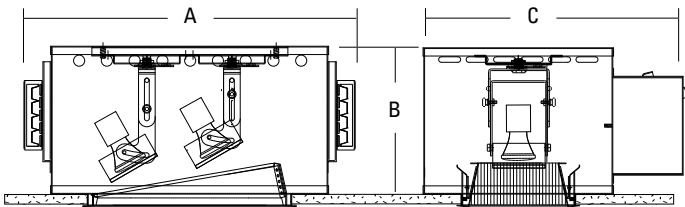
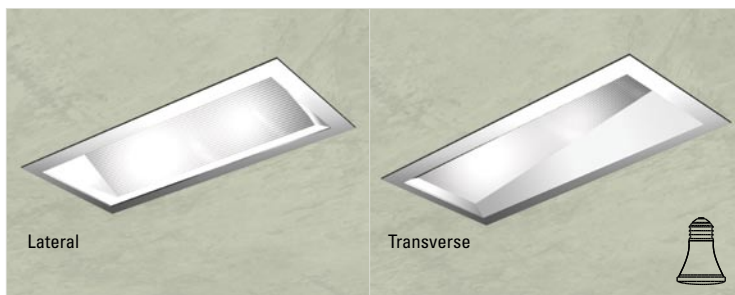
## Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic transformers
- Electrical J-Box and transformers easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations
- Optional Relay Emergency Module (see page 33 for details)

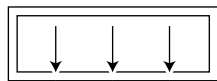
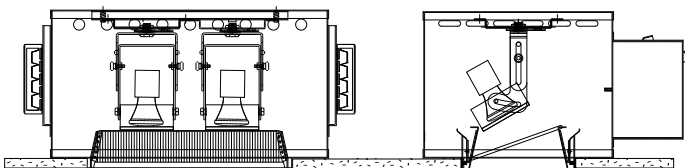


# COMBO EDGE - WALL WASHER - 120V PAR16

COMBO EDGE - WALL WASHER - 120V PAR16



Transverse Configuration  
(2 light only)



Lateral Configuration

2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1P16** (1) One Light 120V PAR16 - Lateral
- CEL2P16** (2) Two Light 120V PAR16 - Lateral
- CEL3P16** (3) Three Light 120V PAR16 - Lateral

- CET2P16** (2) Two Light 120V PAR16 - Transverse

### Wattage

75 75 watts max 120V PAR16

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Ordering Example

#### CET2P16-75-CA

2 Light Combo Edge Wall Wash Transverse Configuration for PAR16 lamp, 75 watts max., Clear Alzak trim

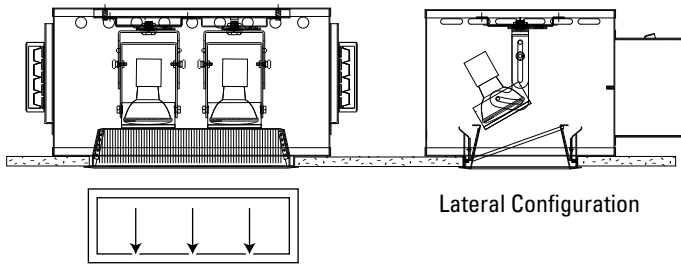
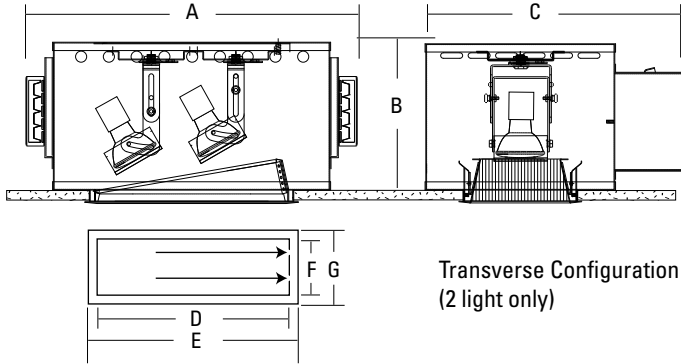
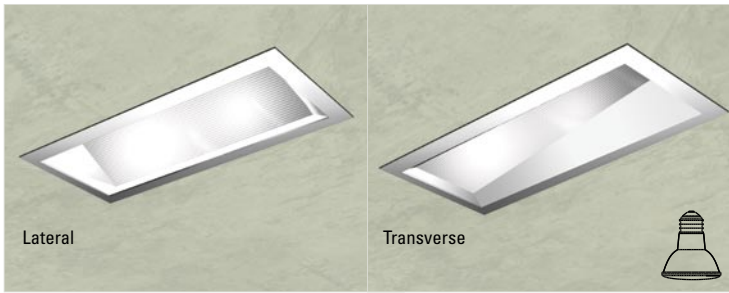
## Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



# COMBO EDGE - WALL WASHER - 120V PAR20

COMBO EDGE - WALL WASHER - 120V PAR20



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1P20** (1) One Light 120V PAR20 - Lateral
- CEL2P20** (2) Two Light 120V PAR20 - Lateral
- CEL3P20** (3) Three Light 120V PAR20 - Lateral

- CET2P20** (2) Two Light 120V PAR20 - Transverse

### Wattage

**50** 50 watts max 120V PAR20

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Ordering Example

#### **CET2P20-50-CA**

2 Light Combo Edge Wall Wash Transverse Configuration for PAR20 lamp, 50 watts max., Clear Alzak trim

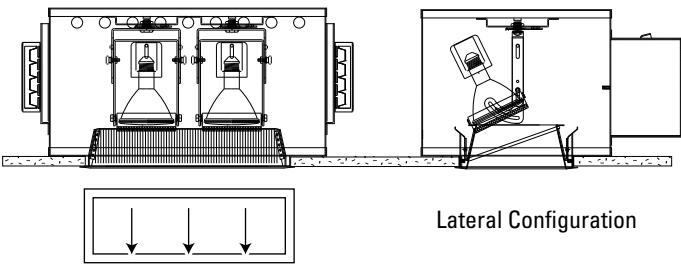
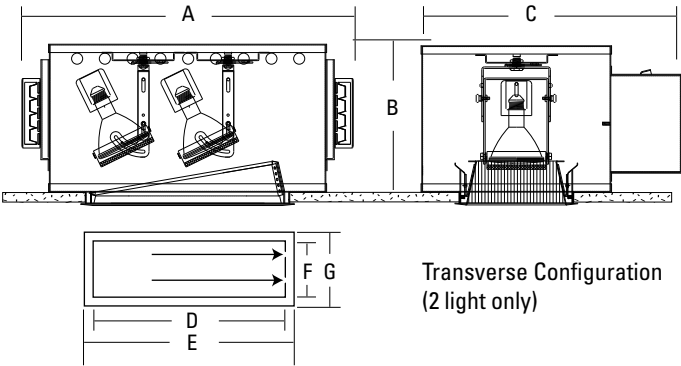
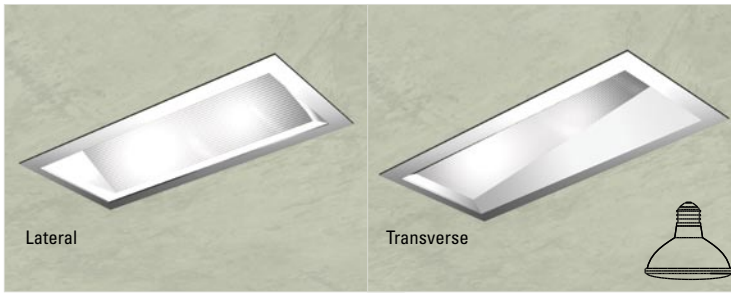
## Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



# COMBO EDGE - WALL WASHER - 120V PAR30

COMBO EDGE - WALL WASHER - 120V PAR30



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

<b>CEL1P30</b>	(1) One Light 120V PAR30 - Lateral
<b>CEL2P30</b>	(2) Two Light 120V PAR30 - Lateral
<b>CEL3P30</b>	(3) Three Light 120V PAR30 - Lateral

<b>CET2P30</b>	(2) Two Light 120V PAR30 - Transverse
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### Wattage

<b>75</b>	75 watts max 120V PAR30
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### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Ordering Example

#### **CET2P30-75-CA**

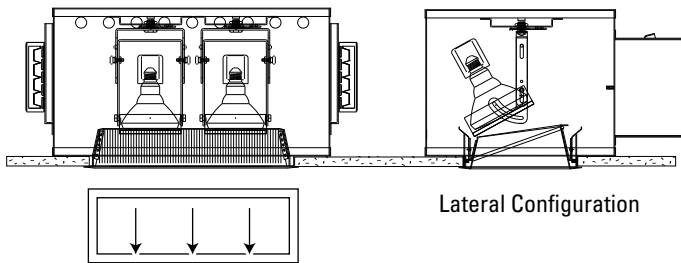
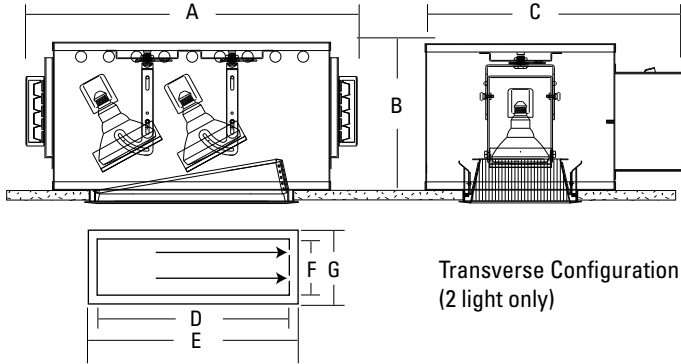
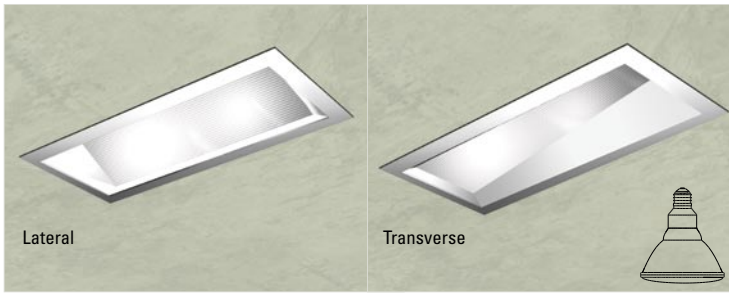
2 Light Combo Edge Wall Wash Transverse Configuration for PAR30 lamp, 75 watts max., Clear Alzak trim

## Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

# COMBO EDGE - WALL WASHER - 120V PAR38

COMBO EDGE - WALL WASHER - 120V PAR38



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1P38** (1) One Light 120V PAR38 - Lateral
- CEL2P38** (2) Two Light 120V PAR38 - Lateral
- CEL3P38** (3) Three Light 120V PAR38 - Lateral

- CET2P38** (2) Two Light 120V PAR38 - Transverse

### Wattage

**150** 150 watts max 120V PAR38

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Ordering Example

#### **CET2P38-150-CA**

2 Light Combo Edge Wall Wash Transverse Configuration for PAR38 lamp, 150 watts max., Clear Alzak trim

## Features

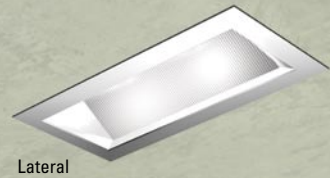
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured for line voltage connection
- Electrical J-Box easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations



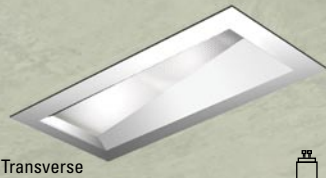
# COMBO EDGE - WALL WASHER - ES16 METAL HALIDE

COMBO EDGE - WALL WASHER - ES16MH

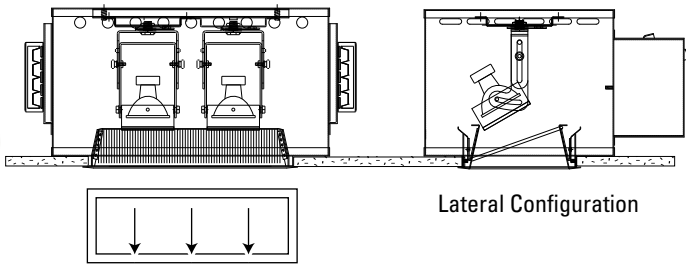
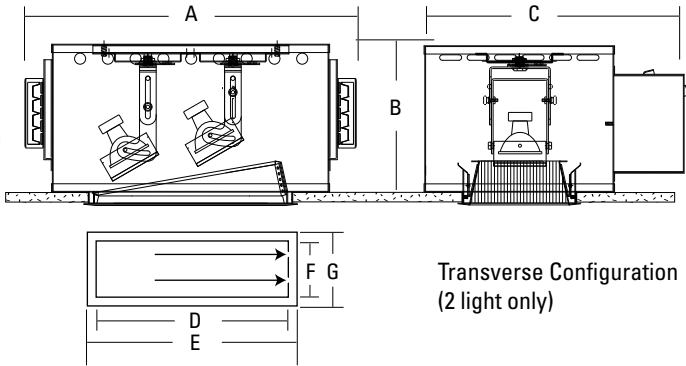
## BRITESPOT LAMP



Lateral



Transverse



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

### HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	11.66"	6.66"	11.84"	5.27" x 5.30"
2 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
3 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

### TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	4.50"	5.60"	4.50"	5.60"
2 Light	8.52"	9.62"	4.50"	5.60"
3 Light	12.37"	13.47"	4.50"	5.60"

### TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1E16MH** (1) One Light ES16 Metal Halide - Lateral
- CEL2E16MH** (2) Two Light ES16 Metal Halide - Lateral
- CEL3E16MH** (3) Three Light ES16 Metal Halide - Lateral

- CET2E16MH** (2) Two Light ES16 Metal Halide - Transverse

### Wattage

- 20** 20 Watt ES16 Metal Halide
- 39** 39 Watt ES16 Metal Halide

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Voltage

- 120** 120V (Standard)
- 277** 277V

### Ordering Example

#### CEL2E16MH-39-CA-120

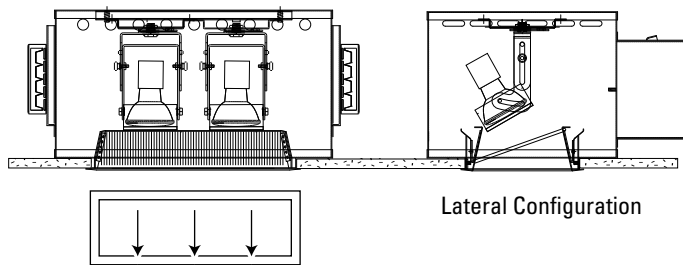
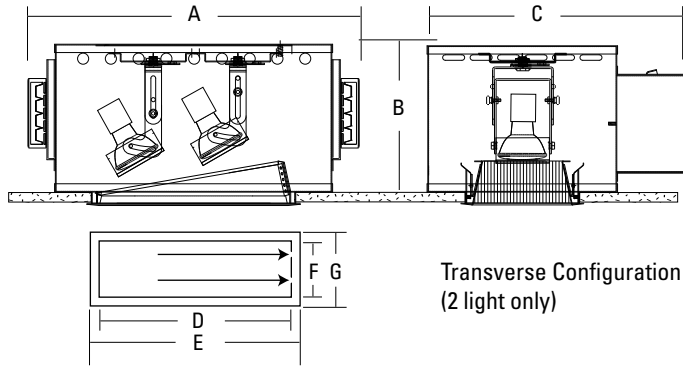
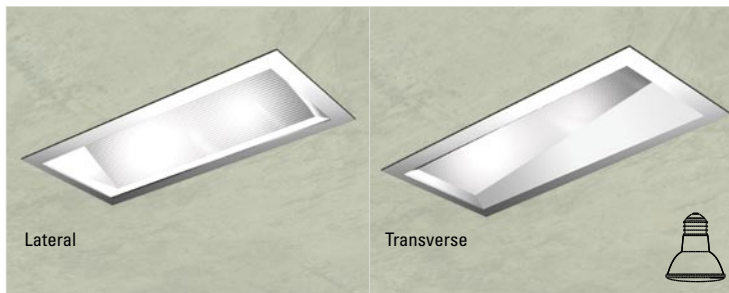
2 Light Combo Edge Wall Wash Lateral Configuration for ES16MH lamp, 39 watt, Clear Alzak trim, 120V

## SEE PAGE 13 FOR IMPORTANT LAMP INFORMATION

## Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

# COMBO EDGE - WALL WASHER - PAR20 METAL HALIDE



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	12.51"	8.25"	12.44"	6.10" x 5.97"
2 Light	19.36"	8.25"	12.44"	12.97" x 5.97"
3 Light	26.21"	8.25"	12.44"	19.82" x 5.97"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	5.35"	6.45"	5.16"	6.26"
2 Light	12.20"	13.30"	5.16"	6.26"
3 Light	19.05"	20.15"	5.16"	6.26"

## TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

**CEL1P20MH** (1) One Light PAR20 Metal Halide - Lateral  
**CEL2P20MH** (2) Two Light PAR20 Metal Halide - Lateral  
**CEL3P20MH** (3) Three Light PAR20 Metal Halide - Lateral

**CET2P20MH** (2) Two Light PAR20 Metal Halide - Transverse

### Wattage

**20** 20 Watt PAR20 Metal Halide  
**39** 39 Watt PAR20 Metal Halide

### Trim Finish

**BK** Black Alzak  
**WH** White Powder Coat  
**CA** Clear Alzak  
**PT** Custom Color (Specify)

### Voltage

**120** 120V (Standard)  
**277** 277V

### Ordering Example

#### **CET2P20MH-39-CA-120**

2 Light Combo Edge Wall Wash Transverse Configuration for PAR20MH lamp, 39 watt, Clear Alzak trim, 120V

## Features

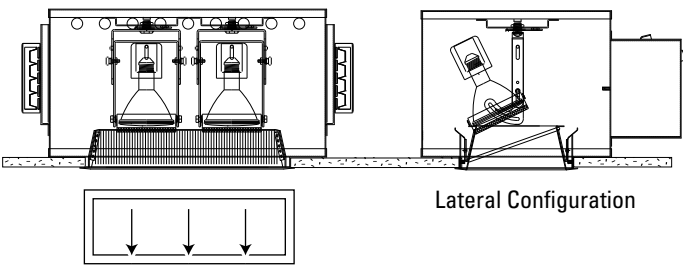
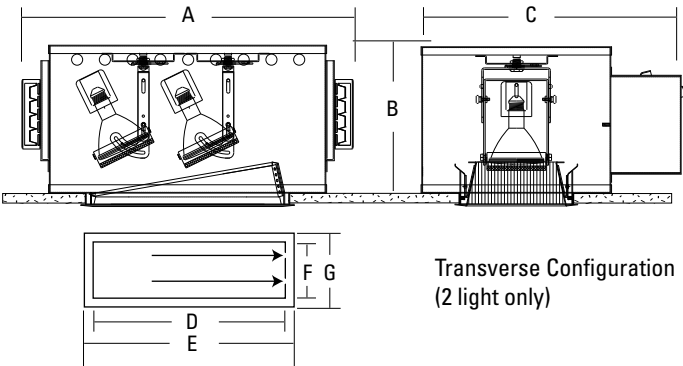
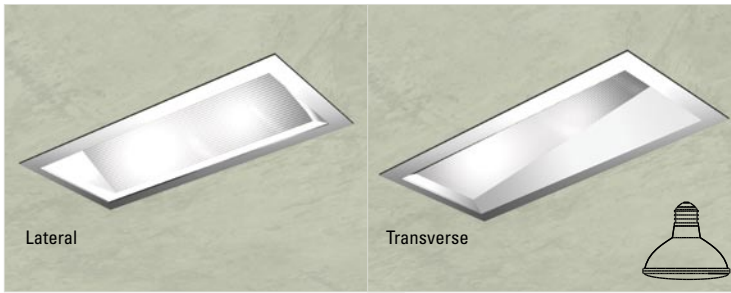
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations





# COMBO EDGE - WALL WASHER - PAR30 METAL HALIDE

COMBO EDGE - WALL WASHER - PAR30MH



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	14.36"	9.00"	14.72"	8.074" x 8.18"
2 Light	21.21"	9.00"	14.72"	14.92" x 8.18"
3 Light	28.06"	9.00"	14.72"	21.72" x 8.18"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	7.37"	8.47"	7.37"	8.47"
2 Light	14.22"	15.32"	7.37"	8.47"
3 Light	21.07"	22.17"	7.37"	8.47"

## TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1P30MH** (1) One Light PAR30 Metal Halide - Lateral
- CEL2P30MH** (2) Two Light PAR30 Metal Halide - Lateral
- CEL3P30MH** (3) Three Light PAR30 Metal Halide - Lateral

- CET2P30MH** (2) Two Light PAR30 Metal Halide - Transverse

### Wattage

- 39** 39 Watt PAR30 Metal Halide
- 70** 70 Watt PAR30 Metal Halide

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Voltage

- 120** 120V (Standard)
- 277** 277V

### Ordering Example

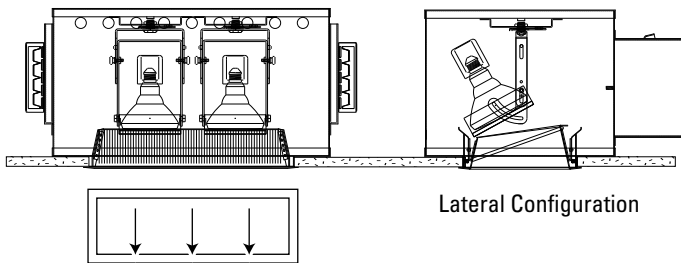
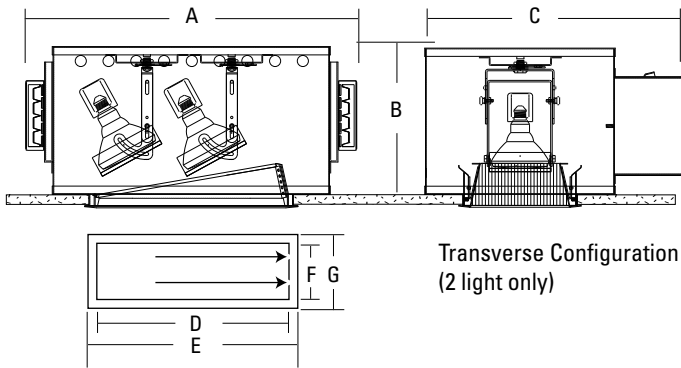
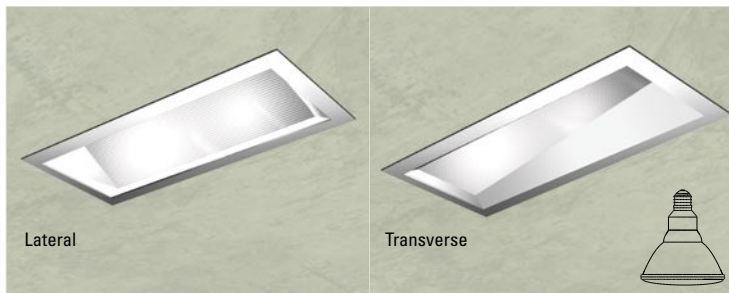
#### CEL2P30MH-39-CA-120

2 Light Combo Edge Wall Wash Lateral Configuration for PAR30MH lamp, 39 watt, Clear Alzak trim, 120V

## Features

- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

# COMBO EDGE - WALL WASHER - PAR38 METAL HALIDE



2 light fixture shown above  
Also available in 1 light and 3 light fixtures

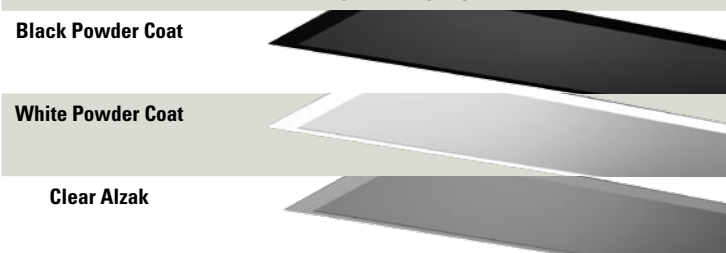
## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	16.54"	10.86"	16.72"	10.18" x 10.18"
2 Light	25.29"	10.86"	16.72"	18.93" x 10.18"
3 Light	34.04"	10.86"	16.72"	27.68" x 10.18"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	9.48"	10.58"	9.37"	10.47"
2 Light	18.23"	19.33"	9.37"	10.47"
3 Light	26.98"	28.08"	9.37"	10.47"

## TRIM INSERT FINISHES



## COMBO EDGE - WALL WASHER

### Fixture Type

- CEL1P38MH** (1) One Light PAR38 Metal Halide - Lateral
- CEL2P38MH** (2) Two Light PAR38 Metal Halide - Lateral
- CEL3P38MH** (3) Three Light PAR38 Metal Halide - Lateral

- CET2P38MH** (2) Two Light PAR38 Metal Halide - Transverse

### Wattage

- 70** 70 Watt PAR38 Metal Halide
- 100** 100 Watt PAR38 Metal Halide

### Trim Finish

- BK** Black Alzak
- WH** White Powder Coat
- CA** Clear Alzak
- PT** Custom Color (Specify)

### Voltage

- 120** 120V (Standard)
- 277** 277V

### Ordering Example

#### **CET2P38MH-70-CA-120**

2 Light Combo Edge Wall Wash Transverse Configuration for PAR38MH lamp, 70 watt, Clear Alzak trim, 120V

## Features

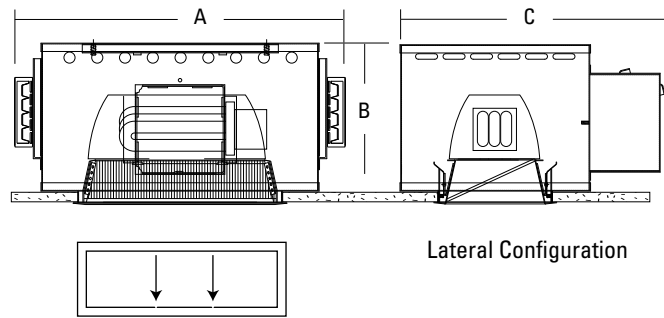
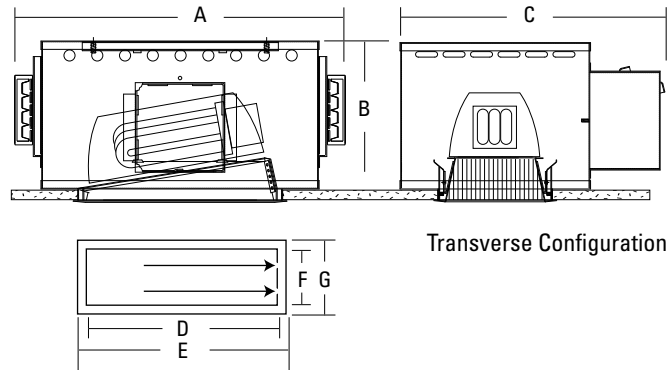
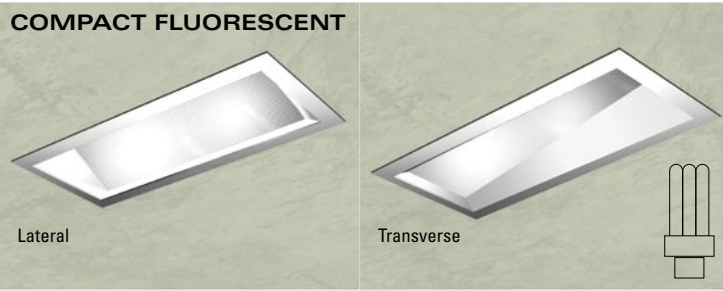
- Available in 1, 2 or 3 light fixtures (Transverse 2 light only)
- Includes linear spread lens
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Independently adjustable locking lamp holders with 368° x 45° adjustability
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Configured with integral electronic ballasts
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Includes butterfly brackets for black iron installations

COMBO EDGE - WALL WASHER - PAR38MH



# COMBO EDGE - WALL WASHER - TRIPLE TUBE FLUORESCENT

COMBO EDGE - WALL WASHER - TRIPLE TUBE



1 light fixture shown above  
Also available in 2 light fixtures

## HOUSING DIMENSIONS

FIXTURE TYPE	A	B	C	CEILING CUT-OUT
1 Light	15.51"	6.66"	11.84"	9.30" x 5.30"
2 Light	19.36"	6.66"	11.84"	13.15" x 5.30"

## TRIM DIMENSIONS

FIXTURE TYPE	D	E	F	G
1 Light	8.52"	9.62"	4.50"	5.60"
2 Light	12.37"	13.47"	4.50"	5.60"

## TRIM INSERT FINISHES

Black Powder Coat

White Powder Coat

Clear Alzak

## COMBO EDGE - WALL WASHER

### Fixture Type

<b>CEL1TTB</b>	(1) One Light Triple Tube Fluorescent - Lateral
<b>CET1TTB</b>	(1) One Light Triple Tube Fluorescent - Transverse
<b>CEL2TTB</b>	(2) Two Light Triple Tube Fluorescent - Lateral
<b>CET2TTB</b>	(2) Two Light Triple Tube Fluorescent - Transverse

### Wattage

<b>26</b>	26 Watt Triple Tube Fluorescent
<b>32</b>	32 Watt Triple Tube Fluorescent
<b>42</b>	42 Watt Triple Tube Fluorescent

### Trim Finish

<b>BK</b>	Black Alzak
<b>WH</b>	White Powder Coat
<b>CA</b>	Clear Alzak
<b>PT</b>	Custom Color (Specify)

### Voltage

<b>120</b>	120V (Standard)
<b>277</b>	277V

### Ordering Example













#### **CEL1TTB-32-CA-120**

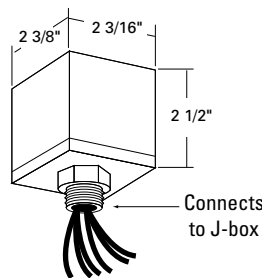
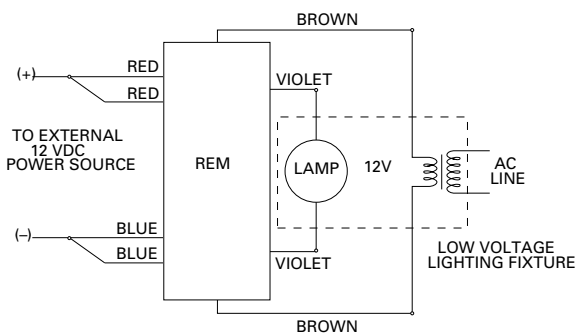
1 Light Combo Edge Wall Washer Lateral Configuration for Triple Tube Compact Fluorescent lamp, 32 watt, Clear Alzak trim, 120V

## Features

- Available in 1 or 2 light fixtures
- Compact fluorescent triple tube lamp source
- Includes internal reflector and linear spread lens for even illumination
- Lateral or Transverse configurations for added versatility
- Splayed trim inserts have a 1/2" flange
- Architectural deep regress rectangular trim with 77° tapered aperture provides excellent cut-off
- Adjustable Plaster Frame can accommodate 1/2" to 1-3/8" ceiling thickness
- Electrical J-Box and ballasts easily accessed from below the ceiling
- Electronic ballast
- Includes butterfly brackets for black iron installations

# OPTICAL ACCESSORY CROSS-REFERENCE TABLE

LAMP TYPE ↓ ACCESSORY TYPE	MR16 / PAR16 / ES16MH	AR70 / PAR20 / PAR20MH	AR111	PAR30 / PAR30MH	PAR38 / PAR38MH
 Optivex™ UV Filter	<b>LN25</b>	<b>LN45</b>	<b>LN85</b>	<b>LN35</b>	<b>LN65</b>
 Red Color Filter	<b>LN26</b>	<b>LN46</b>	<b>LN86</b>	<b>LN36</b>	<b>LN66</b>
 Blue Color Filter	<b>LN27</b>	<b>LN47</b>	<b>LN87</b>	<b>LN37</b>	<b>LN67</b>
 Amber Color Filter	<b>LN29</b>	<b>LN49</b>	<b>LN89</b>	<b>LN39</b>	<b>LN69</b>
 Cosmetic Peach 2800K Filter	<b>CP16</b>	<b>CP20</b>	<b>CP111</b>	<b>CP30</b>	<b>CP38</b>
 Milk White Lens	<b>LN24</b>	<b>LN44</b>	<b>LN84</b>	<b>LN34</b>	<b>LN64</b>
 Diffusion Spread Lens	<b>LN21</b>	<b>LN41</b>	<b>LN81</b>	<b>LN31</b>	<b>LN61</b>
 Linear Spread Lens	<b>LN23</b>	<b>LN43</b>	<b>LN83</b>	<b>LN33</b>	<b>LN63</b>
 Prismatic Spread Lens	<b>LN22</b>	<b>LN42</b>	<b>LN82</b>	<b>LN32</b>	<b>LN62</b>
 Hex Cell Louver	<b>LN20</b>	<b>LN40</b>	<b>LN80</b>	<b>LN30</b>	<b>LN60</b>
 Snoot	<b>SN16WH - White</b> <b>SN16BK - Black</b> <b>SN16AL - Aluminum</b>	<b>SN20WH - White</b> <b>SN20BK - Black</b> <b>SN20AL - Aluminum</b>	<b>N/A</b>	<b>SN30WH - White</b> <b>SN30BK - Black</b> <b>SN30AL - Aluminum</b>	<b>SN38WH - White</b> <b>SN38BK - Black</b> <b>SN38AL - Aluminum</b>
 Cross Baffle	<b>CB16WH - White</b> <b>CB16BK - Black</b> <b>CB16AL - Aluminum</b>	<b>CB20WH - White</b> <b>CB20BK - Black</b> <b>CB20AL - Aluminum</b>	<b>CB111WH - White</b> <b>CB111BK - Black</b> <b>CB111AL - Aluminum</b>	<b>CB30WH - White</b> <b>CB30BK - Black</b> <b>CB30AL - Aluminum</b>	<b>CB38WH - White</b> <b>CB38BK - Black</b> <b>CB38AL - Aluminum</b>



## “EM” TECHNICAL DATA

The optional Relay Emergency Module (EM) allows the conversion of one low voltage lamp in a fixture to function as a remote emergency unit when supplied by a 12V DC emergency power source. Module does not contain batteries. Will operate with 85W lamp maximum. Wattage consumed in emergency mode is lamp wattage + 0.9W.

# 12V MR16 LAMP PERFORMANCE DATA

## Lamp Performance Data

D = Distance to the horizontal or vertical surface.

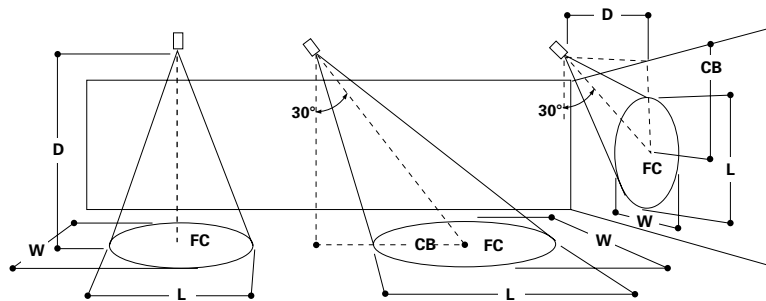
FC = Initial footcandles at the center of the beam.

L = Length of the beam where candlepower is reduced to 50% of center beam candlepower.

W = Width of the beam where candlepower is reduced to 50% of center beam candlepower.

CB = Distance to the center of the beam.

Lamp data given is typical and is based on bare lamp performance. Contact lamp manufacturers for availability and specific performance. Distance, length and width given in decimal feet.







		0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					45° Aiming Angle Vertical Footcandles					
		D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB	
<b>MR16 12V Halogen 2-Pin GX5.3</b>																					
	Q20 MR16 /C /VNSP7	GEL	6	215	0.7	0.7	6	140	0.8	0.7	3.5	2	243	0.9	0.5	3.5	3	304	0.7	0.4	3.
	Beam Spread = 7° x 7°		8	121	0.9	0.9	8	79	1.1	1.0	4.6	3	108	1.3	0.7	5.2	4	171	0.9	0.8	4.0
	CBCP = 7,400		10	77	1.1	1.1	10	50	1.2	1.2	5.8	4	61	1.8	0.9	6.9	5	110	1.2	1.0	5.0
	Rated Life = 3,000 Hrs.		12	54	1.3	1.3	12	35	1.4	1.4	6.9	5	39	2.2	1.2	8.7	6	76	1.4	1.2	6.0
	Q20 MR16 /C /NSP15	GEL	4	237	0.9	0.9	4	154	1.2	1.1	2.3	1.5	263	1.1	0.6	2.6	4	374	0.8	0.6	2.0
	Beam Spread = 15° x 15°		6	106	1.4	1.4	6	69	1.8	1.6	3.5	2.0	148	1.4	0.8	3.5	6	166	0.9	0.9	3.0
	CBCP = 3,750		8	59	1.8	1.8	8	39	2.4	2.2	4.6	2.5	95	1.8	0.9	4.3	8	94	1.2	1.2	4.0
	Rated Life = 5,000 Hrs.		10	38	2.3	2.3	10	25	3.0	2.7	5.8	3.0	66	2.1	1.1	5.2	10	60	1.5	1.5	5.0
	Q20 MR16 /C /FL40	GEL	1.5	222	1.0	1.0	1.5	163	1.1	1.1	0.9	1.0	135	0.9	0.9	1.7	1.0	254	0.8	1.0	1.0
	Beam Spread = 40° x 40°		2.0	125	1.3	1.3	2.0	92	1.4	1.4	1.2	1.5	60	1.4	1.3	2.6	1.5	113	1.1	1.5	1
	CBCP = 525		2.5	80	1.6	1.6	2.5	59	1.8	1.8	1.4	2.0	34	1.8	1.8	3.5	2.0	63	1.5	2.0	2.0
	Rated Life = 5,000 Hrs.		3.0	56	2.0	2.0	3.0	41	2.1	2.1	1.7	2.5	22	2.3	2.3	4.3	2.5	41	1.9	2.5	2.5
	Q35 MR16 /C /SP20	GEL	3	356	1.0	1.0	3	231	1.3	1.1	1.7	1.5	223	1.4	0.9	2.6	2	305	1.2	0.9	2.0
	Beam Spread = 20° x 20°		4	200	1.3	1.3	4	130	1.7	1.5	2.3	2.0	126	1.9	1.1	3.5	3	136	1.7	1.3	3.0
	CBCP = 3,200		5	128	1.6	1.6	5	83	2.1	1.9	2.9	2.5	80	2.4	1.4	4.3	4	76	2.3	1.8	4.0
	Rated Life = 5,000 Hrs.		6	89	1.9	1.9	6	58	2.6	2.2	3.5	3.0	56	2.8	1.7	5.2	5	49	2.9	2.2	5.0
	Q35 MR16 /C /FL40	GEL	2	262	1.2	1.2	2	204	1.3	1.2	1.2	1.0	253	0.9	0.8	1.7	1.5	235	1.2	1.0	1.5
	Beam Spread = 40° x 40°		3	116	1.8	1.8	3	91	2.0	1.8	1.7	1.5	112	1.4	1.2	2.6	2.0	132	1.5	1.3	2.0
	CBCP = 1,000		4	65	2.3	2.3	4	51	2.6	2.4	2.3	2.0	63	1.8	1.7	3.5	2.5	85	1.9	1.7	2.5
	Rated Life = 5,000 Hrs.		5	42	2.9	2.9	5	33	3.3	3.0	2.9	2.5	40	2.3	2.1	4.3	3.0	59	2.3	2.0	3.0
	Q42 MR16 /C /VNSP9	GEL	6	347	0.8	0.8	6	226	1.0	0.9	3.5	2	415	1.0	0.6	3.5	4	276	1.1	0.7	4.0
	Beam Spread = 9° x 9°		8	195	1.0	1.0	8	127	1.4	1.2	4.6	3	185	1.5	0.8	5.2	5	177	1.4	0.9	5.0
	CBCP = 12,500		10	125	1.3	1.3	10	81	1.7	1.4	5.8	4	104	2.0	1.1	6.9	6	123	1.7	1.1	6.0
	Rated Life = 3,500 Hrs.		12	87	1.5	1.5	12	56	2.1	1.7	6.9	5	66	2.6	1.4	8.7	7	90	2.0	1.3	7.0
	Q50 MR16 /C /NSP15	GEL	6	264	1.5	1.5	6	171	1.9	1.7	3.5	2	361	1.5	1.5	3.5	4	229	1.7	1.2	4.
	Beam Spread = 15° x 15°		8	148	1.9	1.9	8	96	2.5	2.2	4.6	3	160	2.3	2.3	5.2	5	147	2.1	1.6	5.0
	CBCP = 9,500		10	95	2.4	2.4	10	62	3.1	2.8	5.8	4	90	3.0	3.0	6.9	6	102	2.5	1.9	6.0
	Rated Life = 6,000 Hrs.		12	66	2.9	2.9	12	43	3.7	3.3	6.9	5	58	3.8	3.8	8.7	7	75	3.0	2.2	7.0
	Q50 MR16 /C /NFL25	GEL	3	322	1.2	1.2	3	212	1.6	1.4	1.7	1.5	220	1.7	1.1	2.6	2	282	1.4	1.1	2.0
	Beam Spread = 25° x 25°		4	181	1.7	1.7	4	119	2.1	1.9	2.3	2.0	124	2.2	1.4	3.5	3	125	2.2	1.7	3.0
	CBCP = 3,000		5	116	2.1	2.1	5	76	2.7	2.4	2.9	2.5	79	2.8	1.8	4.3	4	70	2.9	2.3	4.
	Rated Life = 6,000 Hrs.		6	81	2.5	2.5	6	53	3.2	2.9	3.5	3.0	55	3.3	2.2	5.2	5	45	3.6	2.8	5.0
	Q50 MR16 /C /FL40	GEL	3	213	2.0	2.0	3	181	2.1	2.0	1.7	1.5	259	1.1	1.3	2.6	2	274	1.3	1.5	2.0
	Beam Spread = 40° x 40°		4	120	2.7	2.7	4	102	2.8	2.7	2.3	2.0	146	1.5	1.7	3.5	3	122	2.0	2.3	3.
	CBCP = 1,700		5	77	3.4	3.4	5	65	3.5	3.4	2.9	2.5	93	1.9	2.2	4.3	4	68	2.6	3.0	4.0
	Rated Life = 6,000 Hrs.		6	53	4.0	4.0	6	45	4.2	4.1	3.5	3.0	65	2.3	2.6	5.2	5	44	3.3	3.8	5.0
	Q71 MR16 /C /NSP15	GEL	6	306	1.6	1.8	6	198	2.0	1.8	3.5	3	194	2.3	1.3	5.2	4	276	1.8	1.3	4.0
	Beam Spread = 15° x 15°		8	172	2.2	2.4	8	112	2.6	2.4	4.6	4	109	3.1	1.8	6.9	6	123	2.7	1.9	6.0
	CBCP = 11,000		10	110	2.7	3.0	10	71	3.3	3.0	5.8	5	70	3.9	2.2	8.7	8	69	3.6	2.6	8.0
	Rated Life = 4,000 Hrs.		12	76	3.2	3.6	12	50	3.9	3.6	6.9	6	48	4.7	2.7	10.4	10	44	4.5	3.2	10.0
	Q71 MR16 /C /NFL25	GEL	4	309	1.7	1.7	4	223	2.1	1.9	2.3	2	257	1.7	1.3	3.5	3	256	1.9	1.5	3.0
	Beam Spread = 25° x 25°		6	137	2.5	2.5	6	99	3.1	2.8	3.5	3	114	2.5	1.9	5.2	4	144	2.6	2.1	4.0
	CBCP = 4,950		8	77	3.4	3.4	8	56	4.1	3.7	4.6	4	64	3.4	2.6	6.9	5	92	3.2	2.6	5.0
	Rated Life = 4,000 Hrs.		10	49	4.2	4.2	10	36	5.2	4.6	5.8	5	41	4.2	3.2	8.7	6	64	3.9	3.1	6.0
	Q71 MR16 /C /FL40	GEL	3	236	2.1	2.1	3	200	2.2	2.1	1.7	1.5	286	1.2	1.3	2.6	2	301	1.4	1.5	2.0
	Beam Spread = 40° x 40°		4	133	2.8	2.8	4	112	2.9	2.8	2.3	2.0	161	1.6	1.8	3.5	3	134	2.2	2.3	3.0
	CBCP = 2,000		5	85	3.4	3.4	5	72	3.6	3.5	2.9	2.5	103	2.0	2.2	4.3	4	75	2.9	3.1	4.0
	Rated Life = 4,000 Hrs.		6	59	4.1	4.1	6	50	4.4	4.2	3.5	3.0	71	2.5	2.6	5.2	5	48	3.6	3.8	5.0












# 12V AR70, 12V AR111 LAMP PERFORMANCE DATA

## AR70 12V Halogen DC Bayonet

 20 AR70 /SP8 Beam Spread = 8° x 8° CBCP = 7,700 Rated Life = 3,000 Hrs.	OSI	6	214	1.1	1.1	5	231	1.0	1.0	2.9	3	214	2	1.1	5.2	4	241	1.0	1.0	4.0
		8	120	1.4	1.4	7	118	1.5	1.4	4.0	4	120	2.5	1.4	6.9	5	154	1.6	1.2	5.0
		10	77	1.6	1.6	9	71	1.9	1.7	5.2	5	77	3.1	1.6	8.7	6	107	1.9	1.4	6.0
		12	53	1.9	1.9	11	48	2.3	2.0	6.4	6	53	3.6	1.9	10.4	7	79	2.2	1.6	7.0
 20 AR70 /FL25 Beam Spread = 25° x 25° CBCP = 900 Rated Life = 3,000 Hrs.	OSI	2	225	1.1	1.1	2	169	1.4	1.3	1.2	1	225	2.0	1.1	1.7	2	113	2.1	1.5	2.0
		3	100	1.6	1.6	3	75	2.0	1.8	1.7	2	56	4.4	2.0	3.5	3	50	3.0	2.1	3.0
		4	56	2.0	2.0	4	42	2.6	2.3	2.3	3	25	6.5	2.9	5.2	4	28	4.0	2.7	4.0
		5	36	2.5	2.5	5	27	3.2	2.8	2.9	4	14	8.6	3.8	6.9	5	18	4.9	3.4	5.0
 50 AR70 /SP8 Beam Spread = 8° x 8° CBCP = 12,500 Rated Life = 3,000 Hrs.	OSI	7	255	1.2	1.2	6	260	1.4	1.2	3.5	4	195	2.5	1.4	6.9	5	250	1.6	1.2	5.0
		9	154	1.5	1.5	8	146	1.7	1.5	4.6	5	125	3.1	1.6	8.7	7	128	2.2	1.6	7.0
		11	103	1.8	1.8	10	94	2.1	1.9	5.8	6	87	3.6	1.9	10.4	9	77	2.8	2.0	9.0
		13	74	2.1	2.1	12	65	2.5	2.2	6.9	7	64	4.2	2.2	12.1	11	52	3.3	2.4	11.0
 50 AR70 /FL25 Beam Spread = 25° x 25° CBCP = 2,600 Rated Life = 3,000 Hrs.	OSI	3	289	1.6	1.6	3	217	2.0	1.8	1.7	2	163	4.4	2.0	3.5	3	144	3.0	2.1	3.0
		1	63	2.0	2.0	4	122	2.6	2.3	2.3	3	72	6.5	2.9	5.2	4	81	4.0	2.7	4.0
		5	104	2.5	2.5	5	78	3.2	2.8	2.9	4	41	8.6	3.8	6.9	5	52	4.9	3.4	5.0
		6	72	2.9	2.9	6	54	3.8	3.3	3.5	5	26	10.6	4.7	8.7	6	36	5.8	4.0	6.0

## AR111 12V Halogen G53

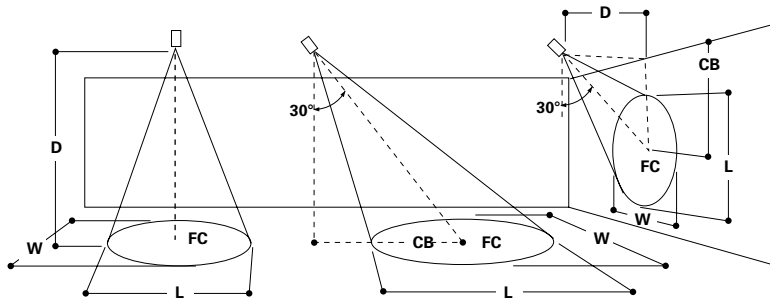
 35 AR111 /SSP4 Beam Spread = 4° x 4° CBCP = 45,000 Rated Life = 3,000 Hrs.	OSI	13	266	1.3	1.3	12	234	1.5	1.3	6.9	6	313	2.0	1.2	10.4	9	278	1.6	1.3	9.0
		18	139	1.6	1.6	16	132	1.9	1.7	9.2	9	139	2.9	1.6	15.6	13	133	2.2	1.6	13.0
		23	85	2.0	2.0	20	84	2.2	2.0	11.5	12	78	3.7	2.0	20.8	17	78	2.7	2.0	17.0
		28	57	2.3	2.3	24	59	2.6	2.3	13.9	15	50	4.6	2.5	26.0	21	51	3.3	2.4	21.0
 35 AR111 /SP8 Beam Spread = 8° x 8° CBCP = 14,000 Rated Life = 3,000 Hrs.	OSI	7	286	1.3	1.3	6	292	1.5	1.3	3.5	4	219	2.6	1.5	6.9	5	280	1.8	1.4	5.0
		10	140	1.8	1.8	8	164	1.9	1.7	4.6	5	140	3.2	1.8	8.7	7	143	2.3	1.7	7.0
		13	83	2.2	2.2	10	105	2.2	2.0	5.8	6	97	3.8	2.0	10.4	9	86	2.9	2.1	9.0
		16	55	2.6	2.6	12	73	2.6	2.3	6.9	7	71	4.3	2.3	12.1	11	58	3.5	2.5	11.0
 35 AR111 /FL25 Beam Spread = 25° x 25° CBCP = 2,500 Rated Life = 3,000 Hrs.	OSI	3	278	1.7	1.7	3	208	2.2	1.9	1.7	2	156	4.5	2.1	3.5	3	139	3.2	2.2	3.0
		4	156	2.1	2.1	4	117	2.8	2.4	2.3	3	69	6.6	3.0	5.2	4	78	4.1	2.9	4.0
		5	100	2.6	2.6	5	75	3.4	2.9	2.9	4	39	8.7	3.9	6.9	5	50	5.0	3.5	5.0
		6	69	3.0	3.0	6	52	4.0	3.4	3.5	5	25	10.8	4.8	8.7	6	35	6.0	4.1	6.0
 50 AR111 /SSP4 Beam Spread = 4° x 4° CBCP = 50,000 Rated Life = 3,000 Hrs.	OSI	12	347	1.4	1.4	12	260	1.6	1.5	6.9	7	255	2.5	1.5	12.1	8	391	1.6	1.3	8.0
		18	154	1.8	1.8	16	146	2.0	1.8	9.2	9	154	3.0	1.8	15.6	12	174	2.2	1.7	12.0
		24	87	2.2	2.2	20	94	2.4	2.1	11.5	11	103	3.6	2.1	19.1	16	98	2.8	2.1	16.0
		30	56	2.6	2.6	26	55	2.9	2.6	15.0	13	74	4.2	2.3	22.5	20	63	3.3	2.5	20.0
 50 AR111 /SP8 Beam Spread = 8° x 8° CBCP = 20,000 Rated Life = 3,000 Hrs.	OSI	10	200	1.8	1.8	8	234	1.9	1.7	4.6	5	200	3.2	1.8	8.7	7	204	2.3	1.7	7.0
		15	89	2.5	2.5	12	104	2.6	2.3	6.9	7	102	4.3	2.3	12.1	10	100	3.2	2.3	10.0
		20	50	3.2	3.2	14	77	3.0	2.6	8.1	9	62	5.5	2.9	15.6	13	59	4.0	2.9	13.0
		25	32	3.9	3.9	16	59	3.4	2.9	9.2	11	41	6.6	3.4	19.1	16	39	4.9	3.5	16.0
 50 AR111 /FL25 Beam Spread = 25° x 25° CBCP = 3,500 Rated Life = 3,000 Hrs.	OSI	4	219	2.1	2.1	3	292	2.2	1.9	1.7	2	219	4.5	2.1	3.5	3	194	3.2	2.2	3.0
		5	140	2.6	2.6	4	164	2.8	2.4	2.3	3	97	6.6	3.0	5.2	4	109	4.1	2.9	4.0
		6	97	3.0	3.0	5	105	3.4	2.9	2.9	4	55	8.7	3.9	6.9	5	70	5.0	3.5	5.0
		7	71	3.5	3.5	6	73	4.0	3.4	3.5	5	35	10.8	4.8	8.7	6	49	6.0	4.1	6.0
 75 AR111 /SP8 Beam Spread = 8° x 8° CBCP = 30,000 Rated Life = 3,000 Hrs.	OSI	10	300	1.8	1.8	9	278	2.0	1.8	5.2	5	300	3.2	1.8	8.7	8	234	2.6	1.9	8.0
		14	153	2.3	2.3	12	156	2.6	2.3	6.9	7	153	4.3	2.3	12.1	11	124	3.5	2.5	11.0
		18	93	2.9	2.9	15	100	3.2	2.8	8.7	9	93	5.5	2.9	15.6	14	77	4.3	3.1	14.0
		22	62	3.4	3.4	18	69	3.7	3.3	10.4	11	62	6.6	3.4	19.1	17	52	5.1	3.7	17.0
 75 AR111 /FL25 Beam Spread = 25° x 25° CBCP = 5,300 Rated Life = 3,000 Hrs.	OSI	5	212	2.6	2.6	4	248	2.8	2.4	2.3	3	147	6.6	3.0	5.2	3	294	3.2	2.2	3.0
		6	147	3.0	3.0	5	159	3.4	2.9	2.9	4	83	8.7	3.9	6.9	4	166	4.1	2.9	4.0
		7	108	3.5	3.5	6	110	4.0	3.4	3.5	5	53	10.8	4.8	8.7	5	106	5.0	3.5	5.0
		8	83	3.9	3.9	7	81	4.6	3.9	4.0	6	37	12.8	5.7	10.4	6	74	6.0	4.1	6.0
 75 AR111 /WFL45 Beam Spread = 45° x 45° CBCP = 1,700 Rated Life = 3,000 Hrs.	OSI	3	189	2.8	2.8	3	142	3.9	3.2	1.7	2	106	14.0	3.7	3.5	2	213	4.4	2.7	2.0
		4	106	3.7	3.7	4	80	5.1	4.2	2.3	3	47	20.8	5.3	5.2	3	94	6.4	3.9	3.0
		5	68	4.5	4.5	5	51	6.2	5.1	2.9	4	27	27.7	7.0	6.9	4	53	8.4	5.1	4.0
		6	47	5.3	5.3	6	35	7.4	6.1	3.5	5	17	34.5	8.6	8.7	5	34	10.4	6.2	5.0

# 120V PAR16, 120V PAR20 LAMP PERFORMANCE DATA

## Lamp Performance Data

D = Distance to the horizontal or vertical surface.  
 FC = Initial footcandles at the center of the beam.  
 L = Length of the beam where candlepower is reduced to 50% of center beam candlepower.  
 W = Width of the beam where candlepower is reduced to 50% of center beam candlepower.  
 CB = Distance to the center of the beam.







Lamp data given is typical and is based on bare lamp performance.  
 Contact lamp manufacturers for availability and specific performance.  
 Distance, length and width given in decimal feet.












	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles					30° Aiming Angle Vertical Footcandles					45° Aiming Angle Vertical Footcandles						
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB		
<b>PAR16 Halogen E26 Medium Base</b>																					
	60 PAR16 /CAP /NSP10	OSI	6	139	1.2	1.2	5	150	1.3	1.2	2.9	2	313	1.6	0.9	3.5	3	278	1.2	0.9	3.0
	Beam Spread = 10° x 10°		8	78	1.6	1.6	7	77	1.8	1.6	4.0	3	139	2.3	1.2	5.2	5	100	1.9	1.4	5.0
	CBCP = 5,000		10	50	1.9	1.9	9	46	2.3	2.0	5.2	4	78	3.0	1.6	6.9	7	51	2.6	1.9	7.0
	Rated Life = 2,000 Hrs.		12	35	2.3	2.3	11	31	2.7	2.4	6.4	5	50	3.7	1.9	8.7	9	31	3.3	2.4	9.0
	60 PAR16 /CAP /NFL30	OSI	5	200	1.0	1.0	4	234	1.1	1.0	2.3	3	139	2.3	1.2	5.2	3	278	1.2	0.9	3.0
	Beam Spread = 30° x 30°		6	139	1.2	1.2	5	150	1.3	1.2	2.9	4	78	3.0	1.6	6.9	4	156	1.6	1.2	4.0
	CBCP = 1,300		7	102	1.4	1.4	6	104	1.6	1.4	3.5	5	50	3.7	1.9	8.7	5	100	1.9	1.4	5.0
	Rated Life = 2,000 Hrs.		8	78	1.6	1.6	7	77	1.8	1.6	4.0	6	35	4.5	2.3	10.4	6	69	2.3	1.7	6.0
	75 PAR16 /CAP /NSP10	OSI	5	300	1.0	1.0	5	225	1.3	1.2	2.9	3	208	2.3	1.2	5.2	4	234	1.6	1.2	4.0
	Beam Spread = 10° x 10°		7	153	1.4	1.4	6	156	1.6	1.4	3.5	4	117	3.0	1.6	6.9	5	150	1.9	1.4	5.0
	CBCP = 7,500		9	93	1.7	1.7	7	115	1.8	1.6	4.0	5	75	3.7	1.9	8.7	6	104	2.3	1.7	6.0
	Rated Life = 2,000 Hrs.		11	62	2.1	2.1	8	88	2.0	1.8	4.6	6	52	4.5	2.3	10.4	7	77	2.6	1.9	7.0
	75 PAR16 /CAP /NFL30	OSI	3	211	1.8	1.8	3	158	2.4	2.0	1.7	2	119	5.6	2.3	3.5	2	238	2.5	1.7	2.0
	Beam Spread = 30° x 30°		4	119	2.3	2.3	4	89	3.1	2.6	2.3	3	53	8.4	3.4	5.2	3	106	3.6	2.4	3.0
	CBCP = 1,900		5	76	2.8	2.8	5	57	3.8	3.3	2.9	4	30	11.1	4.5	6.9	4	59	4.8	3.2	4.0
	Rated Life = 2,000 Hrs.		6	53	3.4	3.4	6	40	4.6	3.9	3.5	5	19	13.8	5.5	8.7	5	38	5.9	4.0	5.0
<b>PAR20 Halogen E26 Medium Base</b>																					
	35 PAR20 /HAL /NSP10	OSI	4	188	0.9	0.9	3	250	0.9	0.8	1.7	2	188	1.6	0.9	3.5	3	167	1.3	1.0	3.0
	Beam Spread = 10° x 10°		5	120	1.1	1.1	4	141	1.1	1.0	2.3	3	83	2.4	1.3	5.2	4	94	1.6	1.2	4.0
	CBCP = 3,000		6	83	1.3	1.3	5	90	1.4	1.2	2.9	4	47	3.1	1.6	6.9	5	60	2.0	1.4	5.0
	Rated Life = 2,500 Hrs.		7	61	1.4	1.4	6	63	1.6	1.4	3.5	5	30	3.8	2.0	8.7	6	42	2.3	1.7	6.0
	35 PAR20 /HAL /NFL30	OSI	2	200	1.3	1.3	2	150	1.7	1.4	1.2	1	200	2.9	1.3	1.7	2	100	2.5	1.7	2.0
	Beam Spread = 30° x 30°		3	89	1.8	1.8	3	67	2.4	2.1	1.7	2	50	5.7	2.4	3.5	3	44	3.7	2.5	3.0
	CBCP = 800		4	50	2.4	2.4	4	38	3.1	2.7	2.3	3	22	8.4	3.4	5.2	4	25	4.8	3.2	4.0
	Rated Life = 2,500 Hrs.		5	32	2.9	2.9	5	24	3.9	3.3	2.9	4	13	11.1	4.5	6.9	5	16	6.0	4.0	5.0
	35 PAR20 /HAL /WFL40	OSI	2	125	1.7	1.7	2	94	2.2	1.9	1.2	1	125	5.0	1.7	1.7	1	250	1.9	1.2	1.0
	Beam Spread = 40° x 40°		3	56	2.4	2.4	3	42	3.3	2.7	1.7	2	31	9.9	3.1	3.5	2	63	3.6	2.3	2.0
	CBCP = 500		4	31	3.1	3.1	4	23	4.3	3.6	2.3	3	14	14.7	4.6	5.2	3	28	5.2	3.3	3.0
	Rated Life = 2,500 Hrs.		5	20	3.8	3.8	5	15	5.3	4.4	2.9	4	8	19.5	6.0	6.9	4	16	6.9	4.3	4.0
	50 PAR20 /HAL /NSP10	OSI	4	288	0.9	0.9	4	216	1.1	1.0	2.3	2	288	1.6	0.9	3.5	3	256	1.3	1.0	3.0
	Beam Spread = 10° x 10°		5	184	1.1	1.1	5	138	1.4	1.2	2.9	3	128	2.4	1.3	5.2	4	144	1.6	1.2	4.0
	CBCP = 4,600		6	128	1.3	1.3	6	96	1.6	1.4	3.5	4	72	3.1	1.6	6.9	5	92	2.0	1.4	5.0
	Rated Life = 2,500 Hrs.		7	94	1.4	1.4	7	70	1.8	1.6	4.0	5	46	3.8	2.0	8.7	6	64	2.3	1.7	6.0
	50 PAR20 /HAL /NFL30	OSI	2	300	1.3	1.3	2	225	1.7	1.4	1.2	1	300	2.9	1.3	1.7	2	150	2.5	1.7	2.0
	Beam Spread = 30° x 30°		3	133	1.8	1.8	3	100	2.4	2.1	1.7	2	75	5.7	2.4	3.5	3	67	3.7	2.5	3.0
	CBCP = 1,200		4	75	2.4	2.4	4	56	3.1	2.7	2.3	3	33	8.4	3.4	5.2	4	38	4.8	3.2	4.0
	Rated Life = 2,500 Hrs.		5	48	2.9	2.9	5	36	3.9	3.3	2.9	4	19	11.1	4.5	6.9	5	24	6.0	4.0	5.0
	50 PAR20 /HAL /WFL40	OSI	2	138	1.7	1.7	2	103	2.2	1.9	1.2	1	138	5.0	1.7	1.7	1	275	1.9	1.2	1.0
	Beam Spread = 40° x 40°		3	61	2.4	2.4	3	46	3.3	2.7	1.7	2	34	9.9	3.1	3.5	2	69	3.6	2.3	2.0
	CBCP = 550		4	34	3.1	3.1	4	26	4.3	3.6	2.3	3	15	14.7	4.6	5.2	3	31	5.2	3.3	3.0
	Rated Life = 2,500 Hrs.		5	22	3.8	3.8	5	17	5.3	4.4	2.9	4	9	19.5	6.0	6.9	4	17	6.9	4.3	4.0

# 120V PAR30, 120V PAR38 LAMP PERFORMANCE DATA

## PAR30 (Short Neck) Halogen E26 Medium Base

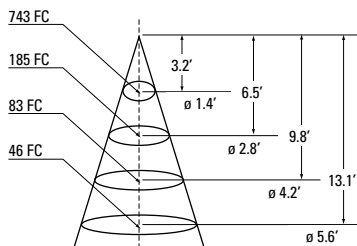
	50 PAR30 /CAP /SPL /NSP9	OSI	6	244	1.3	1.3	5	264	1.4	1.2	2.9	3	244	2.2	1.3	5.2	4	275	1.6	1.2	4.0
	Beam Spread = 9° x 9°		8	138	1.6	1.6	7	135	1.8	1.6	4.0	4	138	2.9	1.6	6.9	5	176	1.9	1.4	5.0
	CBCP = 8,800		10	88	1.9	1.9	9	81	2.2	1.9	5.2	5	88	3.5	1.9	8.7	6	122	2.2	1.6	6.0
	Rated Life = 2,500 Hrs.		12	61	2.2	2.2	11	55	2.6	2.3	6.4	6	61	4.2	2.2	10.4	7	90	2.5	1.9	7.0
	50 PAR30 /CAP /SPL /NFL25	OSI	3	256	1.6	1.6	3	192	2.1	1.8	1.7	2	144	4.5	2.1	3.5	2	288	2.2	1.6	2.0
	Beam Spread = 25° x 25°		8	36	3.9	3.9	4	108	2.7	2.4	2.3	3	64	6.6	3.0	5.2	3	128	3.1	2.2	3.0
	CBCP = 2,300		10	23	4.7	4.7	5	69	3.3	2.9	2.9	4	36	8.6	3.9	6.9	4	72	4.0	2.8	4.0
	Rated Life = 2,500 Hrs.		12	16	5.6	5.6	6	48	3.9	3.4	3.5	5	23	10.7	4.7	8.7	5	46	5.0	3.4	5.0
	50 PAR30 /CAP /SPL /FL40	OSI	3	144	2.5	2.5	2	244	2.3	2.0	1.2	2	81	10.0	3.2	3.5	2	163	3.7	2.4	2.0
	Beam Spread = 40° x 40°		4	81	3.2	3.2	3	108	3.4	2.8	1.7	3	36	14.8	4.7	5.2	3	72	5.3	3.4	3.0
	CBCP = 1,300		5	52	4.0	4.0	4	61	4.4	3.7	2.3	4	20	19.6	6.1	6.9	4	41	7.0	4.4	4.0
	Rated Life = 2,500 Hrs.		6	36	4.7	4.7	5	39	5.4	4.5	2.9	5	13	24.5	7.6	8.7	5	26	8.7	5.5	5.0
	75 PAR30 /CAP /SPL /NSP9	OSI	8	241	1.6	1.6	7	236	1.8	1.6	4.0	4	241	2.9	1.6	6.9	6	214	2.2	1.6	6.0
	Beam Spread = 9° x 9°		11	127	2.0	2.0	9	143	2.2	1.9	5.2	5	154	3.5	1.9	8.7	7	157	2.5	1.9	7.0
	CBCP = 15,400		14	79	2.5	2.5	11	95	2.6	2.3	6.4	6	107	4.2	2.2	10.4	8	120	2.8	2.1	8.0
	Rated Life = 2,500 Hrs.		17	53	3.0	3.0	13	68	3.0	2.7	7.5	7	79	4.8	2.5	12.1	9	95	3.2	2.3	9.0
	75 PAR30 /CAP /SPL /NFL25	OSI	4	250	2.1	2.1	4	188	2.7	2.4	2.3	2	250	4.5	2.1	3.5	3	222	3.1	2.2	3.0
	Beam Spread = 25° x 25°		5	160	2.5	2.5	5	120	3.3	2.9	2.9	3	111	6.6	3.0	5.2	4	125	4.0	2.8	4.0
	CBCP = 4,000		6	111	3.0	3.0	6	83	3.9	3.4	3.5	4	63	8.6	3.9	6.9	5	80	5.0	3.4	5.0
	Rated Life = 2,500 Hrs.		7	82	3.4	3.4	7	61	4.5	3.9	4.0	5	40	10.7	4.7	8.7	6	56	5.9	4.1	6.0
	75 PAR30 /CAP /SPL /FL40	OSI	3	233	2.5	2.5	3	175	3.4	2.8	1.7	2	131	10.0	3.2	3.5	2	263	3.7	2.4	2.0
	Beam Spread = 40° x 40°		4	131	3.2	3.2	4	98	4.4	3.7	2.3	3	58	14.8	4.7	5.2	3	117	5.3	3.4	3.0
	CBCP = 2,100		5	84	4.0	4.0	5	63	5.4	4.5	2.9	4	33	19.6	6.1	6.9	4	66	7.0	4.4	4.0
	Rated Life = 2,500 Hrs.		6	58	4.7	4.7	6	44	6.4	5.4	3.5	5	21	24.5	7.6	8.7	5	42	8.7	5.5	5.0

## PAR38 Halogen E26 Medium Base

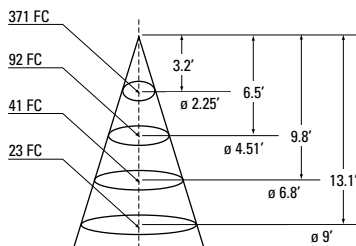
	45 PAR /CAP /SPL /SP9	OSI	6	278	1.3	1.3	4	469	1.2	1.1	2.3	3	278	2.3	1.3	5.2	5	200	2.0	1.5	5.0
	Beam Spread = 9° x 9°		8	156	1.7	1.7	6	208	1.7	1.5	3.5	4	156	3.0	1.7	6.9	6	139	2.3	1.7	6.0
	CBCP = 10,000		10	100	2.0	2.0	8	117	2.1	1.8	4.6	5	100	3.6	2.0	8.7	7	102	2.6	2.0	7.0
	Rated Life = 2,500 Hrs.		12	69	2.3	2.3	10	75	2.5	2.2	5.8	6	69	4.2	2.3	10.4	8	78	2.9	2.2	8.0
	45 PAR /CAP /SPL /FL30	OSI	3	167	2.0	2.0	2	281	1.9	1.6	1.2	2	94	5.9	2.5	3.5	2	188	2.7	1.9	2.0
	Beam Spread = 30° x 30°		4	94	2.5	2.5	3	125	2.6	2.3	1.7	3	42	8.6	3.6	5.2	3	83	3.9	2.7	3.0
	CBCP = 1,500		5	60	3.1	3.1	4	70	3.3	2.9	2.3	4	23	11.3	4.7	6.9	4	47	5.0	3.4	4.0
	Rated Life = 2,500 Hrs.		6	42	3.6	3.6	5	45	4.1	3.5	2.9	5	15	14.1	5.8	8.7	5	30	6.2	4.2	5.0
	45 PAR /CAP /SPL /WFL50	OSI	2	175	2.3	2.3	2	131	3.1	2.5	1.2	1	175	11.1	2.3	1.7	2	88	5.2	3.0	2.0
	Beam Spread = 50° x 50°		3	78	3.2	3.2	3	58	4.4	3.6	1.7	2	44	21.9	4.1	3.5	3	39	7.5	4.4	3.0
	CBCP = 700		4	44	4.1	4.1	4	33	5.8	4.7	2.3	3	19	32.6	6.0	5.2	4	22	9.9	5.7	4.0
	Rated Life = 2,500 Hrs.		5	28	5.1	5.1	5	21	7.1	5.8	2.9	4	11	43.3	7.9	6.9	5	14	12.3	7.0	5.0
	60 PAR /CAP /SPL /SP9	OSI	8	250	1.7	1.7	7	245	1.9	1.7	4.0	4	250	3.0	1.7	6.9	6	222	2.3	1.7	6.0
	Beam Spread = 9° x 9°		11	132	2.1	2.1	9	148	2.3	2.0	5.2	5	160	3.6	2.0	8.7	8	125	2.9	2.2	8.0
	CBCP = 16,000		14	82	2.6	2.6	11	99	2.7	2.4	6.4	6	111	4.2	2.3	10.4	10	80	3.6	2.6	10.0
	Rated Life = 3,000 Hrs.		17	55	3.1	3.1	13	71	3.1	2.8	7.5	7	82	4.9	2.6	12.1	12	56	4.2	3.1	12.0
	60 PAR /CAP /SPL /NFL25	OSI	4	206	2.2	2.2	3	275	2.2	1.9	1.7	2	206	4.6	2.2	3.5	3	183	3.2	2.3	3.0
	Beam Spread = 25° x 25°		5	132	2.6	2.6	4	155	2.8	2.4	2.3	3	92	6.6	3.1	5.2	4	103	4.1	2.9	4.0
	CBCP = 3,300		6	92	3.1	3.1	5	99	3.4	3.0	2.9	4	52	8.7	3.9	6.9	5	66	5.1	3.5	5.0
	Rated Life = 3,000 Hrs.		7	67	3.5	3.5	6	69	4.0	3.5	3.5	5	33	10.8	4.8	8.7	6	46	6.0	4.2	6.0
	60 PAR /CAP /SPL /FL30	OSI	3	278	2.0	2.0	3	208	2.6	2.3	1.7	2	156	5.9	2.5	3.5	3	139	3.9	2.7	3.0
	Beam Spread = 30° x 30°		4	156	2.5	2.5	4	117	3.3	2.9	2.3	3	69	8.6	3.6	5.2	4	78	5.0	3.4	4.0
	CBCP = 2,500		5	100	3.1	3.1	5	75	4.1	3.5	2.9	4	39	11.3	4.7	6.9	5	50	6.2	4.2	5.0
	Rated Life = 3,000 Hrs.		6	69	3.6	3.6	6	52	4.8	4.1	3.5	5	25	14.1	5.8	8.7	6	35	7.3	4.9	6.0
	90 PAR /CAP /SPL /SP9	OSI	9	274	1.8	1.8	8	260	2.1	1.8	4.6	5	222	3.6	2.0	8.7	7	227	2.6	2.0	7.0
	Beam Spread = 9° x 9°		12	154	2.3	2.3	11	138	2.7	2.4	6.4	6	154	4.2	2.3	10.4	9	137	3.2	2.4	9.0
	CBCP = 22,000		15	99	2.8	2.8	14	85	3.3	2.9	8.1	7	113	4.9	2.6	12.1	11	92	3.9	2.8	11.0
	Rated Life = 2,500 Hrs.		18	69	3.2	3.2	17	58	4.0	3.5	9.8	8	87	5.5	2.9	13.9	13	66	4.5	3.3	13.0
	90 PAR /CAP /SPL /FL30	OSI	4	219	2.5	2.5	3	292	2.6	2.3	1.7	2	219	5.9	2.5	3.5	3	194	3.9	2.7	3.0
	Beam Spread = 30° x 30°		6	97	3.6	3.6	4	164	3.3	2.9	2.3	3	97	8.6	3.6	5.2	4	109	5.0	3.4	4.0
	CBCP = 3,500		8	55	4.7	4.7	5	105	4.1	3.5	2.9	4	55	11.3	4.7	6.9	5	70	6.2	4.2	5.0
	Rated Life = 2,500 Hrs.		10	35	5.8	5.8	6	73	4.8	4.1	3.5	5	35	14.1	5.8	8.7	6	49	7.3	4.9	6.0
	120 PAR /CAP /SPL /FL30	OSI	4	288	2.5	2.5	4	216	3.3	2.9	2.3	2	288	5.9	2.5	3.5	3	256	3.9	2.7	3.0
	Beam Spread = 30° x 30°		5	184	3.1	3.1	5	138	4.1	3.5	2.9	3	128	8.6	3.6	5.2	4				

# ES16MH BRITESPOT™ LAMP PERFORMANCE DATA

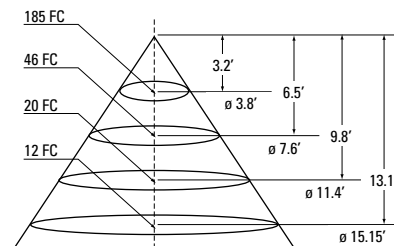
## ES16MH LAMP - 39 Watt



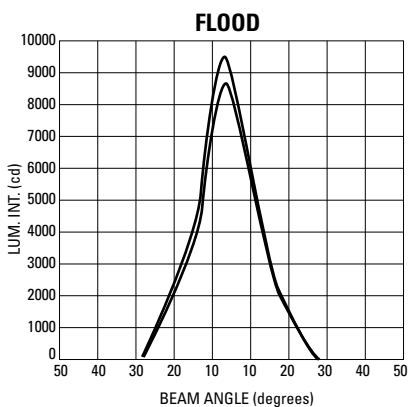
**BriteSpot™ ES16 39W 24°**



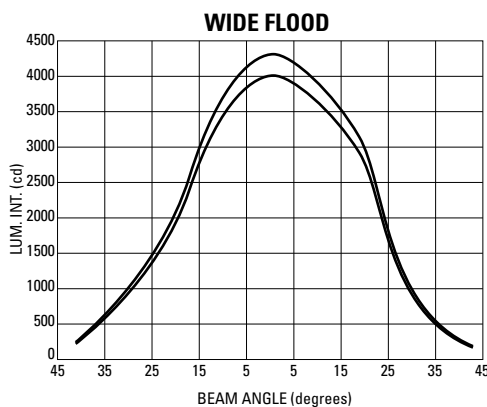
**BriteSpot™ ES16 39W 38°**



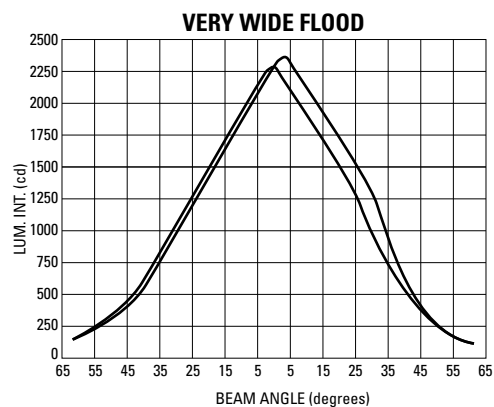
**BriteSpot™ ES16 39W 60°**



**FLOOD**

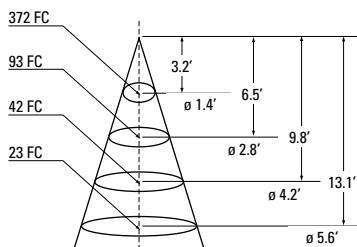


**WIDE FLOOD**

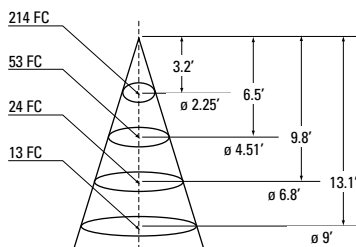


**VERY WIDE FLOOD**

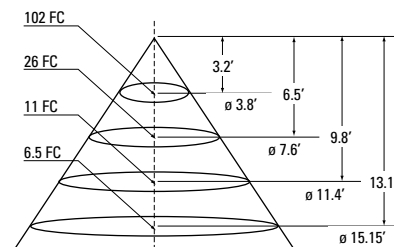
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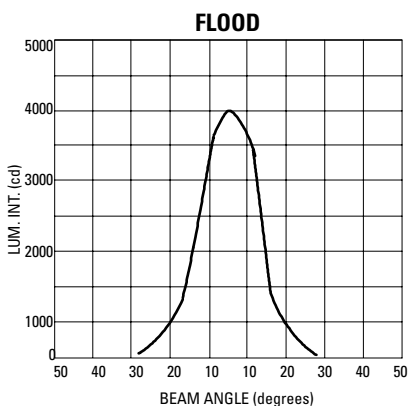
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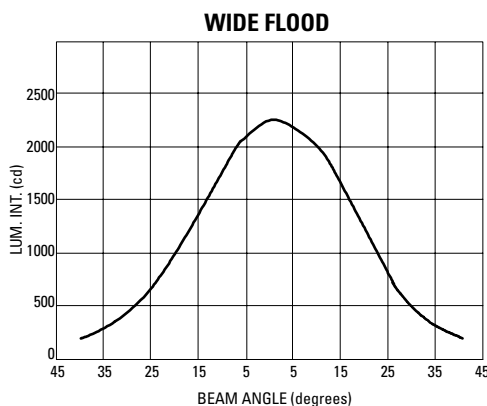
**BriteSpot™ ES16 20W 38°**



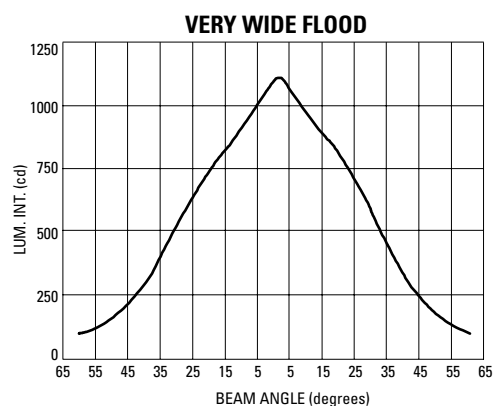
**BriteSpot™ ES16 20W 60°**



**FLOOD**



**WIDE FLOOD**



**VERY WIDE FLOOD**

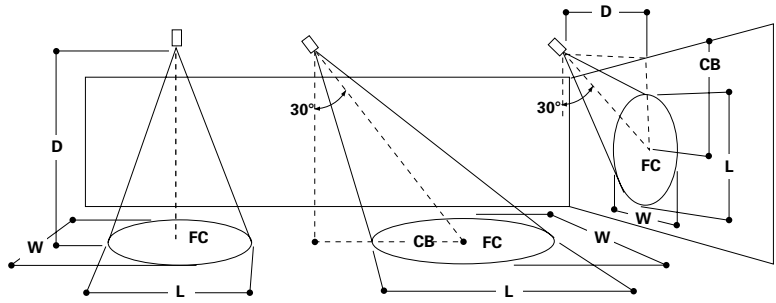
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# PAR20MH, PAR30MH, PAR38MH LAMP PERFORMANCE DATA

## Lamp Performance Data

D = Distance to the horizontal or vertical surface.  
 FC = Initial footcandles at the center of the beam.  
 L = Length of the beam where candlepower is reduced to 50% of center beam candlepower.  
 W = Width of the beam where candlepower is reduced to 50% of center beam candlepower.  
 CB = Distance to the center of the beam.

Lamp data given is typical and is based on bare lamp performance.  
 Contact lamp manufacturers for availability and specific performance.  
 Distance, length and width given in decimal feet.



	0° Aiming Angle Horizontal Footcandles				30° Aiming Angle Horizontal Footcandles				30° Aiming Angle Vertical Footcandles				45° Aiming Angle Vertical Footcandles								
	D	FC	L	W	D	FC	L	W	CB	D	FC	L	W	CB	D	FC	L	W	CB		
<b>PAR20MH Ceramic Metal Halide</b>																					
	CDM35 /PAR20 /M /SP	PHI	9	284	1.7	1.7	9	184	2.2	2.7	5.2	3	319	2.2	2.2	5.2	6	226	2.3	1.6	6.0
	Beam Spread = 10° x 10°		13	136	2.4	2.4	13	88	3.2	3.9	7.5	4	180	3.0	3.0	6.9	8	127	3.0	2.1	8.0
	CBCP = 23000		16	90	3.0	3.0	16	58	4.0	4.8	9.2	5	115	3.7	3.7	8.7	10	81	3.8	2.7	10.0
	Rated Life = 9,000 Hrs.		20	57	3.7	3.7	20	37	5.0	6.0	11.5	6	80	4.5	4.5	10.4	12	56	4.5	3.2	12.0
	CDM35 /PAR20 /M /FL	PHI	4	313	2.2	2.2	4	228	2.5	2.3	2.3	2	285	2.0	1.6	3.5	3	269	2.2	1.9	3.0
	Beam Spread = 30° x 30°		6	139	3.3	3.3	6	101	3.8	3.5	3.5	3	127	2.9	2.3	5.2	4	151	3.0	2.6	4.0
	CBCP = 5000		8	78	4.3	4.3	8	57	5.1	4.6	4.6	4	71	3.9	3.1	6.9	5	97	3.7	3.2	5.0
	Rated Life = 9,000 Hrs.		10	50	5.4	5.4	10	37	6.4	5.8	5.8	5	46	4.9	3.9	8.7	6	67	4.4	3.9	6.0
<b>PAR30MH Ceramic Metal Halide</b>																					
	CDM35 /PAR30L /M /SP	PHI	15	196	2.3	2.3	15	127	3.0	2.5	8.7	5	220	3.1	1.6	8.7	8	243	2.5	1.7	8.0
	Beam Spread = 10° x 10°		20	110	3.1	3.1	20	71	4.0	3.4	11.5	6	153	3.8	1.9	10.4	10	156	3.1	2.1	10.0
	CBCP = 44000		25	70	3.9	3.9	25	46	5.0	4.2	14.4	7	112	4.4	2.3	12.1	12	108	3.7	2.5	12.0
	Rated Life = 9,000 Hrs.		30	49	4.7	4.7	30	32	6.0	5.1	17.3	8	86	5.0	2.6	13.9	14	79	4.3	3.0	14.0
	CDM35 /PAR30L /M /FL	PHI	5	296	2.5	2.5	5	212	3.0	2.7	2.9	3	175	2.9	2.2	5.2	4	210	2.9	2.4	4.0
	Beam Spread = 30° x 30°		7	151	3.5	3.5	7	108	4.2	3.8	4.0	4	99	3.9	3.0	6.9	5	134	3.6	3.1	5.0
	CBCP = 7400		9	91	4.5	4.5	9	65	5.3	4.8	5.2	5	63	4.9	3.7	8.7	6	93	4.4	3.7	6.0
	Rated Life = 9,000 Hrs.		11	61	5.5	5.5	11	44	6.5	5.9	6.4	6	44	5.8	4.5	10.4	7	68	5.1	4.3	7.0
	CDM70 /PAR30L /M /SP	PHI	15	302	2.6	2.6	15	196	3.4	2.8	8.7	6	236	4.2	2.2	10.4	10	240	3.5	2.5	10.0
	Beam Spread = 10° x 10°		20	170	3.4	3.4	20	110	4.5	3.8	11.5	8	133	5.7	2.9	13.9	12	167	4.2	2.9	12.0
	CBCP = 68000		25	109	4.3	4.3	25	71	5.7	4.7	14.4	10	85	7.1	3.6	17.3	14	123	4.9	3.4	14.0
	Rated Life = 9,000 Hrs.		30	76	5.2	5.2	30	49	6.8	5.7	17.3	12	59	8.5	4.4	20.8	16	94	5.6	3.9	16.0
	CDM70 /PAR30L /M /FL	PHI	6	278	3.9	3.9	6	217	4.2	4.0	3.5	3	295	2.9	2.6	5.2	4	325	3.1	2.9	4.0
	Beam Spread = 40° x 40°		8	156	5.2	5.2	8	122	5.6	5.4	4.6	4	166	3.8	3.5	6.9	6	144	4.7	4.4	6.0
	CBCP = 10000		10	100	6.4	6.4	10	78	7.0	6.7	5.8	5	106	4.8	4.4	8.7	8	81	6.2	5.8	8.0
	Rated Life = 9,000 Hrs.		12	69	7.7	7.7	12	54	8.0	8.0	6.9	6	74	5.8	5.2	10.4	10	52	7.8	7.3	10.0
<b>PAR38MH Ceramic Metal Halide</b>																					
	CDM70 /PAR38 /SP /3K	PHI	15	207	3.7	3.7	15	134	4.7	4.2	8.7	5	244	4.2	2.4	8.7	8	257	3.7	2.7	8.0
	Beam Spread = 15° x 15°		20	116	5.0	5.0	20	76	6.3	5.6	11.5	7	125	5.9	3.4	12.1	10	165	4.6	3.4	10.0
	CBCP = 46572		25	75	6.2	6.2	25	48	7.8	7.0	14.4	9	75	7.6	4.3	15.6	12	114	5.5	4.0	12.0
	Rated Life = 10,000 Hrs.		30	52	7.5	7.5	30	34	9.4	8.4	17.3	11	50	9.2	5.3	19.1	14	84	6.4	4.7	14.0
	CDM70 /PAR38 /FL /3K	PHI	8	276	3.5	3.5	8	186	4.3	3.9	4.6	5	127	5.3	3.6	8.7	5	283	3.6	2.9	5.0
	Beam Spread = 25° x 25°		10	177	4.4	4.4	10	119	5.4	4.9	5.8	7	65	7.4	5.0	12.1	7	145	5.0	4.0	7.0
	CBCP = 17697		12	123	5.2	5.2	12	82	6.5	5.9	6.9	9	39	9.5	6.5	15.6	9	87	6.4	5.1	9.0
	Rated Life = 10,000 Hrs.		14	90	6.1	6.1	14	61	7.5	6.8	8.1	11	26	11.6	7.9	19.1	11	59	7.9	6.3	11.0
	CDM70 /PAR38 /WFL /3K	PHI	4	301	3.2	3.2	4	211	3.8	4.0	2.3	3	178	3.3	3.4	5.2	3	266	3.2	3.3	3.0
	Beam Spread = 60° x 60°		6	134	4.9	4.9	6	94	5.6	6.0	3.5	4	100	4.5	4.6	6.9	4	150	4.2	4.4	4.0
	CBCP = 4822		8	75	6.5	6.5	8	53	7.5	8.0	4.6	5	64	5.6	5.7	8.7	5	96	5.3	5.5	5.0
	Rated Life = 10,000 Hrs.		10	48	8.1	8.1	10	34	9.4	10.0	5.8	6	44	6.7	6.9	10.4	6	67	6.4	6.6	6.0
	CDM100 /PAR38 /SP /3K	PHI	15	284	3.8	3.8	15	185	4.8	4.3	8.7	6	234	5.1	2.9	10.4	10	226	4.7	3.4	10.0
	Beam Spread = 15° x 15°		20	160	5.1	5.1	20	104	6.4	5.7	11.5	8	132	6.8	3.9	13.9	12	157	5.6	4.1	12.0
	CBCP = 639747		25	102	6.3	6.3	25	66	7.9	7.1	14.4	10	84	8.5	4.9	17.3	14	115	6.5	4.8	14.0
	Rated Life = 10,000 Hrs.		30	71	7.6	7.6	30	46	9.5	8.5	17.3	12	58	10.3	5.8	20.8	16	88	7.5	5.5	16.0
	CDM100 /PAR38 /FL /3K	PHI	9	279	4.1	4.1	9	187	5.0	4.6	5.2	4	259	4.2	2.9	6.9	6	253	4.4	4.8	6.0
	Beam Spread = 25° x 25°		13	134	5.9	5.9	13	90	7.3	6.6	7.5	5	166	5.3	3.7	8.7	8	142	5.9	6.4	8.0
	CBCP = 22614		17	78	7.7	7.7	17	52	9.5	8.6	9.8	7	85	7.4	5.1	12.1	10	91	7.3	8.0	10.0
	Rated Life = 10,000 Hrs.		20	57	9.0	9.0	20	38	11.2	10.1	11.5	9	51	9.5	6.6	15.6	12	63	8.8	9.6	12.0
	CDM100 /PAR38 /WFL /3K	PHI	5	274	3.8	3.8	5	195	4.7	4.5	2.9	3	233	3.7	3.4	5.2	3	353	3.4	4.5	3.0
	Beam Spread = 60° x 60°		7	140	5.3	5.3	7	100	6.5	6.3	4.0	4	131	5.0	4.6	6.9	4	198	4.5	6.0	4.0
	CBCP = 6862		9	85	6.8	6.8	9	60	8.4	8.1	5.2	5	84	6.2	5.7	8.7	5	127	5.7	7.5	5.0
	Rated Life = 10,000 Hrs.		11	57	8.3	8.3	11	40	10.2	9.9	6.4	6	58	7.4	6.9	10.4	6	88	6.8	9.0	6.0



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