ALERA LIGHTING

# curv
## radial family

## SPOTLIGHT

**LCVR-L** LED CURV RADIAL LENS / **CVRL** CURV RADIAL LENS /
**CVRB** CURV RADIAL BAFFLE / **CVL** CURV LOUVERED

Optional LED technology.

Additional energy reduction strategies.

Efficient lighting in action.

Integrated control solutions.

Daylight sensor options.

HUBBELL Lighting

# CURV RADIAL FAMILY

– A family of graceful curved shapes providing indirect-direct or direct illumination
– Compliments most architecture for retrofit or new construction of office, education, healthcare, and municipal buildings
– Popular applications include areas where visual comfort is important, different light levels are required within the same space, or where daylight harvesting is part of the building design

## CURV RADIAL LENS OPTIONAL LED TECHNOLOGY

Attractive radial lens is available using either LED or fluorescent illumination technology

## CURV RADIAL BAFFLE

Solid radial baffles are available with fluorescent illumination technology

## CURV LOUVERED

Efficient louver is available with fluorescent illumination technology



## END CAPS

Select one of three ends to compliment the space

**FLAT END**
Standard

**SCULPTED END**
Optional
Adds 5 5/16" per end
(10 5/8" total)

**BULL NOSE END**
Optional
Adds 5 1/16" per end
(10 1/8" total)

## INTEGRAL SENSORS

Curv Radial family products are fully compatible with daylight and occupancy sensors. The curv family can be ordered and shipped with sensors integral to the luminaire or configured to operate with ceiling or wall mounted sensors by others.

## ALERA EXPRESS QUICK SHIP

Our popular 10-day shipping program features many Curv Radial configurations. ALERA EXPRESS

## CUSTOMER SUPPORT

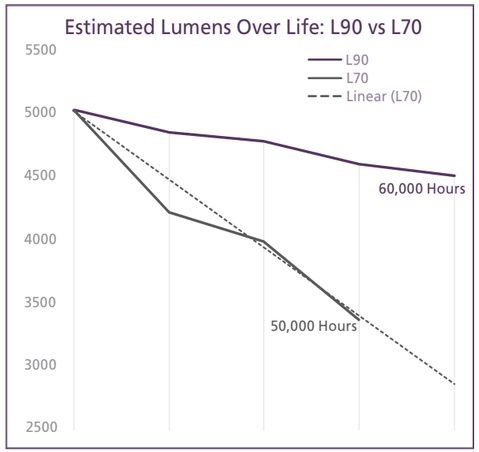
Our team of specialists are ready to work with you on project planning, rough-in drawings, and technical assistance.
Call (864) 678-1000 or visit aleralighting.com.

# CURV RADIAL LENS
## LED

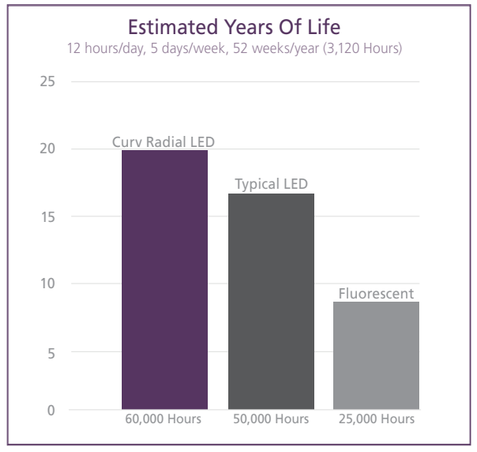
Curv Radial Lens provides energy savings, low maintenance, and design flexibility.

Curv Radial Lens LED is a simple replacement for fluorescent, with exceptional life and lumen maintenance for dependable performance over time.

### EXCEPTIONAL LED QUALITY

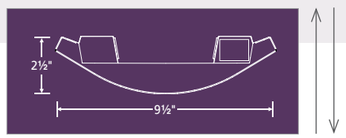



Compare Curv LED's L90 lumen maintenance at 60,000 hours to the industry standard L70 at 50,000 hours.

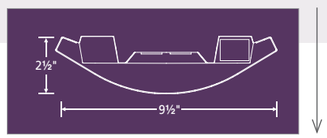



Compare Curv LED's 60,000 hours of life to the industry standard LED at 50,000 hours and fluorescent at 20,000 to 25,000 hours.

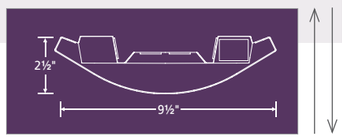
### HOUSING STYLES & DISTRIBUTION




**LCVR-L-35ML-20**




**LCVR-L-35ML-100**
LED positioned for direct light only




**LCVR-L-35ML-40**
**LCVR-L-35ML-60**
**LCVR-L-35ML-80**
LED positioned for both direct and indirect lighting





# CURV RADIAL LENS
## LED OR FLUORESCENT

**Curv Radial Lens creates a smooth and glowing contour for a pleasant direct/indirect lighting design. The lens is both highly efficient and highly opaque, with LED efficacy of up to 133 lumens per watt and fluorescent efficiencies above 90%. Sensors, emergency circuiting and even RAL colors can be selected to personalize this attractive luminaire.**

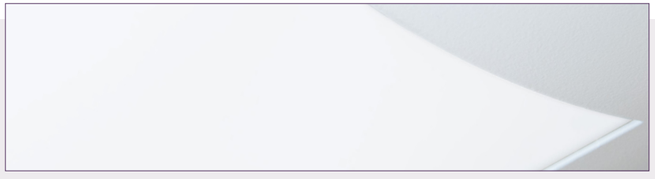
**LCVR-L** CURV RADIAL LENS LED OR FLUORESCENT

SHOWN WITH FLAT END TREATMENT

The lens provides an elegant, soft glow of direct light to make this direct/indirect luminaire an artistic addition to the Curv Radial family.

### SOFT GLOW OPAL ACRYLIC LENS

- Exceptionally smooth aesthetic
- Excellent for educational applications—will not dislodge from below in a classroom environment



# CURV RADIAL LENS
## LED

### EFFICIENT LIGHTING IN ACTION
FIXTURES 16' ON CENTER

30' x 30' x 10' Room, Reflectance 80/50/20

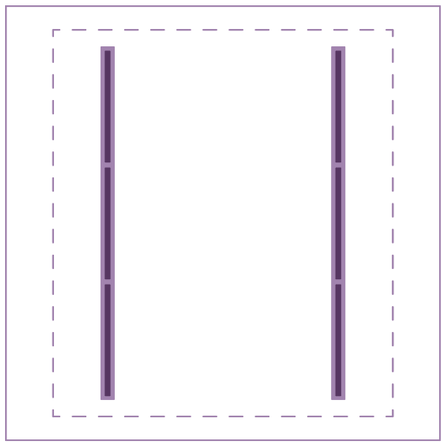
LED ML (4000) Lumen package

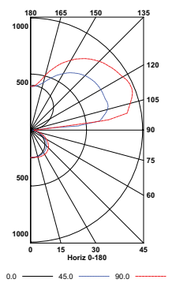
(2) 24' Rows (Quantity 6 of 8' Fixtures), Suspension Length 18"

**RESULTS**

**Avg: 38fc at 2.5' (desk height)**

**Watts per Square Foot: 0.57**






### EFFICIENCY
80% Uplight, 20% Downlight
Radial Lens, Watts 43, Test# 14.00832
Lumens: 4350, Watts 42.9, Efficacy 101

**CODE COMPLIANT ENERGY FOR OFFICE & EDUCATION**

**ASHRAE** 90.1-2007, 2010, and 2013 Whole Building or Space-by-Space Methods
**IECC** 2009 and 2012: Whole Building or Space-by-Space Methods

### PRODUCT AVAILABILITY TABLE

| LED Lumen Package | Nominal Lumens | Nominal Watts | Lumens/ Watts |
|---|---|---|---|
| VW | 3200 | 27 | 119 |
| LW | 4200 | 37 | 114 |
| ML | 5200 | 44 | 118 |
| HL | 6200 | 54 | 115 |
| VL | 7500 | 64 | 117 |

**ORDERING INFORMATION** **EXAMPLE: LCVR-L-8-35HL-CM48-EDU-MW**

**LCVR — L — — — — — U —**

**MODEL**
**LCVR** Curv Radial Lens LED

**ROW LENGTH**
**4** 4' Single
**8** 8' Single
**—** Indicate row length over 8' in 4' increments

**Note:** Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

**LED LUMEN PACKAGE**
**VW** Very Low Watt
**LW** Low Watt
**ML** Medium Lumen
**HL** High Lumen
**VL** Very High Lumen[1]

**MOUNTING METHOD**
**FCM** Fixed Cable Mount
**CM** Adjustable Cable

**DRIVER**
**E** Fixed Output
**ED** 0-10V 1% Dimming 6

**COLOR**
**MW** Matte White (Std.)
**MB** Black
**ZT** ZET Metallic Silver

See Color Selection Guide for other color selections.

**SHIELDING**
**L** Opal Lens

**LED COLOR**
**30** 3000K
**35** 3500K
**40** 4000K
**2750T** 2700K-5000K SpectraSync™ Tunable White
**2765T** 2700K-6500K SpectraSync™ Tunable White

**DISTRIBUTION**
**20** (80% Up, 20% Down)
**40** (60% Up, 40% Down)
**60** (40% Up, 60% Down)
**80** (20% Up, 80% Down)
**100** (0% Up, 100% Down)[1]

**ADJUSTABLE CABLE LENGTH**
**48** 48"
**96** 96"

Other lengths available on request.

**VOLTAGE**
**U** 120V-277V

**OPTIONS**
**AB** A/B Circuitry[1]
**ELL10** Emergency Battery Pack
**ELL10ST** Emergency Battery Pack, Self Testing, Installed[1]
**EMC** One Emergency Circuit[2]
**NLC** One Night Light Circuit[2]
**GTD** Generator Transfer Device[1]
**GLR** Fast Blow Fuse
**DC** Dust Cover
**TBAR** T-Bar Clips
**DS_** Integral Daylight Sensor[1,4]
**OS_** Integral Occupancy Sensor[1,4]
**NX_** NX Distributed Intelligence[1,4]
**SLC** Sloped Ceiling Coupler
**UB** Upper/Lower seperate circuits[1,3]
**DUB** Upper Lower Switching & Dimming Separate Circuits[1,3,5]
**SCE** Sculpted End Cap
**BN** Bull Nose End Cap

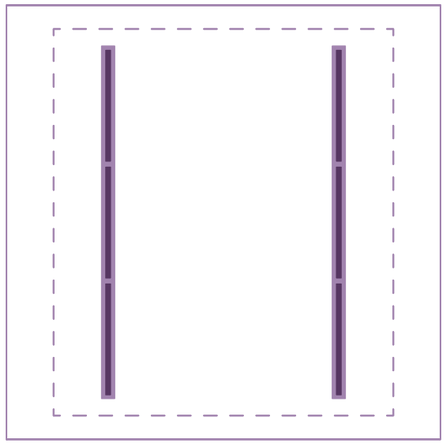
[1] Not available with all configurations. Some limitations apply. Contact factory for details.
[2] One extra feed drop per EMC/NLC. (For through wiring, contact factory).
[3] Optional down light reflector provides approximate patterns. Distribution pattern results may vary.
[4] Review Sensor Options Guide for sensor selection.
[5] Additional feed drop required for low voltage controls.
[6] 5% dimming minimum when SpectraSync selected.





# CURV RADIAL LENS
## FLUORESCENT

### EFFECTIVE LIGHTING
FIXTURES 16' ON CENTER



30' x 30' x 10' Room, Reflectance 80/50/20

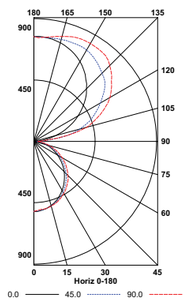
Lens with 2T5 in Cross Section,

(2) 24' Rows (Quantity 6 of 8' Fixtures), Suspension Length 18"

**RESULTS**

**Avg: 42fc at 2.5' (desk height)**

**Watts per Square Foot: 0.83**




### EFFICIENCY 2T5—91.4%
70% Uplight, 30% Downlight
Radial Lens, Watts 62, Test# ITL72475
Lumens: 4754 Watts: 62 Efficacy: 77

**CODE COMPLIANT ENERGY FOR OFFICE & EDUCATION**

**ASHRAE** 90.1-2007, 2010 Whole Building or Space-by-Space Methods
**IECC** 2009 and 2012: Whole Building or Space-by-Space Methods

ALERA LIGHTING
**EXPRESS**

**ORDERING INFORMATION** **EXAMPLE: CVRL-8-2T8-CM48-EU-MW**

**CVRL — — — — — — —**

**MODEL**
**CVRL** Cûrv Radial Opal Acrylic Lens

**MOUNTING METHOD**
**CM** Adjustable Aircraft Cable Mount

**ADJUSTABLE CABLE LENGTH**
**48** 48"
**96** 96"

Other lengths available on request.

**VOLTAGE**
**U** 120V-277V
**120** 120V
**277** 277V
**347** 347V

**COLOR**
**MW** Matte White
**MB** Black
**ZT** ZET Metallic Silver

See Color Selection Guide for other color selections.

**ROW LENGTH**
**4** 4' Single
**8** 8' Single
**—** Indicate row length over 8' in 4' increments

Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

**LAMP TYPE AND PROFILE**
**1T5** One T5 Lamp[1]
**2T5** Two T5 Lamps[1]
**3T5** Three T5 Lamps[1]
**1T5HO** One T5HO Lamp[1]
**2T5HO** Two T5HO Lamps[1]
**3T5HO** Three T5HO Lamps[1]
**1T8** One T8 Lamp
**2T8** Two T8 Lamps
**3T8** Three T8 Lamps

**DISTRIBUTION**
**Blank** (70% Uplight, 30% Downlight
**0/100** 0% Uplight, 100% Downlight[2,6]
**20/80** 20% Uplight, 80% Downlight[2,6]
**40/60** 40% Uplight, 60% Downlight[2,6]
**85/15** 85% Uplight, 15% Downlight[2,6]
**CLC** Center Lamp Cover A/V Mode

**BALLAST**
**E** Electronic, Instant Start, (Std. for T8)
**EP** Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)
**ED** Electronic, Dimming (Must specify)
**ESD** Electronic, Step Dimming
**EDMK7** Electronic Dimming Philips Advance Mark 7 (0-10V)
**EDLUTES** Lutron EcoSystem Digital Dimming Ballast

Unless specified, Alera will use fewest ballasts possible.

**OPTIONS**
**DC** Dust Cover (T8 and T5 with standard distribution)[8]
**SCE** Sculpted End Cap (5 5/16")[8]
**BN** Bull Nose End Cap (5 1/16")[8]
**LR** Left/Right Switching (2-Lamp only)
**IBOB** Inboard/Outboard Switching (3-Lamp only)
**EL** One Emergency Battery Pack[3, 4]
**EMC** One Emergency Circuit[4, 5]
**NLC** Night Light Circuit[4, 5]
**GLR** Fast Blow Fuse
**GMF** Slow Blow Fuse
**TBAR** T-Bar Mounting
**DS_** Integral Daylight Sensor[4,9]
**OS_** Integral Occupancy Sensor[4, 9]

[1] T5/T5HO at risk for socket shadow in downlight component.
[2] Dust cover not available when using these optical distribution covers.
[3] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL).
[4] Not available with all configurations; some limitations apply. Contact factory for details.
[5] One extra feed drop per EMC/NLC. (For through wiring, contact factory.)
[6] Optional distribution covers provide approximate patterns. Distribution pattern results vary according to specific lamp configurations. Contact factory for additional information.
[7] Lutron EcoSystem® series ballast. Contact factory for other Lutron ballasts.
[8] Ships separately.
[9] Review Sensor Options Guide for sensor selection.

# CURV RADIAL BAFFLE
## FLUORESCENT

**Curv Radial Baffle combines an attractive curvature with a solid or perforated baffle to create direct/indirect distribution. A wealth of control options such as Daylight and Occupancy sensors can be combined with this supremely efficient design to reduce power density. CVRB and CVRPB are sure to be top choices for office spaces and educational facilities.**

### CVRB CURV RADIAL BAFFLE

SHOWN WITH FLAT
END TREATMENT



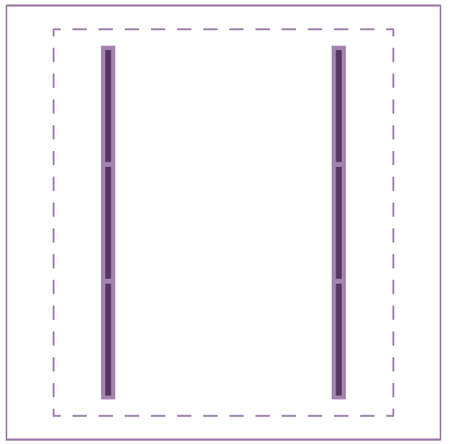
The crisp, clean appearance of solid radial blades adds quiet sophistication to the luminaire housing.





# CURV RADIAL BAFFLE
## FLUORESCENT

### EFFICIENT LIGHTING IN ACTION
FIXTURES 16' ON CENTER



30' x 30' x 10' Room, Reflectance 80/50/20

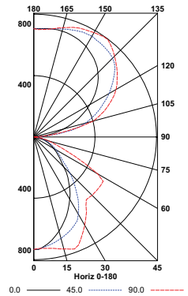
Baffle with 2T5 in Cross Section,

(2) 24' Rows (Quantity 6 of 8' Fixtures), Suspension Length 18"

**RESULTS**

**Avg: 45fc at 2.5' (desk height)**

**Watts per Square Foot: 0.84**




**EFFICIENCY** 2T5—91.8%

70% Uplight, 30% Downlight
Radial Baffle, Watts 62, Test# ITL71711
Lumens: 4774 Watts: 63 Efficacy: 77

**CODE COMPLIANT ENERGY FOR OFFICE & EDUCATION**

**ASHRAE** 90.1-2007, 2010 Whole Building or Space-by-Space Methods
**ASHRAE** 90.1-2013: Space-by-Space Method
**IECC** 2009 and 2012: Whole Building or Space-by-Space Methods

ALERA EXPRESS

**ORDERING INFORMATION** — **EXAMPLE: CVRPB-8-2T8-CM48-EU-MW**

**MODEL**
- **CVRB** Cûrv Radial, Solid Baffle

**ROW LENGTH**
- **4** 4' Single
- **8** 8' Single
- **—** Indicate row length over 8' in 4' increments

**Note:** Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

**LAMP TYPE AND PROFILE**
- **1T5** One T5 Lamp[1]
- **2T5** Two T5 Lamps[1]
- **3T5** Three T5 Lamps[1]
- **1T5HO** One T5HO Lamp[1]
- **2T5HO** Two T5HO Lamps[1]
- **3T5HO** Three T5HO Lamps[1]
- **1T8** One T8 Lamp
- **2T8** Two T8 Lamps
- **3T8** Three T8 Lamps

**MOUNTING METHOD**
- **CM** Adjustable Aircraft Cable Mount

**ADJUSTABLE CABLE LENGTH**
- **48** 48"
- **96** 96"

Other lengths available on request.

**DISTRIBUTION**
- **Blank** (70% Uplight, 30% Downlight
- **0/100** 0% Uplight, 100% Downlight[5,6]
- **20/80** 20% Uplight, 80% Downlight[5,6]
- **40/60** 40% Uplight, 60% Downlight[5,6]
- **85/15** 85% Uplight, 15% Downlight[5,6]
- **CLC** Center Lamp Cover A/V Mode

**BALLAST**
- **E** Electronic, Instant Start, (Std. for T8)
- **EP** Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)
- **ED** Electronic, Dimming (Must specify)
- **ESD** Electronic, Step Dimming
- **EDUADVMK7** Electronic Dimming Philips Advance Mark 7 (0-10V)
- **ED_ADVMK10** Electronic Dimming, Advance Mark10 Powerline
- **EDLUTES** Lutron EcoSystem Digital Dimming Ballast

Unless specified, Alera will use fewest ballasts possible.

**VOLTAGE**
- **U** 120V-277V
- **120** 120V
- **277** 277V
- **347** 347V

**COLOR**
- **MW** Matte White
- **MB** Black
- **ZT** ZET Metallic Silver

RAL and custom colors available upon request. See color selection guide for options.

**OPTIONS**
- **DC** Dust Cover (T8 and T5 with[8] standard distribution)
- **SCE** Sculpted End Cap (5 5/16")[8]
- **BN** Bull Nose End Cap (5 1/16")[8]
- **LR** Left/Right Switching (2-Lamp only)
- **IBOB** Inboard/Outboard Switching (3-Lamp only)
- **EL** One Emergency Battery Pack[2, 3]
- **EMC** One Emergency Circuit[3, 4]
- **NLC** Night Light Circuit[3, 4]
- **GLR** Fast Blow Fuse
- **GMF** Slow Blow Fuse
- **TBAR** T-Bar Mounting
- **DS_** Integral Daylight Sensor[3, 9]
- **OS_** Integral Occupancy Sensor[3, 9]

[1] T5/T5HO at risk for socket shadow in downlight component.
[2] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL).
[3] Not available with all configurations; some limitations apply. Contact factory for details.
[4] One extra feed drop per EMC/NLC. (For through wiring, contact factory.)
[5] Optional distribution covers provide approximate patterns. Distribution pattern results vary according to specific lamp configurations. Contact factory for additional information.
[6] Dust cover not available when using these optical distribution covers.
[7] Lutron EcoSystem® series ballast. Contact factory for other Lutron ballasts.
[8] Ships separately.
[9] Review Sensor Options Guide for sensor selection.

# CURV LOUVERED
## FLUORESCENT

**The Curv Louvered provides soft, even illumination above, below, and around the luminaire. The gently curving sides are enhanced at the center with glowing silver. With control options including daylight sensors or the aesthetically pleasing sculpted/bull nose end caps, CVL is a smart selection for office spaces, banks and educational facilities.**

### CVL CURV RADIAL LOUVERED

SHOWN WITH FLAT
END TREATMENT

The silver louver at the center of the curved housing adds sparkle, performance and versatility to the Curv Radial family.

### TRUE PARABOLIC LOUVER

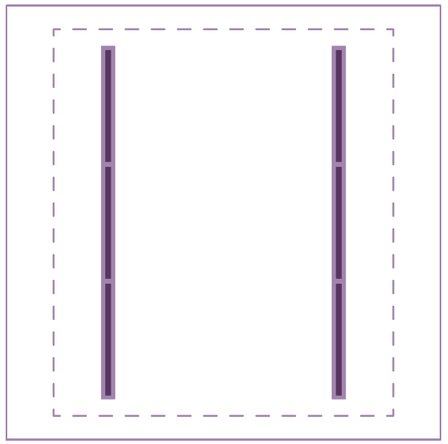
The low iridescent semi-specular or specular parabolic louver restricts light from above the shielding angle, thereby allowing better control of the light distribution and brightness.





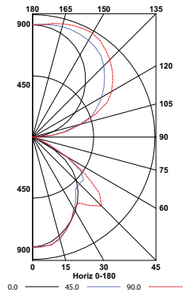
# CURV LOUVERED
## FLUORESCENT

### EFFECTIVE LIGHTING
FIXTURES 16' ON CENTER



30' x 30' x 10' Room, Reflectance 80/50/20
Louver with 2T8 in Cross Section,
(2) 24' Rows (Quantity 6 of 8' Fixtures), Suspension Length 18"

**RESULTS**
Avg: 45fc at 2.5' (desk height)
Watts per Square Foot: 0.77




**EFFICIENCY** 2T8—87%
60% Uplight, 40% Downlight
Louvered, Watts 56, Test#13633
Lumens: 4514 Watts: 58 Efficacy: 78

**CODE COMPLIANT ENERGY FOR OFFICE & EDUCATION**
**ASHRAE** 90.1-2007, 2010, and 2013 Whole Building or Space-by-Space Methods
**IECC** 2009 and 2012: Whole Building or Space-by-Space Methods

ALERA EXPRESS
**ORDERING INFORMATION** **EXAMPLE: CVL-8-2T8-CM48-LD-EU-MW**

**CVL** — — — — — — — —

**MODEL**
- **CVL** Cûrv Louvered

**ROW LENGTH**
- **4** 4' Single
- **8** 8' Single
- **—** Indicate row length over 8' in 4' increments

Note: Rows over 8' will be configured by Alera. Example: 16' will be (2) 8'. Alternate configurations: contact factory.

**LAMP TYPE AND PROFILE**
- **1T5** One T5 Lamp[1]
- **2T5** Two T5 Lamps[1]
- **3T5** Three T5 Lamps[1]
- **1T5HO** One T5HO Lamp[1]
- **2T5HO** Two T5HO Lamps[1]
- **3T5HO** Three T5HO Lamps[1]
- **1T8** One T8 Lamp
- **2T8** Two T8 Lamps
- **3T8** Three T8 Lamps

**MOUNTING METHOD**
- **FCM18** Fixed Aircraft Cable Mount (2-Lamp only)
- **CM** Adjustable Aircraft Cable Mount

**DISTRIBUTION**
- **Blank** 60% Uplight, 40% Downlight
- **0/100** 0% Uplight, 100% Downlight[2]
- **20/80** 20% Uplight, 80% Downlight[2]
- **40/60** 40% Uplight, 60% Downlight[2]
- **85/15** 85% Uplight, 15% Downlight
- **CLC** Center Lamp Cover A/V Mode[2]

**ADJUSTABLE CABLE LENGTH**
- **48** 48"
- **96** 96"

Other lengths available on request.

**SHIELDING**
- **LD** Low Iridescent Semi-Specular Louver (Std.)
- **LS** Low Iridescent Specular Louver
- **GW** White Louver

**BALLAST**
- **E** Electronic, Instant Start, (Std. for T8)
- **EP** Electronic, Programmed Start (Std. for T5 & T5HO, optional for T8)
- **ED** Electronic, Dimming (Must specify)
- **ESD** Electronic, Step Dimming
- **EDUADVMK7** Electronic Dimming Phillips Advance Mark 7 (0-10V)
- **ED_ADVMK10** Electronic Dimming, Advance Mark10 Powerline
- **EDLUTES** Lutron EcoSystem Digital Dimming Ballast

Unless specified, Alera will use fewest ballasts possible.

**VOLTAGE**
- **U** 120V-277V
- **120** 120V
- **277** 277V
- **347** 347V

**COLOR**
- **MW** Matte White
- **MB** Black
- **ZT** ZET Metallic Silver

See Color Selection guide for other options.

**OPTIONS**
- **DC** Dust Cover (T8 and T5 with standard distribution)[8]
- **SCE** Sculpted End Cap (5 5/16")[8]
- **BN** Bull Nose End Cap (5 1/16")[8]
- **LR** Left/Right Switching (2-Lamp only)
- **IBOB** Inboard/Outboard Switching (3-Lamp only)
- **EL** One Emergency Battery Pack[3, 4]
- **EMC** One Emergency Circuit[4, 5]
- **NLC** Night Light Circuit[4, 5]
- **GLR** Fast Blow Fuse
- **GMF** Slow Blow Fuse
- **TBAR** T-Bar Mounting
- **DS_** Integral Daylight Sensor[4, 9]
- **OS_** Integral Occupancy Sensor[4, 9]

[1] T5/T5HO at risk for socket shadow in downlight component.
[2] Dust cover not available when using these optical distribution covers.
[3] Specify voltage. For additional, specify quantity before nomenclature (Example: 2EL).
[4] Not available with all configurations; some limitations apply. Contact factory for details.
[5] One extra feed drop per EMC/NLC. (For through wiring, contact factory).
[6] Optional distribution covers provide approximate patterns. Distribution pattern results vary according to specific lamp configurations. Contact factory for additional information.
[7] Lutron EcoSystem® series ballast. Contact factory for other Lutron ballasts.
[8] Ships separately.
[9] Review Sensor Options Guide for sensor selection.

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