Cooper Lighting
by **E:T•N**

Innovation you can rely on™

Architectural LED Recessed Illumination – built your way

The impact that lighting can have on a space is unlimited. Portfolio LED Recessed lighting adds warmth, highlights areas of interest, and meets a wealth of functional needs. It provides the base upon which to build your interior design, performing without calling attention to itself.

Using Light to Define and Enhance an Architectural Environment

Portfolio LED applies a balance of art and science in the design and engineering of its luminaires. It mingles features, efficacy, superior optical control and color into a quality product that provides comfort and efficiency. Portfolio LED downlights are among the highest efficiency LED luminaires available and can be utilized to create a sustainable lighted environment, and meet federal and state energy savings regulations. Broad product offering can be specified for low or high ceilings in new construction, remodel and retrofit applications. Offered with narrow, medium, wide beam and wall wash reflectors. Designed to enhance any space, with exceptional glare control.

Benefits and features of Portfolio LED

Backed by Eaton's Cooper Lighting business commitment to industry-leading product development and technology innovation, Portfolio LED delivers on the promises of LED technology:

Environmental and Sustainable

By lowering the demand for electricity, power plants can generate less energy and lower the amount of carbon emissions discharged into the environment. LED is mercury free and lead free, eliminating any special handling for proper disposal.

Energy saving

Portfolio LED offers greater than 40% energy savings when compared to compact fluorescent, greater than 50% energy savings when compared to metal halide, and greater than 85% energy savings when compared to incandescent. The highly efficient reflector system combined with quality thermal management allows for exceptional luminaire efficacy resulting in significant output with low energy consumption.

Long life

LEDs are solid-state devices that do not have filaments or glass components that could break. The light source is not susceptible to vibration, thus reducing the risk of premature failure. It is designed to yield 70% lumen maintenance after 50,000 hours of operation with many thousands of hours of operation thereafter. The Portfolio LED is tested to IESNA LM-79 and LM-80 test standards for performance and reliability. The sustainability of Portfolio LED fixtures dramatically reduces maintenance and service costs over traditional sources.

Thermal Management

Proper thermal management of a LED system is critical for high efficiency and long life. Portfolio LED's heat sink features an aluminum construction that runs cooler than traditional lighting. This unique construction results in an extended lifespan, more lumens per watt, and optimal quality of light.

Quick Disconnect

Tool-less replacement of LED module. Modular design allows for quick and easy installation. UL listed for open plenum applications.

Light Control and Visual Comfort

Light emitted from a Portfolio LED downlight is made from a plurality of high brightness white LEDs, producing a quality high lumen light source with reliable color consistency. The LED array combined with a high reflectance upper white reflector and transitional defuse lens produces an even distribution with no pixilation or source brightness.

Optics and Efficiency

Efficient optical control is achieved through computer optimized designs to achieve high luminaire efficiency. Portfolio LED's patented optical system balances source brightness and performance to deliver a system with a smooth beam pattern and visual comfort.

Dimmability

Full range, continuous dimming is standard in all Portfolio LED luminaires and is available down to 1% depending on specified dimming driver. Exceptional performance when paired with Cooper Controls.

powered by fifthlight technology   Greengate energy conservation systems   iLUMIN INTELLIGENT CONTROLS   zero88

Compliances

- ENERGY STAR®
- cULus listed
- RoHS compliant
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED luminaire.

Warranty

Eaton's Cooper Lighting business warrants the Portfolio LED fixtures against defects in material or workmanship for a period of five years from date of original purchase.

High-Performing Optical System

Taking a total systems approach, Portfolio LED downlight components are specifically engineered for the latest in LED technology, ensuring optimal luminaire efficacy and quality performance.

Thermally Optimized

The integrated LED design provides quality thermal conductivity of the LED to the die cast thermal assembly ensuring optimal thermal management and maximum efficacy.

Superior LED

Portfolio's advanced LED system contains a plurality of high brightness white LEDs, producing a quality high lumen light source with reliable color consistency.

Precision Optics

Precisely engineered for use with LED technology, the highly transmissive transitional lens diffuses undesirable source brightness and evenly distributes light across the entire lens.

Visual Comfort

Lower reflectors are designed to provide aesthetically pleasing performance with equal cut-off to lens and lens image, and are available in all of Portfolio's standard finishes.
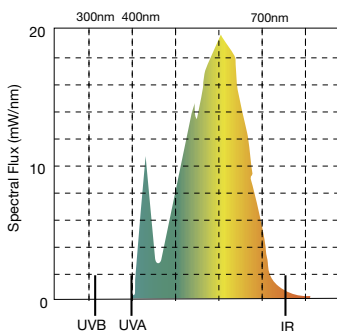
LED - Spectral Distribution and Color

Portfolio LED employs InGaN (Indium Gallium Nitride) semiconductor material devoid of uV with minimal IR wavelengths. The unique engineered plurality of diodes covered with a uniform phosphor coating provides for consistent color uniformity and tight color control even during dimming, exceeding the ANSI C78.377-2011 CCT ranges.
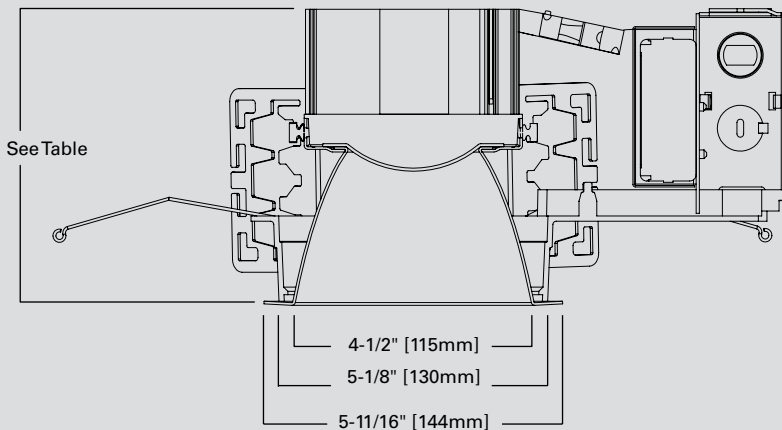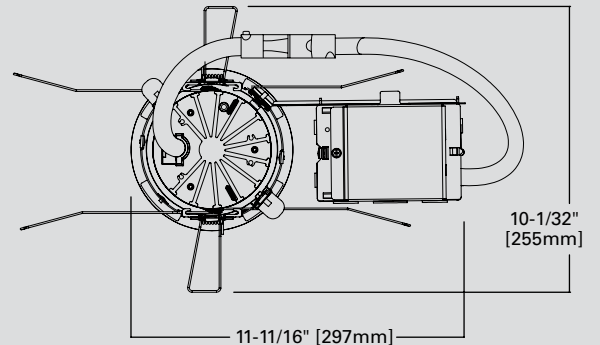
4 Inch

LED Downlight

New construction or remodel Portfolio 4-inch LED downlight specially designed for LED technology features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Lumen packages available in 900-2800 with a choice of 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect allows for tool-less replacement of LED engine. Extruded aluminum heat sink conducts heat away from the LED module for optimal performance and long life. Standard universal voltage (120-277V) dimming driver dims with 0-10V or 120V trailing edge controls making it ideal for remodel applications replacing existing incandescent downlights.

New Construction

See Table

4-1/2" [115mm]
5-1/8" [130mm]
5-11/16" [144mm]

Top View - Remodel

10-1/32" [255mm]
11-11/16" [297mm]

Top View - New Construction

9-13/16" [249mm]
10-3/16" [259mm]

Distribution	Lumens	Height
Narrow	900/1300	5-7/16"
Medium	900/1300	5-11/16"
Wide	900/1300	5-11/16"
Narrow	1800/2800	7-7/16"
Medium	1800/2800	7-11/16"
Wide	1800/2800	7-11/16"

Features and Benefits

- Delivered lumens ranging from 900 to 2800
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, 1% or DMX dimming drivers
- Flexible disconnect for easy LED engine replacement and installation
- Remodel/International plaster ring accommodates up to 1-inch ceiling thickness

- New construction housing features a 1-1/2-inch die-cast aluminum collar to accommodate various ceiling materials
- Extruded aluminum heat sink
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for damp locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:

Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LD4A13D010TE ERM4A13835 4LW1H

Housing	Lumens①	Driver	Options	Power Module	Lumens	CRI	Color
LD4A=4" Aperture **LD4ACP**=4" Aperture, Chicago Plenum **LD4AI**=4" Aperture, International **LD4AR**=4" Aperture, Remodel **LD4ARCP**=4" Aperture, Remodel, Chicago Plenum	**9**=900 Lumens **13**=1300 Lumens **18**=1800 Lumens **28**=2800 Lumens	**D010TE**=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming **D5LT**=Fifth Light® (DALI) Dimming 1-100% **DE010**=1 to 100% Dimming, 120-277V 50/60Hz, 0-10V **DL3**=1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire **DLT**=1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming **DMX**=DMX Dimming 1-100% __900, 1300 and 1800 lumen__ **D010TR**=120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming	**EMBOD**=Bodine® Emergency Module with Remote Test Switch③ **IEMBOD**=Bodine® Emergency Module with Integral Test Switch③④⑤	**ERN4A**=4", For Narrow Beam Reflector **ERM4A**=4", For Medium Beam Reflector **ERW4A**=4", For Wide Beam Reflector	**09**=900 Lumens **13**=1300 Lumens **18**=1800 Lumens **28**=2800 Lumens	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K **27CP**=2700 K, Chicago Plenum **30CP**=3000 K, Chicago Plenum **35CP**=3500 K, Chicago Plenum **40CP**=4000 K, Chicago Plenum

Reflector	Finish	Options	Accessories
__Narrow Beam__ **4LN0**=White Polymer Trim Ring **4LN1**=Self-flanged __Medium Beam__ **4LM0**=White Polymer Trim Ring **4LM0E**=White Polymer Trim Ring, for Integral Emergency④ **4LM1**=Self-flanged **4LM1E**=Self-flanged, for Integral Emergency④ __Wide Beam__ **4LW0**=White Polymer Trim Ring **4LW1**=Self-flanged __Medium Beam Wall Wash__ **4LM110**=Single Wall Wash, Polymer Trim Ring **4LM111**=Single Wall Wash, Self-Flanged **4LM120**=Double Wall Wash, Polymer Trim Ring **4LM121**=Double Wall Wash, Self-flanged __Wide Beam Wall Wash__ **4LW110**=Single Wall Wash, Polymer Trim Ring **4LW111**=Single Wall Wash, Self-flanged **4LW120**=Double Wall Wash, Polymer Trim Ring **4LW121**=Double Wall Wash, Self-flanged	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White __4LM0 and 4LW0 Only__ **BB**=Black Baffle **WB**=White Baffle	__Self-flanged Only__ **WF**=White Painted Flange	**H347**=347 to 120V Step Down Transformer, 75VA **H347200**=347 to 120V Step Down Transformer, 200VA **HSA4**=Slope Adapter for 4" Aperture Housings, Specify Slope⑦ **TRM4P**=Metal Trim Ring, White② **TRM4MB**=Metal Trim Ring, Black② **TRR4**=Rimless Trim Ring② **LGSKT4IP66**=IP66 Gasket Kit⑥ **HB26**=C-channel Bar Hanger, 26" Long, Pair⑦ **HB50**=C-channel Bar Hanger, 50" Long, Pair⑦ **RMB22**=Wood Joist Bar Hanger, 22" Long, Pair⑦

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
② Order trim with polymer trim ring - Consult accessory specification sheet for ordering information and options.
③ Not available with Chicago Plenum.
④ For use in accessible ceiling only.
⑤ Available with select trims.
⑥ Downlight only. Not for wall wash or integral emergency.
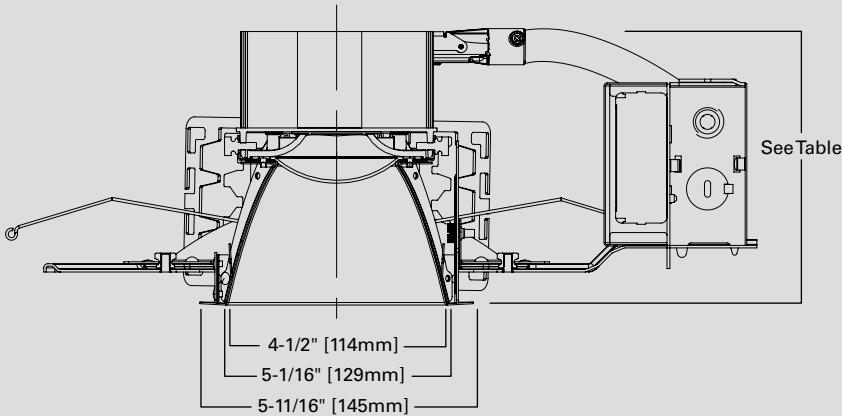⑦ For use with new construction downlights.
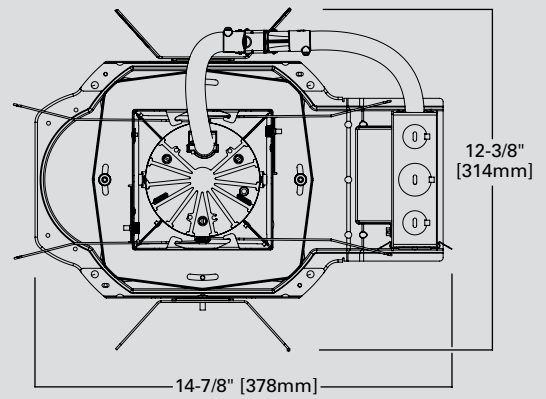
4 Inch

Square LED Downlight

The Portfolio 4-inch LED downlight specially designed for LED technology features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Lumen packages available in 900-2800 with a choice of 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect allows for tool-less replacement of LED engine. Extruded aluminum heat sink conducts heat away from the LED module for optimal performance and long life. Standard universal voltage (120-277V) dimming driver dims with 0-10V or 120V trailing edge controls.

New Construction

4-1/2" [114mm]
5-1/16" [129mm]
5-11/16" [145mm]

See Table

Top View - New Construction

12-3/8" [314mm]
14-7/8" [378mm]

Top View - New Construction with Battery

13-7/8" [352mm]
19-3/4" [502mm]

Lumens	Driver	Height
900/1300	D010TE D010TR DL3 DLT	5-9/16"
900/1300	D5LT DMX DE010	7-9/16"
1800/2000	All	7-9/16"

Features and Benefits

- Delivered lumens ranging from 900 to 2800
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Downlight or lensed wall wash reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, Lutron, DMX or 1% dimming drivers
- Flexible disconnect for easy LED engine replacement and installation
- Aperture rotates +/- 7.5° for precise alignment
- Field-adjustable aperture allows for up to 2-inch vertical adjustment
- J-box with 1/2-inch and 3/4-inch pryouts for eight 12-gauge 90°C connectors
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for wet locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:
Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LDSQ4A13D010TE ESQ4A13835 4LSQ0LI

Housing	Lumens①	Driver	Options	Power Module	CRI	Color
LDSQ4A=4" Square Aperture **LDSQ4ACP**=4" Square Aperture, Chicago Plenum	**9**=900 Lumens **13**=1300 Lumens **18**=1800 Lumens **28**=2800 Lumens	**D010TE**=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming **D5LT**= Fifth Light® (DALI) Dimming 1-100% **DE010**=1 to 100% Dimming, 120-277V 50/60Hz, 0-10V **DL3**=1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire **DLT**=1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming **DMX**=DMX Dimming 1-100% **900, 1300 and 1800 lumen** **D010TR**=120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming	**EMBOD**=Bodine® Emergency Module with Remote Test Switch②	**ESQ4A09**=4", 900 Lumen **ESQ4A13**=4", 1300 Lumen **ESQ4A18**=4", 1800 Lumen **ESQ4A28**=4", 2800 Lumen	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K **27CP**=2700 K, Chicago Plenum **30CP**=3000 K, Chicago Plenum **35CP**=3500 K, Chicago Plenum **40CP**=4000 K, Chicago Plenum

Reflector	Finish	Options	Accessories
4LSQ0=4" Square Reflector Lens Assembly, Polymer Trim Ring **4LSQ1**=4" Square Reflector Lens Assembly, Self-Flanged **4LSQLWW0**=4" Square Lensed Wall Wash, Polymer Trim Ring **4LSQLWW1**=4" Square Lens Wall Wash Reflector, Self-flanged	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White	**IP66**=IP66 Gasket **Self-flanged Only** **WF**=White Painted Flange	**H347**=347 to 120V Step Down Transformer, 75VA **H347200**=347 to 120V Step Down Transformer, 200VA **HB26**=C-channel Bar Hanger, 26" Long, Pair **HB50**=C-channel Bar Hanger, 50" Long, Pair **RMB22**=Wood Joist Bar Hanger, 22" Long, Pair

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
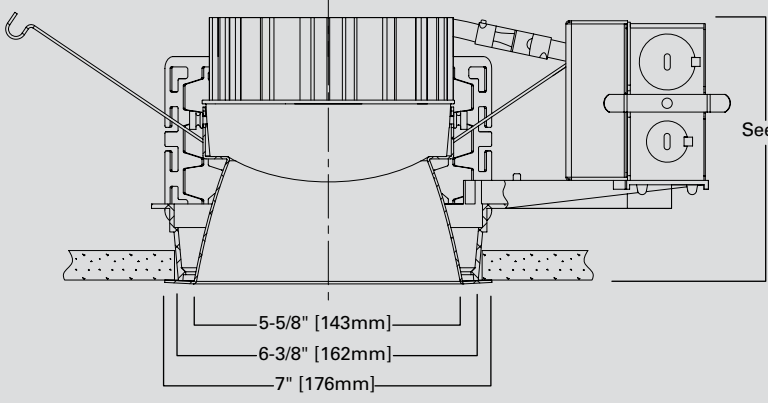② Not available with Chicago Plenum.

6
Inch

LED Downlight

New construction or remodel Portfolio 6-inch LED downlight specially designed for LED technology features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Lumen packages available in 1000-3000 with a choice of 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect capability allows for tool-less replacement of LED engine. Extruded aluminum heat sink conducts heat away from the LED module for optimal performance and long life. Standard universal voltage (120-277V) dimming driver dims with 0-10V or 120V trailing edge controls making it ideal for remodel applications replacing existing incandescent downlights.

New Construction

Top View - New Construction

See Table

11-1/8" [281mm]

12-1/4" [312mm]

5-5/8" [143mm]
6-3/8" [162mm]
7" [176mm]
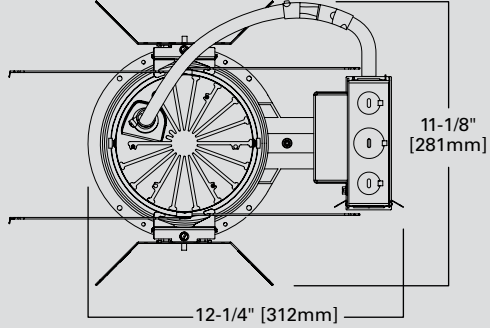
Top View - Remodel/International
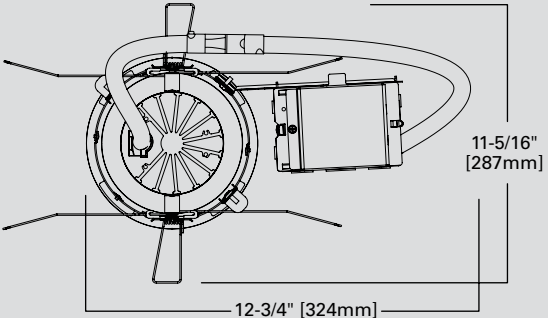
11-5/16" [287mm]

12-3/4" [324mm]

Distribution	Lumens	Height
Narrow	1000/1500	6-3/16"
Medium	1000/1500	6-9/16"
Wide	1000/1500	5-5/8"
Narrow	2000/3000	8-3/16"
Medium	2000/3000	8-9/16"
Wide	2000/3000	6-1/2"

Features and Benefits

- Delivered lumens ranging from 1000 to 3000
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, 1% or DMX dimming drivers
- Flexible disconnect for easy LED engine replacement and installation
- Remodel plaster ring accommodates up to 1-inch ceiling thickness

- New construction housing features a 1-1/2-inch die-cast aluminum collar to accommodate various ceiling materials
- Extruded aluminum heat sink
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for damp locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:

Order Housing, Power Module, Trim and Accessories Separately

SAMPLE NUMBER: LD6A15D010TE ERM6A15835 4LW1H

Housing	Lumens①	Driver	Options	Power Module	Lumens①	CRI	Color
LD6A=6" Aperture, New Construction **LD6ACP**=6" Aperture, New Construction, Chicago Plenum **LD6AI**=6" Aperture, International **LD6AR**=6" Aperture, Remodel **LD6ARCP**=6" Aperture, Remodel, Chicago Plenum	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens **30**=3000 Lumens	**1000, 1500, 2000 and 3000 lumen** **D010TE**=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming **D5lt**=Fifth Light® (DALI) Dimming **DI3**=1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3-Wire **Dlt**=1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming **Dmx**=DMX Dimming 1 to 100% **DE010**=120-277V 0-10V 1% Dimming **1000, 1500 and 2000 lumen** **D010TR**=120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming	**EMBOD**=Bodine® Emergency Module with Remote Test Switch② **IEMBOD**=Bodine® Emergency Module with Integral Test Switch②③	**ERW6A**=6", For Wide Beam Reflector **ERM6A**=6", For Medium Beam Reflector **ERN6A**=6", For Narrow Beam Reflector	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens **30**=3000 Lumens	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K **27CP**=2700 K, Chicago Plenum **30CP**=3000 K, Chicago plenum **35CP**=3500 K, Chicago Plenum **40CP**=4000 K, Chicago Plenum

Reflector	Finish	Options	Accessories
Narrow Beam **6LN0**=White Polymer Trim Ring **6LN0E**=White Polymer Trim Ring, for Integral Emergency **6LN1**=Self-flanged **6LN1E**=Self-flanged, for Integral Emergency **Medium Beam** **6LM0**=White Polymer Trim Ring **6LM0E**=White Polymer Trim Ring, for Integral Emergency **6LM1**=Self-flanged **6LM1E**=Self-flanged, for Integral Emergency **Wide Beam** **6LW0**=White Polymer Trim Ring **6LW1**=Self-flanged **Medium Beam Wall Wash** **6LM110**=Single Wall Wash, Polymer Trim Ring **6LM111**=Single Wall Wash, Self-Flanged **6LM120**=Double Wall Wash, Polymer Trim Ring **6LM121**=Double Wall Wash, Self-flanged **Wide Beam Wall Wash** **6LW110**=Single Wall Wash, Polymer Trim Ring **6LW111**=Single Wall Wash, Self-flanged **6LW120**=Double Wall Wash, Polymer Trim Ring **6LW121**=Double Wall Wash, Self-flanged	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White **6LM0 and 6LW0 Only** **BB**=Black Baffle **WB**=White Baffle	**Self-flanged Only** **WF**=White Painted Flange	**H347**=347 to 120V Step Down Transformer, 75VA **H347200**=347 to 120V Step Down Transformer, 200VA **HSA6**=Slope Adapter for 6" Aperture Housings, Specify Slope⑥⑦ **TRM6P**=Metal Trim Ring, White④ **TRM6MB**=Metal Trim Ring, Black④ **TRR6**=Rimless Trim Ring④ **DT6**=Deco trim Ring④⑦ **HB26**=C-channel Bar Hanger, 26" Long, Pair⑦ **HB50**=C-channel Bar Hanger, 50" Long, Pair⑦ **LGSKT6IP66**=IP66 Gasket Kit③ **RMB22**=Wood Joist Bar Hanger, 22" Long, Pair⑦

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
② Not available with Chicago Plenum.
③ Downlight only. Not for wall wash or integral emergency.
④ Order trim with polymer trim ring. Consult specification sheet for color ordering information and options.
⑤ Available with select trims.
⑥ Consult accessory specification sheet for ordering information and options.
⑦ For use with new construction downlights.
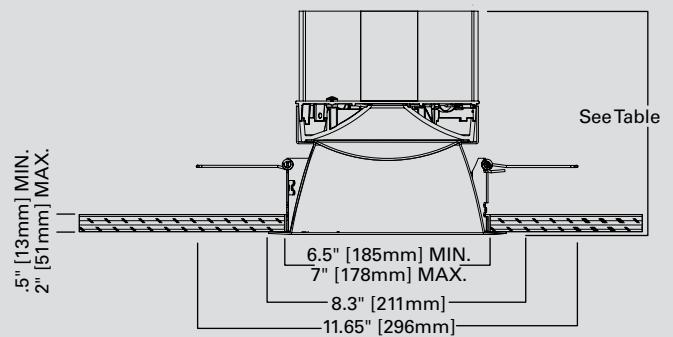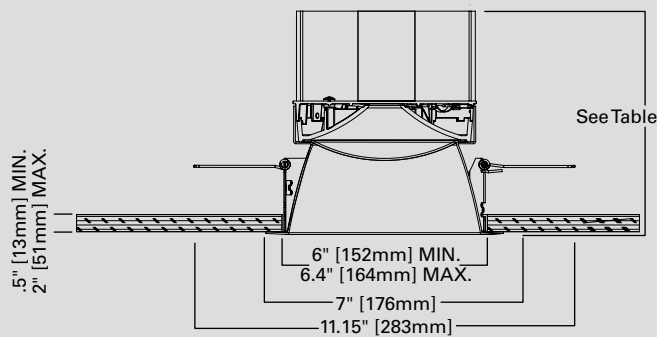
6 Inch

LED Retrofit

Offered in multiple outputs up to 3000 lumens, the retrofit kit converts existing 6-inch HID, incandescent and compact fluorescent downlights to energy-saving LED. Specially designed for LED technology this retrofit features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Available in 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect capability allows for tool-less replacement of LED engine. Standard universal voltage (120-277V) dimming driver dims with 0-10V or 120V trailing edge controls making it ideal for retrofit applications replacing existing high energy consuming downlights.

LD6ART installs in ceiling openings from 6" to 6-7/16"

Housing Compatibility LD6ART, LD67ART*					
Manufr.	Series	Nom. Size	Housing Aperture	Housing Catalog #	Retrofit Kit
Cooper®	Portfolio	6	6.00	C6, MD6, H760, HD6, MLW6, LD6	LD6ART
Cooper®	PDS	6	6.00	PD6	
Philips™	Omega	6	6.25	OM6	
Philips™	Lightolier Calculite	6	6.31	S6, C6, B600	
Philips™	Capri	6	6.43	CM6	
Juno®	Indy Performance Series (Elate)	6	6.56	A6, C6, M6	LD67ART
Juno®		6	6.56	CH6, CV6, MX6, TC906	
Lithonia®	Commercial	6	6.75	LF6, LP6	
Philips™	Lightolier Lyte-caster	6	6.75	1102	
Lithonia®	Gotham	6	6.75	AF and LG	
Cooper®	Portfolio CFL (New)	6	6.75	CD6	
Cooper®	Halo	7	6.87	M700, H600, H803E	
Philips™	Lightolier Calculite	7	7.50	S7 and CS7	
Cooper®	Portfolio	7	7.70	C7, CLW7, HD7, MD7	LD67ART
Juno®	Indy Performance Series (Elate)	8	7.81	A8, C8, M8	

.5" [13mm] MIN. 2" [51mm] MAX. — See Table
6" [152mm] MIN.
6.4" [164mm] MAX.
7" [176mm]
11.15" [283mm]

.5" [13mm] MIN. 2" [51mm] MAX. — See Table
6.5" [185mm] MIN.
7" [178mm] MAX.
8.3" [211mm]
11.65" [296mm]

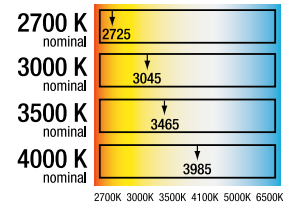| Distribution	Lumens	Height
Narrow	1000/1500	6-3/16"
Medium	1000/1500	6-9/16"
Wide	1000/1500	5-5/8"
Narrow	2000/3000	8-3/16"
Medium	2000/3000	8-9/16"
Wide	2000/3000	6-1/2"

3.9" [99mm]
13" [328mm]
21.3" [540mm]
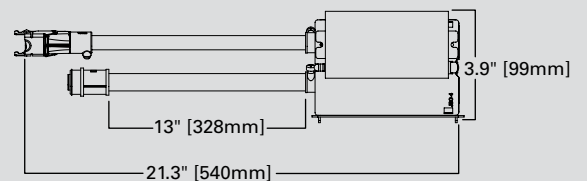
*Juno®, Lithonia Lighting®, Philips™ Lighting and their product brand names, where identified above, are tradenames or trademarks of each respective company and Cooper Lighting by Eaton makes no representations on these trademarks.

Features and Benefits

- Delivered lumens ranging from 1000 to 3000
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, 1% or DMX dimming drivers
- Flexible disconnect for easy LED engine replacement and installation

- Galvanized steel ring installs with 2 mouse trap springs for secure installation. Ring accommodates up to 2-inch ceiling thickness
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for damp locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential
Lighting Controls requirements as a LED Luminaire

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:

Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LD6ART15D010TE ERM6A15835 6LM0LI

Housing	Lumens①	Driver	Options	Power Module	Lumens①	CRI
Ceiling Openings 6-1/2" to 7" **LD67ART**=6" Aperture LED Downlight Retrofit **LD67ARTCP**=6" Aperture LED Downlight Retrofit, Chicago Plenum, includes adapter **Ceiling Openings 6" to 6-7/16"** **LD6ART**=6" Aperture LED Downlight Retrofit **LD6ARTCP**=6" Aperture LED Downlight Retrofit, Chicago Plenum	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens **30**=3000 Lumens	**1000, 1500, 2000 AND 3000 LUMEN** **D010TE**=120-277V 0-10V 10%Dimming or Trailing Edge 120V Dimming **D5LT**=Fifth Light® (DALI) Dimming **DL3**=1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3-Wire **DLT**=1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming **DMX**=DMX Dimming **DE010**=120-277V 0-10V 1% Dimming **1000, 1500 AND 2000 Lumen** **D010TR**=0-10V 10% Dimming of 120V Leading Edge	**EMBOD**=Bodine® Emergency Module with Remote Test Switch②	**ERW6A**=6", For Wide Beam Reflector **ERM6A**=6", For Medium Beam Reflector **ERN6A**=6", For Narrow Beam Reflector	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens **30**=3000 Lumens	**8**=80 **9**=90

Color	Reflector	Finish	Options	Accessories
27=2700 K **30**=3000 K **35**=3500 K **40**=4000 K **27CP**=2700 K, Chicago Plenum **30CP**=3000 K, Chicago Plenum **35CP**=3500 K, Chicago Plenum **40CP**=4000 K, Chicago Plenum	**Narrow Beam** **6LN0**=White Polymer Trim Ring **6LN1**=Narrow Beam Reflector with Self-flange **Medium Beam** **6LM0**=White Polymer Trim Ring **6LM1**=White Polymer Trim Ring **Wide Beam** **6LW0**=White Polymer Trim Ring **6LW1**=Self-flange **Wall Wash (LD67ART only)** **6LW110**=White Polymer Trim Ring **6LW111**=Self-flange	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White **6LM0 and 6LW0 Only** **BB**=Black Baffle **WB**=White Baffle	**Self-flanged Only** **WF**=White Painted Flange	**LGSKT6IP66**=IP66 Gasket Kit **ABR7P**=Remodel Adapter Ring for 8" OD **ABR8P**=Remodel Adapter Ring for 9" OD

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
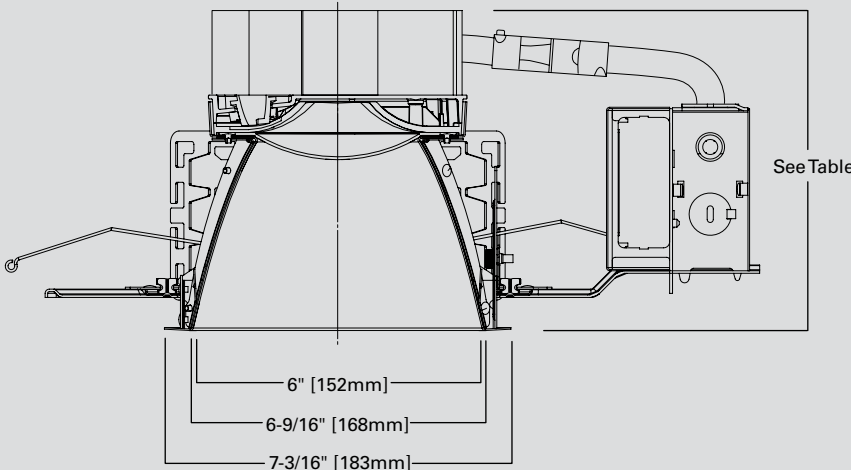② Not available with Chicago Plenum.
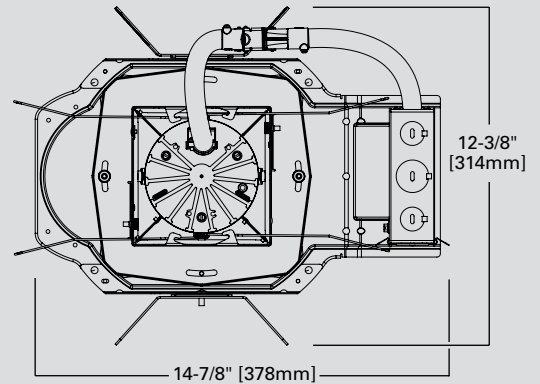
Square LED Downlight

The Portfolio 6-inch LED downlight specially designed for LED technology features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Lumen packages available in 1000-3000 with a choice of 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect allows for tool-less replacement of LED engine. Extruded aluminum heat sink conducts heat away from the LED module for optimal performance and long life. Standard universal voltage (120-277V) dimming driver dims with 0-10V or 120V trailing edge controls.

New Construction

See Table

6" [152mm]

6-9/16" [168mm]

7-3/16" [183mm]

Top View - New Construction

12-3/8" [314mm]

14-7/8" [378mm]

Top View - New Construction with Battery

13-7/8" [352mm]

19-3/4" [502mm]

Lumens	Driver	Height
1000/1500	D010TE D010TR DL3 DLT	6-5/8"
1000/1500	D5LT DMX DE010	7-1/2"
2000/3000	All	7-1/2"

Features and Benefits

- Delivered lumens ranging from 1000 to 3000
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Downlight or lensed wall wash reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, 1% or DMX dimming drivers
- Flexible disconnect for easy LED engine replacement and installation
- Aperture rotates +/- 7.5° for precise alignment

- Field-adjustable aperture allows for up to 2-inch vertical adjustment
- J-box with 1/2-inch and 3/4-inch pryouts for eight 12-gauge 90°C connectors
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for wet locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:

Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LDSQ6A15D010TE ESQ6A13835 6LSQ0LI

Housing	Lumens①	Driver	Options	Power Module	CRI	Color
LDSQ6A=6" Square Aperture **LDSQ6ACP**=6" Square Aperture, Chicago Plenum	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens **30**=3000 Lumens	**D010TE**=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming **D5LT**= Fifth Light® (DALI) Dimming 1-100% **DE010**=1 to 100% Dimming, 120-277V 50/60Hz, 0-10V **DL3**=1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire **DLT**=1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming **DMX**=DMX Dimming 1-100% **1000, 1500 and 2000 lumen** **D010TR**=120-277V 0-10V 10% Dimming or Leading Edge 120V Dimming	**EMBOD**=Bodine® Emergency Module with Remote Test Switch②	**ESQ6A10**=6", 1000 Lumen **ESQ6A15**=6", 1500 Lumen **ESQ6A20**=6", 2000 Lumen **ESQ6A30**=6", 3000 Lumen	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K **27CP**=2700 K, Chicago Plenum **30CP**=3000 K, Chicago Plenum **35CP**=3500 K, Chicago Plenum **40CP**=4000 K, Chicago Plenum

Reflector	Finish	Options	Accessories
6LSQ0=6" Square Reflector Lens Assembly, Polymer Trim Ring **6LSQ1**=6" Square Reflector Lens Assembly, Self-Flanged **6LSQLWW0**=6" Square Lensed Wall Wash, Polymer Trim Ring **6LSQLWW1**=6" Square Lensed Wall Wash Reflector, Self-flanged	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White	<u>**Self-flanged Only**</u> **WF**=White Painted Flange	**H347**=347 to 120V Step Down Transformer, 75VA **H347200**=347 to 120V Step Down Transformer, 200VA **HB26**=C-channel Bar Hanger, 26" Long, Pair **HB50**=C-channel Bar Hanger, 50" Long, Pair **RMB22**=Wood Joist Bar Hanger, 22" Long Pair **IP66**=IP66 Gasket

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
② Not available with Chicago Plenum.

8 Inch

LED Downlight

The Portfolio 8-inch LED downlight specially designed for LED technology features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Lumen packages available in 3000-6500 with a choice of 2700K, 3000K, 3500K and 4000K. color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect allows for tool-less replacement of LED engine. Forged aluminum heat sink conducts heat away from the LED module for optimal performance and long life. Standard dimming driver dims with 0-10V or 120V trailing edge controls.

New Construction

8-3/8" [213mm]

9-3/8" [238mm]

9-3/4" [248mm]

See Table
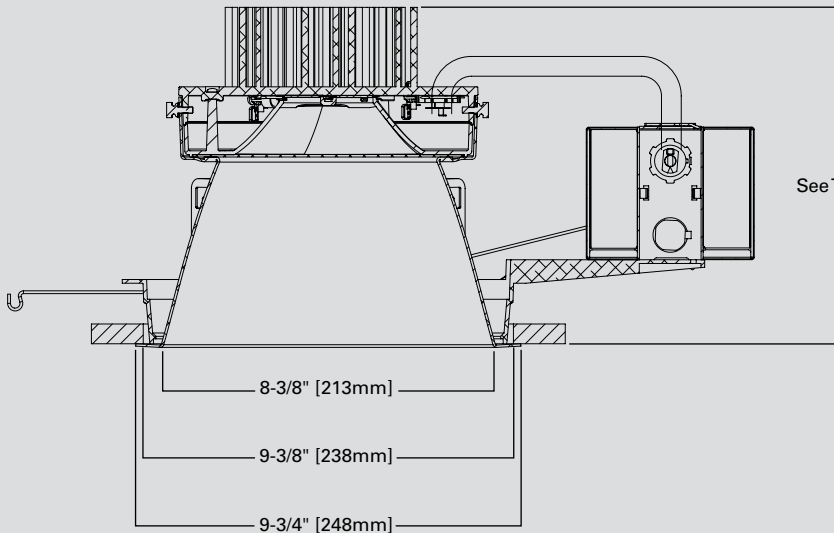
Distribution	Height
Narrow	9-1/16"
Medium	8-5/8"
Wide	7-7/8"

Top View - New Construction
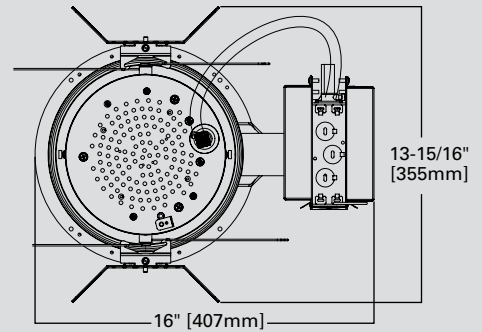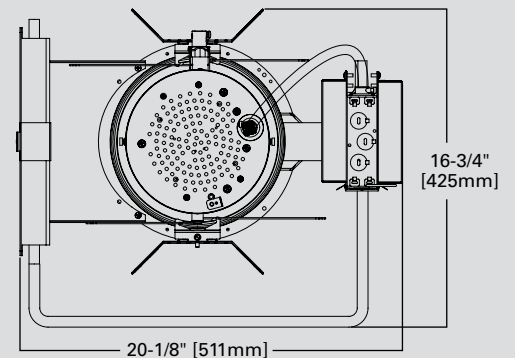
13-15/16" [355mm]

16" [407mm]

Top View - New Construction with Battery

16-3/4" [425mm]

20-1/8" [511mm]

Features and Benefits

- Delivered lumens ranging from 3000 to 6500
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, 1% or DMX dimming drivers
- Flexible disconnect for easy LED engine replacement and installation

- Housing features a 1-1/2-inch die-cast aluminum collar accommodates various ceiling materials
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for damp locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire
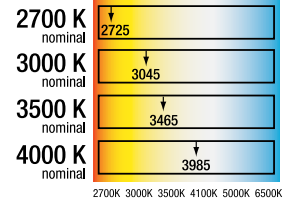
2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:

Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LD8A401D5LT ER8A835 8LW1LI

Housing	Lumens[①]	Voltage	Driver	Options	Power Module	CRI	Color
LD8A=8" Aperture LED Downlight **LD8ACP**=8" Aperture LED Downlight, Chicago Plenum	**30**=3000 Lumens **40**=4000 Lumens **50**=5000 Lumens **60**=6000 Lumens **65**=6500 Lumens	**1**=120V **2**=277V	**3000, 4000, 5000 and 6000 Lumen** **D010TE**=0-10V 10% Dimming or Trailing Edge 120V Dimming **D5LT**=Fifth Light® (DALI) Dimming 1-100% **DL3**=1 to 100% Dimming Lutron® Hi-Lume, Ecosystem or 3-Wire **DMX**=DMX Dimming 1-100% **DE010**=0-10V 1% Dimming **4000, 5000 and 6000 Lumen** **D010TR**=0-10V 10% Dimming or Leading Edge 120V Dimming **6500 Lumen** **D010**=0-10V Dimming **DE010**=0-10V 1% Dimming	**EMBOD**=Bodine® Emergency Module with Remote Test Switch[②] **IEMBOD**=Bodine® Emergency Module with Integral Test Switch[②③④]	**ER8A30**=8", 3000 Lumen **ER8A40**=8", 4000 Lumen **ER8A50**=8", 5000 Lumen **ER8A60**=8", 6000 Lumen **ER8A65**=8", 6500 Lumen **ER8ACP30**=8", 3000 Lumen, Chicago Plenum **ER8ACP40**=8", 4000 Lumen, Chicago Plenum **ER8ACP50**=8", 5000 Lumen, Chicago Plenum **ER8ACP60**=8", 6000 Lumen, Chicago Plenum **ER8ACP65**=8", 6500 Lumen, Chicago Plenum	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K

Reflector	Finish	Options	Accessories
Narrow Beam **8LN0**=White Polymer Trim Ring **8LN1**=Self Flange **8LN0E**=White Polymer Trim Ring, for Integral Emergency **8LN1E**=Self Flange, for Integral Emergency **Medium Beam** **8LM0**=White Polymer Trim Ring **8LM1**=Self Flange **8LM0E**=White Polymer Trim Ring, for Integral Emergency **8LM1E**=Self Flange, for Integral Emergency **Wide Beam** **8LW0**=White Polymer Trim Ring **8LW1**=Self Flange **8LW0E**=White Polymer Trim Ring, for Integral Emergency **8LW1E**=Self Flange, for Integral Emergency **Wall Wash** **8LW110**= Single Wall Wash, White Polymer Trim Ring **8LW111**=Single Wall Wash, Self Flange **8LW120**= Double Wall Wash, White Polymer Trim Ring **8LW121**= Double Wall Wash, Self Flange	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White **8LM0 Only** **BB**=Black Baffle **WB**=White Baffle	**Self-flanged Only** **WF**=White Painted Flange	**H347**=347 to 120V Step Down Transformer, 75VA **H347200**=347 to 120V Step Down Transformer, 200VA **HB26**=C- Channel Bar Hangers, 26" Long, Pair **HB50**=C- Channel Bar Hangers, 50" Long, Pair **RMB22**=Wood joist Bar Hanger, 22" Long, Pair **LGSKT8IP65**=IP65 Gasket Kit **HSA8**=Slope Adapter for 8" Aperture Housings, Specify Slope[④]

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
② Not available with Chicago Plenum.
③ Available with select trims.
④ Consult accessory specification sheet for ordering information.
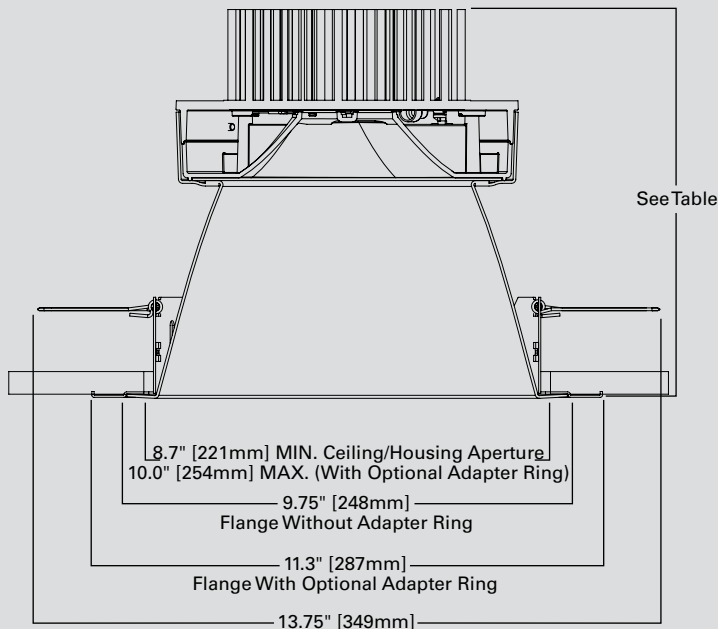
8 Inch

LED Retrofit

Offered in multiple outputs up to 6500 lumens, the retrofit kit converts existing 8-inch HID, incandescent and compact fluorescent downlights to energy-saving LED. Specially designed for LED technology this retrofit features a two stage diffused optical system providing superior light control and low aperture brightness. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Available in 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect capability allows for tool-less replacement of LED engine. Forged aluminum heat sink conducts heat away from the LED module for optimal performance and long life. Standard dimming driver dims with 0-10V or 120V trailing edge controls making it ideal for retrofit applications replacing existing high energy consuming downlights.

Installs in ceiling openings from 8.7" to 10" with optional adapter ring

Housing Compatibility LD8ART*

Manufr.	Series	Nom. Size	Housing Aperture	Housing Catalog #	Retrofit Kit	Adaptor Ring
Juno®	Indy Performance Series (Elate)	8	7.81	A8, C8, M8	LD8ART	None
Juno®		8	8.18	MX8 and TC908		
Lithonia®	Gotham	8	8.56	GRSF		
Lithonia®	Commercial	8	8.56	LF8, LP8		
Cooper®	Portfolio	8	8.73	C8042E		
Philips™	Lightolier Calculite	8	8.75	S8		
Philips™	Capri	8	8.87	CM8		
Cooper®	PDS	8	8.87	PD8		
Juno®		9	8.93	C9H		
Juno®	Indy Performance Series (Elate)	9	9.00	C9 and M9		
Juno®	Indy Performance Series (Elate)	10	9.87	M10	LD8ART	ABR10 (accessory)
Cooper®	Portfolio	9	10.00	C9242E		
Lithonia®	Gotham	10	10.12	GRSF		
Lithonia®	Gotham	10	10.12	AF, LGF, LGH, AH, A		
Lithonia®	Gotham	10	10.25	GRSH		

Distribution	Lumens	Height
Narrow	**3000/6500**	9-1/16"
Medium	**3000/6500**	8-5/8"
Wide	**3000/6500**	7-7/8"

See Table

8.7" [221mm] MIN. Ceiling/Housing Aperture
10.0" [254mm] MAX. (With Optional Adapter Ring)
9.75" [248mm]
Flange Without Adapter Ring
11.3" [287mm]
Flange With Optional Adapter Ring
13.75" [349mm]

Features and Benefits

- Delivered lumens ranging from 3000 to 6500
- Color variation within 3-step MacAdam ellipses
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Lumen maintenance of L70 at 50,000 hours
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light, 1% or DMX dimming drivers
- Flexible disconnect for easy LED engine replacement and installation

- Galvanized steel ring installs with 2 mouse trap springs for secure installation. Ring accommodates up to 2-inch ceiling thickness.
- 5 year warranty
- ENERGY STAR® qualified with select trims and CCT
- Downlights are cULus listed for wet locations
- Wall wash are cULus listed for damp locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with
- LM 80 standards

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K
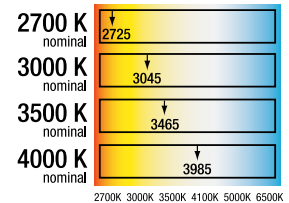
Ordering Information:
Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LD8ART501D010TE ER8A50835 8LM0LI

Housing	Lumens①	Voltage	Driver	Options	Power Module	CRI	Color
LD8ART=8" Aperture LED Downlight Retrofit **LD8ARTCP**=8" Aperture LED Downlight Retrofit, Chicago Plenum	**30**=3000 Lumens **40**=4000 Lumens **50**=5000 Lumens **60**=6000 Lumens **65**=6500 Lumens	**1**=120V **2**=277V	**3000, 4000, 5000 and 6000 Lumen** **D010TE**=0-10V 10% Dimming or Trailing Edge 120V Dimming **D5LT**=Fifth Light® (DALI) Dimming 1-100% **DL3**=1 to 100% Dimming Lutron® Hi-Lume, Ecosystem or 3-Wire **DMX**=DMX Dimming 1-100% **DE010**=0-10V 1% Dimming **4000, 5000 and 6000 Lumen** **D010TR**=0-10V 10% Dimming or Leading Edge 120V Dimming **6500 Lumen** **D010**=0-10V Dimming **DE010**=1 to 100% Dimming, 50/60Hz, 0-10V	**EMBOD**=Bodine® Emergency Module with Remote Test Switch ②	**ER8A30**=8", 3000 Lumen **ER8A40**=8", 4000 Lumen **ER8A50**=8", 5000 Lumen **ER8A60**=8", 6000 Lumen **ER8A65**=8", 6500 Lumen **ER8ACP30**=8", 3000 Lumen, Chicago Plenum **ER8ACP40**=8", 4000 Lumen, Chicago Plenum **ER8ACP50**=8", 5000 Lumen, Chicago Plenum **ER8ACP60**=8", 6000 Lumen, Chicago Plenum **ER8ACP65**=8", 6500 Lumen, Chicago Plenum	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K

Reflector	Finish	Options	Accessories
Narrow Beam **8LN0**=Polymer Trim Ring **8LN1**=Self-flange② **Medium Beam** **8LM0**=White Polymer Trim Ring **8LM1**=White Polymer Trim Ring **Wide Beam** **8LW0**=White Polymer Trim Ring **8LW1**=Self-flange③ **Wall Wash** **8LW110**= Single Wall Wash, White Polymer Trim Ring **8LW111**=Single Wall Wash, Self-flange③ **8LW120**=Double Wall Wash, White Polymer Trim Ring **8LW121**=Double Wall Wash, Self-flange	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White **8LM0 Only** **BB**=Black Baffle **WB**=White Baffle	**Self-flanged Only** **WF**=White Painted Flange	**LGSKT8IP65**=IP65 Gasket Kit **ABR10P**=Oversize Trim Ring for Max 10" Ceiling Opening-11.3 Flange

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
    ② Not available with Chicago Plenum.
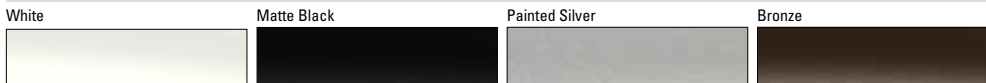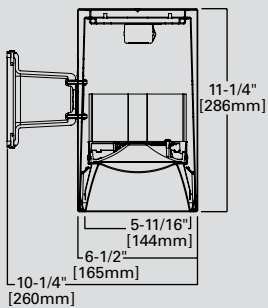   ③ Damp location listed.

LED Cylinders

Portfolio 6-inch LED cylinders are designed to compliment any space. The standard driver is dimmable with 0-10V or trailing edge, making it ideal for replacing existing incandescent cylinders with LED. Offered in wall mount or ceiling mount with optional pendant and aircraft cable kits in a variety of finishes. Diffused optical system provides superior light control and low aperture brightness while delivering over 80 lm/W. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. The cylinder is available in lumen packages ranging from 1000-2000 lumens with a choice of 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect capability allows for tool-less replacement of LED engine. The cylinders are universal voltage (120-277V).

Finish

White | Matte Black | Painted Silver | Bronze

Wall Mount

11-1/4"
[286mm]

5-11/16"
[144mm]
6-1/2"
[165mm]
10-1/4"
[260mm]

Surface Mount

12-1/8"
[308mm]
(LCR6A)

11-3/4"
[299mm]
(LCSQ6A)

5-11/16"
[144mm]
6-1/2"
[165mm]

Pendant Mount

12-1/4"
[310mm]

5-7/8"
[150mm]
6-11/12"
[176mm]

Aircraft Mount

12-1/4"
[310mm]

5-7/8"
[150mm]
6-11/12"
[176mm]

Up/Down Wall Mount

23-5/16"
[592mm]

5-11/16"
[144mm]
6-1/2"
[165mm]
10-1/4"
[260mm]

19
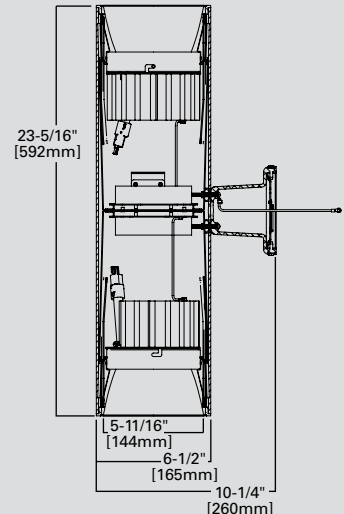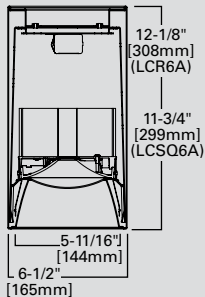
Features and Benefits

- Delivered lumens ranging from 1000 to 2000
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light or 1% dimming drivers

- Three part system with flexible disconnect for easy LED engine replacement and installation
- Surface ceiling, pendant, wall mount or up/down wall mount
- Matte white, black, bronze or silver paint finish
- Optional stem mount or aircraft cable
- cULus listed for wet locations
- Photometric testing completed in accordance with IES LM 79 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire
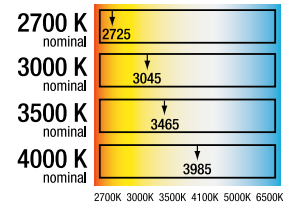
2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:
Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LCR6A15D010TEP ERCM6A15835 6LM0LI

Housing	Lumens[1]	Driver	Cylinder Finish	Power Module	Lumens	CRI	Color
LCR6A=6" Surface Mount, Cylinder **LCRWM6A**=6" Wall Mount Cylinder **LCRWMUD6A**=6" Wall Mount Up/Down, Cylinder[2] **Square** **LCSQ6A**=6" Surface Mount, Square **LCSQWM6A**=6" Wall Mount, Square **LCSQWMUD6A**=6" Wall Mount Up/Down, Square[2]	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens	**1000, 1500, or 2000 Lumen** **D010TE**=120-277V 0-10V 10% Dimming or Trailing Edge 120V Dimming **DL3**=1 to 100% Dimming, 120-277V Lutron® Hi-Lume, Ecosystem or 3 Wire **DLT**=1 to 100% Dimming, 120V Lutron® Hi-Lume Forward Phase Dimming **1000 or 1500 Lumen** **D5LT**=Fifth Light® (DALI) Dimming **DE010**=120-277V 0-10V 1% Dimming	**P**=White **MB**=Matte Black **SL**=Painted Silver **BZ**=Bronze	**ERCN6A**=6", For Narrow Beam Reflector **ERCM6A**=6", For Medium Beam Reflector **ERCW6A**=6", For Wide Beam Reflector	**10**=1000 Lumens **15**=1500 Lumens **20**=2000 Lumens	**8**=80 **9**=90	**27**=2700° K **30**=3000° K **35**=3500° K **40**=4000° K

Reflector	Finish	Accessories	
Narrow Beam **6LN0**=6" Narrow Reflector **Medium Beam** **6LM0**=6" Medium Reflector **Wide Beam** **6LW0**=6" Wide Reflector **Medium Beam Wall Wash** **6LM110**=6" Medium Reflector, Wall Wash **Wide Beam Wall Wash** **6LW110**=6" Wide Reflector, Wall Wash	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White	**Pendant Kit for Round** **L836P**=Pendant Kit, White, 36" **L836BZ**=Pendant Kit, Bronze, 36" **L836MB**=Pendant Kit, Matte Black, 36" **L836SL**=Pendant Kit, Painted Silver, 36" **Aircraft Cable for Round** **LAC120P**=120" Aircraft Cable- White **LAC48P**=48" Aircraft Cable- White **LAC120MB**=120" Aircraft Cable- Black **LAC48MB**=48" Aircraft Cable- Black **Pendant Kit for Square** **LSQ836P**=Pendant kit, White 36" **LSQ836BZ**=Pendant kit, Bronze,36" **LSQ836MB**=Pendant kit, Matte Black, 36" **LSQ836SL**=Pendant kit, Painted Silver, 36"	**Kit Aircraft Cable for Square** **LACSQ120P**= 20" Aircraft Cable- White **LACSQ48P**=48" Aircraft Cable- White **LACSQ120MB**=120" Aircraft Cable- Black **LACSQ48MB**=48" Aircraft Cable- Black **Type** **120**=3 conductor for use with 120/277V 2-wire dimming **Blank**=5 conductor for use with 0-10V dimming drivers **DL3**=6 conductor for use with DL3 3-wire dimming drivers **Example:** LAC 48P 48"cable with white cord for use with 0-10V driver

Notes: [1] Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.
[2] Order two trims and light engines.
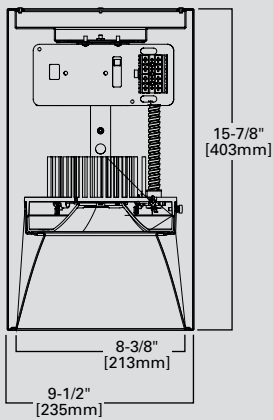
8 Inch

LED Cylinders

Architecturally designed to complement any space, Portfolio's 8-inch LED cylinder is perfect for high ceiling applications. The standard driver is dimmable with 0-10V or trailing edge, making it ideal for replacing existing incandescent cylinders with LED. Offered in wall mount or ceiling mount with optional pendant and aircraft cable kits in a variety of finishes. Diffused optical system provides superior light control and low aperture brightness while delivering over 80 lm/W. The transitional lens design reduces LED source brightness and evenly distributes light across the entire lens producing even illumination. Available lumen packages range from 3,000-6,500 lumens with a choice of 2700K, 3000K, 3500K and 4000K color temperatures in 80 or 90 CRI. System life is designed for 50,000 hours at 70 percent lumen maintenance. Color variation is within 3-step MacAdam ellipses ensuring color consistency from fixture to fixture. Flexible disconnect capability allows for tool-less replacement of LED engine. The cylinders are universal voltage (120-277V).

Finish

White	Matte Black	Painted Silver	Bronze

Surface Mount

15-7/8" [403mm]
8-3/8" [213mm]
9-1/2" [235mm]

Wall Mount

14-7/8" [377mm]
8-3/8" [213mm]
9-3/8" [237mm]
13" [329mm]

Pendant Mount

16" [406mm]
8-3/8" [213mm]
9-1/2" [235mm]

Aircraft Mount

16" [406mm]
8-3/8" [213mm]
9-1/2" [235mm]

Features and Benefits

- Delivered lumens ranging from 3000 to 6500
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam
- Wall wash, narrow, medium and wide beam reflectors
- Lumen maintenance of L70 at 50,000 hours
- Standard dual dimming driver, 0-10V or trailing edge
- Optional Fifth Light or 1% dimming drivers

- Three part system with flexible disconnect for easy LED engine replacement and installation
- Surface ceiling, pendant, wall mount
- Matte white, black, bronze or silver paint finish
- Optional stem mount or aircraft cable
- cULus listed for wet locations
- Photometric testing completed in accordance with IES LM 79 standards
- LED life testing completed in accordance with LM 80 standards
- 5 year warranty

Refer to ENERGY STAR® Qualified Products List.
Can be used to comply with California Title 24 Non-Residential
Lighting Controls requirements as a LED Luminaire

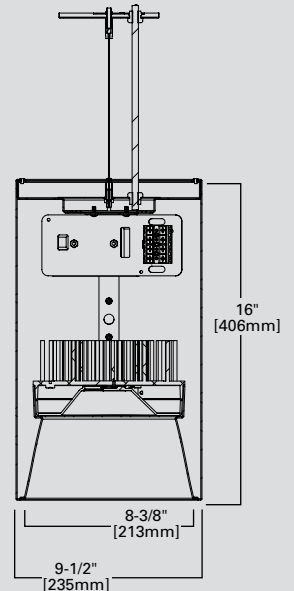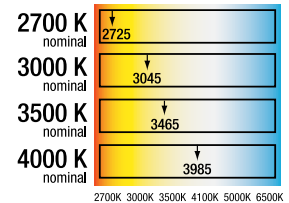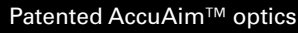|	
2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:
Order Housing, Power Module, Trim and Accessories Separately

SAMPLE NUMBER: LCR8A40D010TEP ER8A40835 8LM0LI

Housing	Lumens①	Driver	Cylinder Finish	Power Module	Lumens	CRI	Color
LCR8A=8" Aperture Surface, Cylinder **LCRWM8A**=8" Aperture Wall Mount, Cylinder	**30**=3000 Lumens **40**=4000 Lumens **50**=5000 Lumens **60**=6000 Lumens **65**=6500 Lumens	**3000, 4000, 5000 and 6000 Lumen** **D010TE**=0-10V 10% Dimming or Trailing Edge 120V Dimming **D5LT**=Fifth Light® (DALI) Dimming 1-100%2 **DL3**=1 to 100% Dimming Lutron® Hi-Lume, Ecosystem or 3-Wire2 **DE010**=0-10V 1% Dimming **4000 5000, 6000 and 6500 Lumen** **D010TR**=0-10V 10% Dimming or Leading Edge 120V Dimming **6500 Lumen** **D010**=0-10V Dimming **DE010**=1 to 100% Dimming, 50/60Hz, 0-10V	**P**=White **MB**=Matte Black **SL**=Painted Silver **BZ**=Bronze	**ER8A**=8" Module	**30**=3000 Lumens **40**=4000 Lumens **50**=5000 Lumens **60**=6000 Lumens **65**=6500 Lumens	**8**=80 **9**=90	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K

Reflector	Finish	Accessories	
Narrow Beam **8LN0**=8" Narrow Reflector **Medium Beam** **8LM0**=8" Medium Reflector **Wide Beam** **8LW0**=8" Wide Reflector	**LI**=Specular Clear **H**=Semi-Specular Clear **WMH**=Warm Haze **G**=Specular Gold **WH**=Wheat **WHH**=Wheat Haze **GP**=Graphite **GPH**=Graphite Haze **B**=Specular Black **W**=Gloss White **8LM0 Only** **WB**=White Baffle **BB**=Black Baffle	**Pendant Kit for Round** **L836P**=Pendant Kit, White, 36" **L836BZ**=Pendant Kit, Bronze, 36" **L836MB**=Pendant Kit, Matte Black, 36" **L836SL**=Pendant Kit, Painted Silver, 36" **Aircraft Cable for Round** **LAC120P**=120" Aircraft Cable-White **LAC48P**=48" Aircraft Cable-White **LAC120MB**=120" Aircraft Cable-Black **LAC48MB**=48" Aircraft Cable-Black	**Type** **120**=3 conductor for use with 120/277V 2-wire dimming **Blank**=5 conductor for use with 0-10V dimming drivers **DL3**=6 conductor for use with DL3 3-wire dimming drivers **Example:** LAC 48P 48"cable with white cord for use with 0-10V driver

Notes: ① Nominal delivered lumens will vary depending on selected CCT, driver and reflector finish.

Patented AccuAim™ optics

Precisely controlled light output

WaveStream™ LED
Taking Control of Light.

Design Freedom
Optical Control
Energy Efficiency
Brightness Control
Mainstream Value

The Breakthrough You've Been Waiting For

WaveStream™ LED technology presents a new paradigm that will take LEDs mainstream in a way that hasn't been possible before — transforming the LED point source into a highly efficient and elegant luminous plane. It's a groundbreaking technology that delivers unparalleled design freedom, maximum energy efficiency and unrivaled optical and brightness control.

The Science Behind the Beauty

A patented optical coupling process maximizes the amount of light injected into the WaveStream panel, dramatically improving luminaire efficiency. Laser-precise, patented AccuAim™ optics arranged in exacting patterns provide unparalleled brightness control while delivering optimal distributions tailored to each fixture and application.

Highly efficient luminous panel

Optimal LED coupling
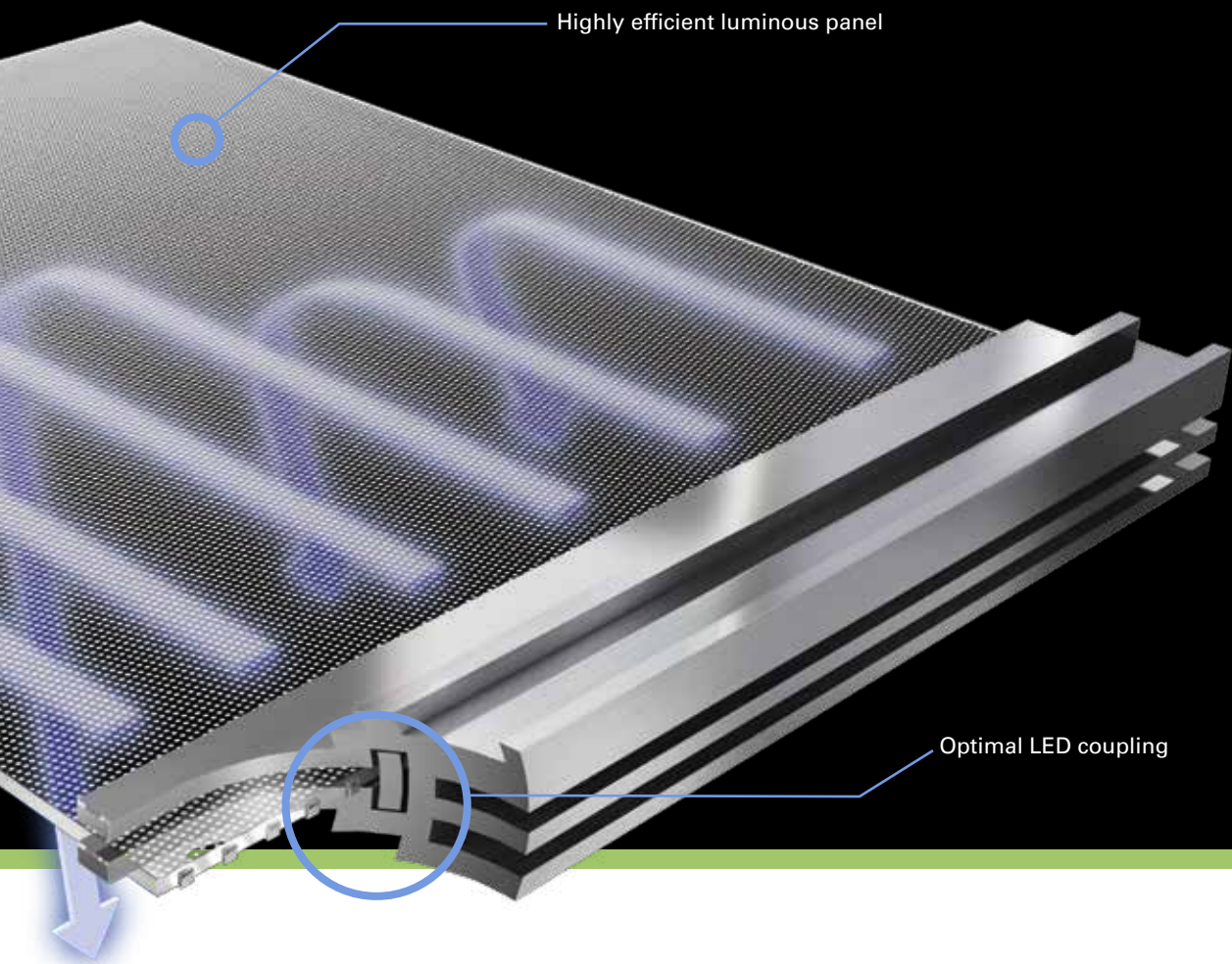
WaveStream is the first lighting technology designed and optimized exclusively for LEDs — with form and function that allows mainstream adoption like never before. Once you factor in all the ways you can build and customize WaveStream lighting solutions, over 500,000 configurations are available to address nearly every major lighting application.
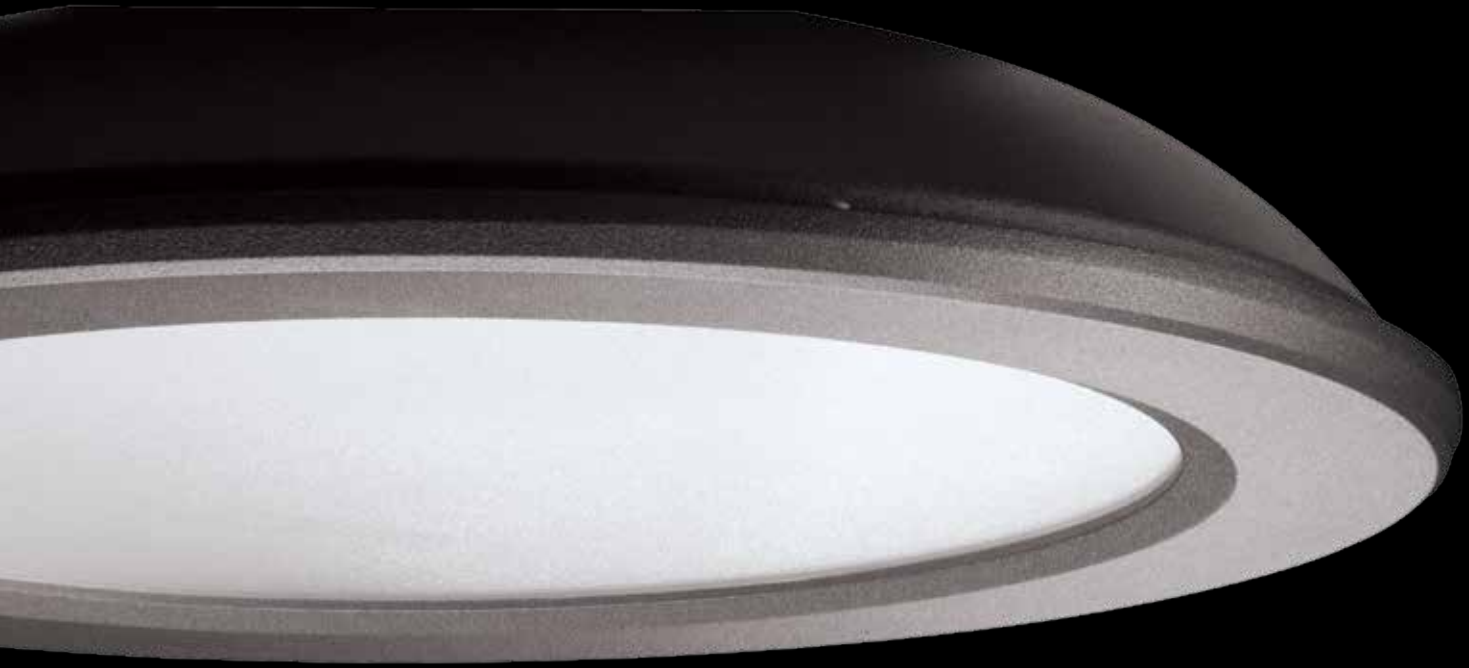
LED Surface Luminaire

Portfolio's newest surface mount fixtures deliver an unparalleled combination of aesthetics and performance. Utilizing the patented WaveStream™ LED technology with AccuAim™ optics, these products deliver optimal distribution and efficiency in a low-profile form factor. Ideal for high ceiling applications in architectural and commercial spaces, the Portfolio surface mount will add artistic flare to many spaces. Replacing high wattage incandescent, halogen and metal halide sources, the architecturally designed surface-mount pendant provides significant energy savings with a quick payback.

Features and Benefits

- Five lumen packages (4500, 5500, 7000, 8000 and 9000)
- Efficacy: delivers up to 101 lm/W
- 80 or 90 CRI
- Color Temperatures: 2700K, 3000K, 3500K and 4000K
- Lumen maintenance 85% at 60,000 hours
- Available for ceiling, wall, aircraft cable or stem mounting

- Standard 0-10V 10% or trailing edge combination driver
- Optional Fifth Light, 0-10V 1% or Lutron driver
- Matte black, white, bronze or silver finishes
- 85% lumen output at 60,000 hours of operation
- UL/cUL listed for wet locations
- Five-year warranty

DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.

LED Surface Luminaire

SURFACE MOUNT
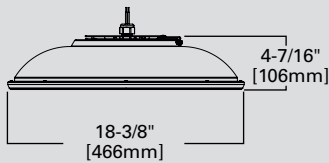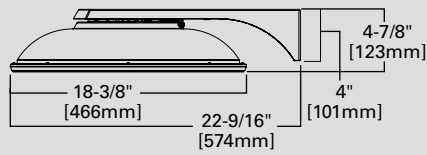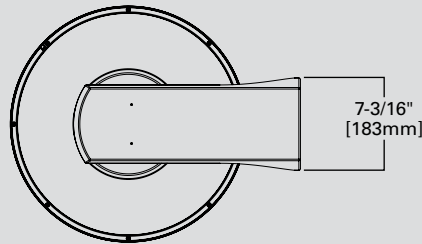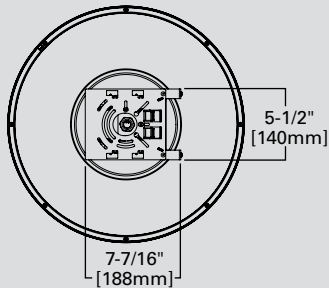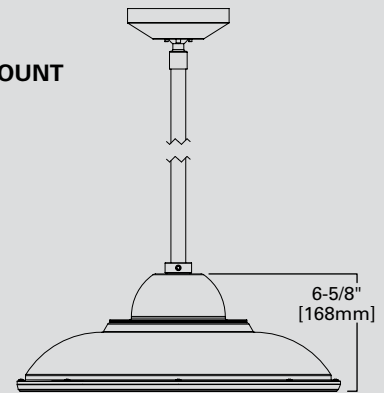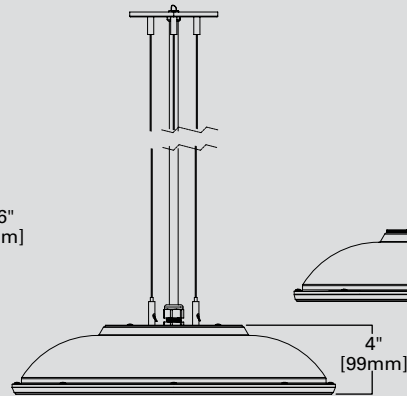
4-7/16" [106mm]

18-3/8" [466mm]

5-1/2" [140mm]

7-7/16" [188mm]

WALL MOUNT

18-3/8" [466mm]

22-9/16" [574mm]

4-7/8" [123mm]

4" [101mm]

7-3/16" [183mm]

AIRCRAFT CABLE MOUNT

4" [99mm]

PENDANT MOUNT

6-5/8" [168mm]

Ordering Information:
Order Housing, Power Module, Trim and Accessories Separately

Sample Number: LSMP45W8027D010TE MBLPS36MB

Housing	Lumens①	Distribution	CRI	CCT	Driver	Color
LSM=LED Surface Ceiling **LSMP**=LED Pendant Mount **LSWM**=LED Wall Mount **LSMAC48**=LED Aircraft Cable Mount 48" **LSMAC120**=LED Aircraft Cable Mount 120"	**45**=4500 Lumens **55**=5500 Lumens **70**=7000 Lumens **80**=8000 Lumens **90**=9000 Lumens	**W**=Wide	**80**=80 CRI **90**=90 CRI	**27**=2700 K **30**=3000 K **35**=3500 K **40**=4000 K	**4500, 5500, 7000, 8000 and 9000 Lumen** **D010TE**=120-277 0-10V 10% Dimming or Trailing Edge 120V **4500, 5500, 7000, 8000 Lumen** **D5LT**=120-277 Fifth Light DALI Dimming **D010TR**=120-277 0-10V 10% Dimming or Leading Edge 120V **DE010**=120-277 0-10V 1% Dimming **4500, 5500, 7000 Lumen** **DL3**=120-277, 1-100% Lutron Dimming **DLT**=120-277, 1-100% Lutron Dimming	**MB**=Matte Black **P**=White **SL**=Silver **BZ**=Bronze

Stem Kits	Color	Accessories
LPS36=36-Inch **LPS48**=48-Inch **LPS96**=96-Inch	**MB**=Matte Black **P**=White **SL**=Silver **BZ**=Bronze	**Blank**=5 Conductor for use with 0-10V Dimming Drivers **120**=3 Conductor for use with 120V or 277V 2-wire Dimming **DL3**=6 Conductor for use with DL3 3-wire Dimming Drivers **D5LT**=5 Conductor for use with D5LT Drivers

Notes: ① For pendant mount order stem kit.

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Candlepower Distribution

Downlight

1650 · 3300 · 4950 — angles 90°, 75°, 60°, 45°, 30°, 15°
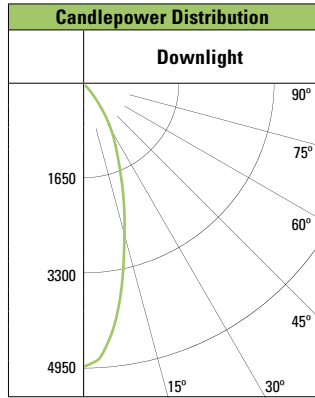
Test Number	P98715
LD4A18D010TE ERN4A835 4LN1LI	
Lumens	2224
Efficacy	70.6 Lm/W
Watts	31.5
CCT	3500K
SC	0.53

Luminance

Average Candella Degrees	Average 0° Luminance
45	12349
55	629
65	415
75	0
85	0

Candela Table

Degrees Vertical	Candela
0	4844
5	4478
15	2662
25	1354
35	576
45	90
55	4
65	2
75	0
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5'5"	160	2.8
7'	98	3.6
8'	75	4.2
9'	59	4.6
10'	48	5.2
12'	33	6.2

Lumen	Multipier
900	.41
1300	.62
1800	1.00
2800	1.02

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1774	79.8
0-40	2135	96.0
0-60	2223	100
0-90	2224	100
90-180	0	0
0-180	2224	100

Candlepower Distribution

Downlight

900 · 1800 · 2700 — angles 90°, 75°, 60°, 45°, 30°, 15°
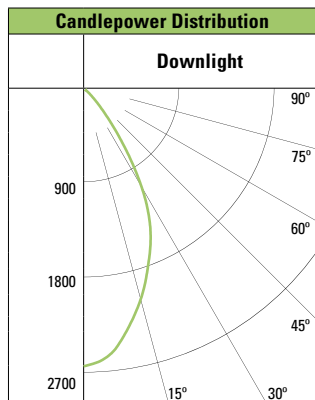
Test Number	P97827
LD4A18D010TE ERM4A835 4LM1LI	
Lumens	2354
Efficacy	74.7 Lm/W
Watts	31.5
CCT	3500K
SC	0.75

Luminance

Average Candella Degrees	Average 0° Luminance
45	8628
55	1308
65	922
75	715
85	0

Candela Table

Degrees Vertical	Candela
0	3575
5	3479
15	2800
25	1722
35	612
45	63
55	8
65	4
75	2
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5'5"	118	4.0
7'	73	5.2
8'	55	6.0
9'	44	6.6
10'	35	7.4
12'	24	9.0

Lumen	Multipier
900	.42
1300	.62
1800	1.00
2800	1.18

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1882	79.9
0-40	2276	96.7
0-60	2348	99.8
0-90	2354	100
90-180	0	0
0-180	2354	100

Candlepower Distribution

Downlight

650 · 1300 · 1950 — angles 90°, 75°, 60°, 45°, 30°, 15°
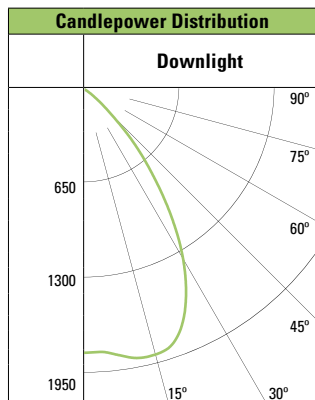
Test Number	P98763
LD4A18D010TE ERW4A835 4LW1LI	
Lumens	2416
Efficacy	76.7 Lm/W
Watts	31.5
CCT	3500K
SC	1.14

Luminance

Average Candella Degrees	Average 0° Luminance
45	12349
55	629
65	415
75	0
85	0

Candela Table

Degrees Vertical	Candela
0	1785
5	1791
15	1862
25	1625
35	1005
45	361
55	59
65	4
75	2
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5'5"	59	6.2
7'	36	7.8
8'	27	9.0
9'	22	10.2
10'	17	11.4
12'	12	13.6

Lumen	Multipier
900	.44
1300	.65
1800	1.0
2800	1.2

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1435	59.4
0-40	2058	85.2
0-60	2410	99.7
0-90	2416	100
90-180	0	0
0-180	2416	100

Candlepower Distribution

Downlight | Wall Washer

750 · 1500 · 2250 — angles 90°, 75°, 60°, 45°, 30°, 15°

LEGEND:
- 0-deg: – – –
- 90-deg: ———
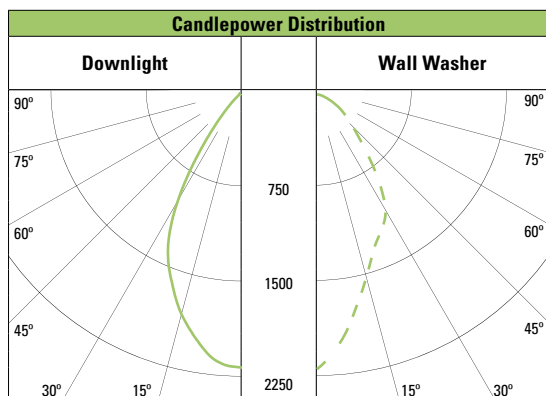
Test Number	P97891
LD4A18D010TE ERW4A18835 4LW111LI	
Lumens	2288
CCT	3500K

Single Unit Footcandles				Multiple Unit Footcandles											
3' From Wall (Distance From Fixture Along Wall)				**2.5' From Wall** (Spacing Between Fixtures)						**3' From Wall** (Spacing Between Fixtures)					
DD	1'	2'	3'	2'			3'			2'			3'		
1'	7	5	3	1	19	20	19	16	13	16	10	11	10	8	8	8
2'	20	17	10	4	43	49	43	35	36	35	30	33	30	25	26	25
3'	21	18	12	6	44	48	44	36	38	36	33	36	33	27	30	27
4'	20	17	12	7	38	42	38	31	35	31	32	35	32	27	30	27
5'	15	14	11	7	28	30	28	23	27	23	27	29	27	23	26	23
6'	11	11	9	7	20	21	20	17	20	17	20	21	20	18	20	18
7'	8	8	7	6	14	14	14	13	14	13	15	15	15	14	15	14
8'	6	6	5	5	10	10	10	10	10	10	11	11	11	10	11	10
9'	4	4	4	4	8	8	8	7	8	7	8	8	8	8	8	8
10'	3	3	3	3	6	6	6	6	6	6	6	6	6	6	6	6

Candlepower Distribution

Downlight
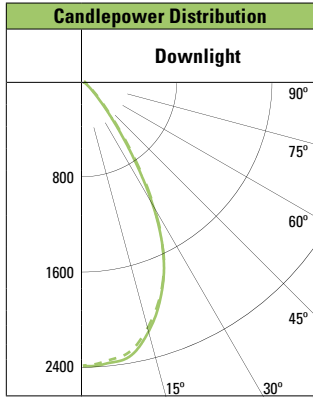
Test Number	P97907
LDSQ4A18D010TE ESQ4A835 4LSQ1LI	
Lumens	2206
Efficacy	70 Lm/W
Watts	31.5
CCT	3500K
SC	0.93

Luminance

Average Candella Degrees	Average 0° Luminance
45	13975
55	2923
65	1087
75	562
85	0

Candela Table

Degrees Vertical	Candela
0	2373
5	2339
15	2119
25	1590
35	662
45	129
55	22
65	6
75	2
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5'5"	78	5.0
7'	48	6.4
8'	37	7.4
9'	29	8.3
10'	23	9.2
12'	16	11.1

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1774	79.8
0-40	2135	96.0
0-60	2223	100
0-90	2224	100
90-180	0	0
0-180	2224	100

Candlepower Distribution

Downlight   Wall Washer

LEGEND:
0-deg: – – – –
90-deg: ———

Test Number	P100844
LDSQ4A18D010TE ESQ4A18835 4LSQLWW1H	
CCT	3500K
SC	1

Single Unit Footcandles				Multiple Unit Footcandles											
3' From Wall (Distance From Fixture Along Wall)				**2.5' From Wall** (Spacing Between Fixtures)						**3' From Wall** (Spacing Between Fixtures)					
DD		1'	2'	3'		2'			3'			2'			3'	
1'	14	10	5	2	50	50	50	44	29	44	18	20	18	16	14	16
2'	20	16	10	5	53	58	53	45	41	45	30	33	30	25	26	25
3'	18	15	10	6	40	44	40	33	35	33	28	31	28	24	26	24
4'	14	13	9	6	27	29	27	22	25	22	23	25	23	20	22	20
5'	10	10	8	6	17	18	17	15	17	15	18	19	18	16	17	16
6'	7	7	6	5	11	12	11	10	11	10	13	14	13	12	13	12
7'	5	5	4	4	8	8	8	7	8	7	10	10	10	9	10	9
8'	4	4	3	3	5	6	5	5	5	5	7	7	7	7	7	7
9'	3	3	3	2	4	4	4	4	4	4	5	5	5	5	5	5
10'	2	2	2	2	3	3	3	3	3	3	4	4	4	4	4	4

Lumen	Multipier
900	.44
1300	.65
1800	1.0
2800	1.2

Multiplier Factor from 35K		
CCT [K]	From 35K	80 -> 90 CRI
2700	0.93	.79
3000	0.99	.80
3500	1.00	.84
4000	1.01	.85

Photometry – 6-Inch Rounds

Candlepower Distribution

Downlight
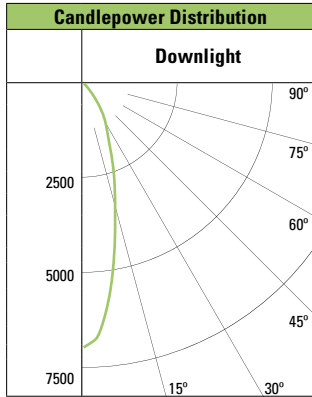
Test Number P97571

LD6A30DE010 ERN6A30835 6LN1LI

Lumens	2685 Lm
Efficacy	61.5 Lm/W
Watts	43.6 W
CCT	3500K
SC	0.46

Luminance

Average Candella Degrees	Average 0° Luminance
45	8244
55	513
65	221
75	0
85	0

Candela Table

Degrees Vertical	Candela
0	6704
5	6010
15	3137
25	1502
35	721
45	125
55	6
65	2
75	0
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
10'	67	5
15'	30	7
20'	17	9.5
25'	11	12
30'	7	14

Lumen	Multipier
1000	.37
1500	.54
2000	.82
3000	1.0

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	2116	79
0-40	2560	95.5
0-60	2683	100
0-90	2685	100
90-180	0	0
0-180	2685	100

Candlepower Distribution

Downlight
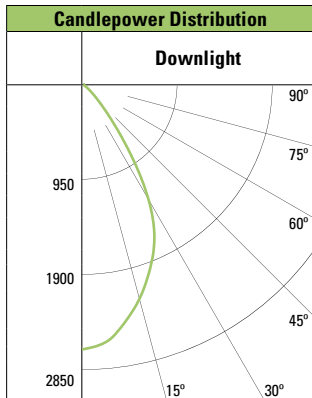
Test Number P97647

LD6A30DE010 ERM6A30835 6LM1LI

Lumens	2809 Lm
Efficacy	64.4 Lm/W
Watts	43.6 W
CCT	3500K
SC	0.8

Luminance

Average Candella Degrees	Average 0° Luminance
45	8385
55	1087
65	595
75	464
85	0

Candela Table

Degrees Vertical	Candela
0	3589
5	3557
15	3159
25	2082
35	848
45	104
55	11
65	4
75	2
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
7'	73	6
8'	56	7
9'	44	7.5
10'	36	8.5
12'	25	10
15'	16	12.5

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	2159	77
0-40	2691	96
0-60	2803	100
0-90	2809	100
90-180	0	0
0-180	2809	100

Candlepower Distribution

Downlight
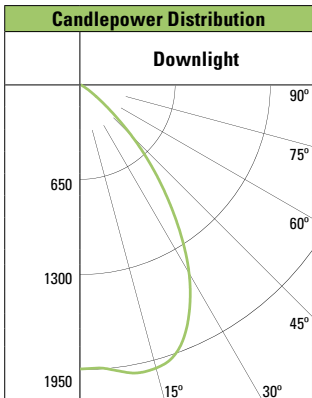
Test Number P97731

LD6A30DE010 ERW6A30835 6LW1LI

Lumens	2838 Lm
Efficacy	65 Lm/W
Watts	43 W
CCT	3500K
SC	1.1

Luminance

Average Candella Degrees	Average 0° Luminance
45	42439
55	10791
65	830
75	445
85	0

Candela Table

Degrees Vertical	Candela
0	1917
5	1919
15	1983
25	1761
35	1195
45	547
55	113
65	6
75	2
85	0
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
7'	39	8
8'	30	9
9'	24	10.5
10'	19	11.5
12'	13	14
15'	8.5	17.5

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1546	54.5
0-40	2287	80.5
0-60	2824	99.5
0-90	2838	100
90-180	0	0
0-180	2838	100

Candlepower Distribution

Downlight | Wall Washer

LEGEND:
0-deg: (dashed)
90-deg: (solid)
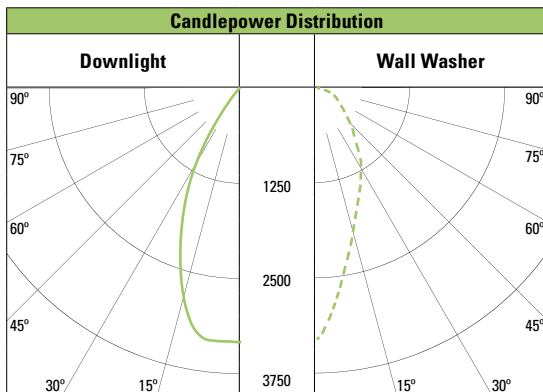
Test Number P101671

LD6A30D010TE ERW6A30835 6LW111LI

Lumens	2817
CCT	3500K

Single Unit Footcandles

3' From Wall (Distance From Fixture Along Wall)

DD	1'	2'	3'
1'	14	12	6	2
2'	23	20	12	6
3'	23	20	13	7
4'	21	19	14	8
5'	17	16	13	8
6'	13	12	10	8
7'	9	9	8	7
8'	7	7	6	5
9'	5	5	5	4
10'	4	4	4	4

Multiple Unit Footcandles

2.5' From Wall (Spacing Between Fixtures)

DD	2'			3'		
1'	34	39	34	28	27	28
2'	48	54	48	39	41	39
3'	48	54	48	39	43	39
4'	42	46	42	35	40	35
5'	32	35	32	27	31	27
6'	23	24	23	21	23	21
7'	17	17	17	15	17	15
8'	12	13	12	12	12	12
9'	9	9	9	9	9	9
10'	7	7	7	7	7	7

3' From Wall (Spacing Between Fixtures)

DD	2'			3'		
1'	20	23	20	17	18	17
2'	35	39	35	29	32	29
3'	36	40	36	30	34	30
4'	35	38	35	29	33	29
5'	30	32	30	26	29	26
6'	23	25	23	21	23	21
7'	18	18	18	16	18	16
8'	13	14	13	12	13	12
9'	10	10	10	10	10	10
10'	8	8	8	8	8	8

Candlepower Distribution

Downlight

Test Number	P2858
LDSQ6A30DE010 ESQ6A30835 6LSQ1LI	
CCT	3500K
SC	.92
Lumens	2858

Luminance

Average Candella Degrees	Average 0° Luminance
45	13870
55	5410
65	1967
75	856
85	636

Candela Table

Degrees Vertical	Candela
0	2363
5	2302
15	2120
25	1795
35	786
45	228
55	72
65	19
75	5
85	1
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
5.5'	78	6
7'	48	7
8'	37	8
9'	29	9
10'	24	10
15'	14	13
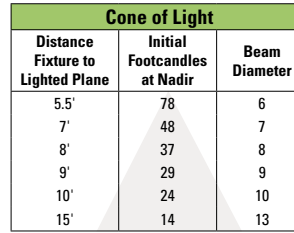
Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1641	63
0-40	2271	88
0-60	2561	99
0-90	2589	100
90-180	0	0
0-180	2589	100

CCT Multiplication Factors		CCT [K]	Multiplier from 3500K	80 -> 90 CRI
80 CRI	2800 & 3000 Lumen	2700	0.93	
		3000	0.99	
		3500	1.00	
		4000	1.01	
90 CRI	2800 & 3000 Lumen	2700	0.88	0.79
		3000	0.94	0.80
		3500	1.00	0.84
		4000	1.03	0.85

Candlepower Distribution

Downlight / Wall Washer
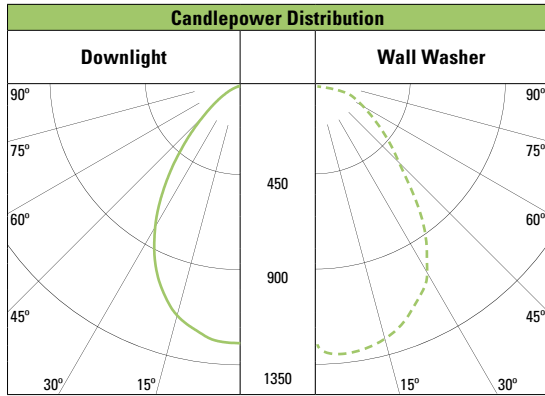
LEGEND:
0-deg: ----
90-deg: ——

Test Number	P101745
LDSQ6A30D010TE ESQ6A30835 6LSQLWW1LI	
CCT	3500K
SC	1

Single Unit Footcandles

3' From Wall (Distance From Fixture Along Wall)

DD		1'	2'	3'
1'	19	14	6	2
2'	25	21	13	6
3'	24	21	15	8
4'	21	19	14	9
5'	15	14	12	8
6'	11	10	9	7
7'	8	7	7	5
8'	6	5	5	4
9'	4	4	4	3
10'	3	3	3	3

Multiple Unit Footcandles

2.5' From Wall (Spacing Between Fixtures) | **3' From Wall** (Spacing Between Fixtures)

2'			3'			2'			3'		
38	42	38	33	28	33	25	28	25	21	20	21
52	58	52	42	45	42	38	42	38	31	34	31
50	55	50	41	46	41	39	43	39	32	37	32
39	42	39	33	37	33	35	37	35	30	33	30
27	29	27	24	26	24	27	29	27	24	26	24
19	20	19	17	18	17	20	21	20	18	19	18
13	14	13	12	13	12	14	15	14	13	14	13
10	10	10	9	9	9	11	11	11	10	10	10
7	7	7	7	7	7	8	8	8	7	8	7
5	6	5	5	5	5	6	6	6	6	6	6

Lumen	Multipier
1000	.37
1500	.54
2000	.81
3000	1.0

Multiplier Factor from 35K

CCT [K]	From 35K	80 -> 90 CRI
2700	0.93	.79
3000	0.99	.80
3500	1.00	.84
4000	1.01	.85

Section 1

Candlepower Distribution — Downlight
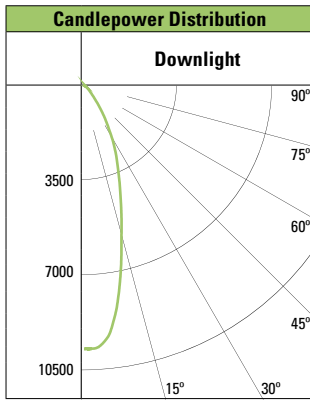
Test Number	P112471
LD8A50D010TE ER8A50835 8LN0LI	
Lumens	4603 Lm
Watts	62W
Efficacy	74Lm/W
CCT	3500K
SC	0.6

Luminance

Average Candella Degrees	Average 0° Luminance
45	5157
55	524
65	812
75	0
85	4430

Candela Table

Degrees Vertical	Candela
0	10069
5	9738
15	5643
25	2940
35	1045
45	118
55	10
65	11
75	0
85	13
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
12.5'	64	6
15'	45	8
20'	25	10
24'	17	13
28'	13	15
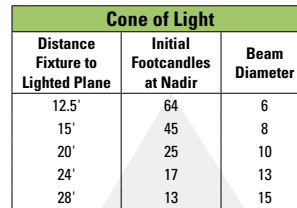
Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	3785	82
0-40	4441	96
0-60	4567	99
0-90	4603	100
90-180	0	0
0-180	4603	100

Section 2

Candlepower Distribution — Downlight
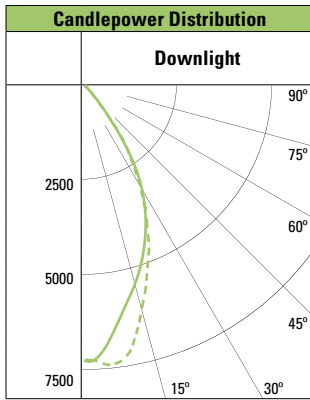
Test Number	P112343
LD8A50D010TE ER8A50835 8LM0LI	
Lumens	4962 Lm
Watts	62W
Efficacy	80 Lm/W
CCT	3500K
SC	0.8

Candela Table

Degrees Vertical	Candela
0	6445
5	6573
15	5323
25	3488
35	1582
45	316
55	26
65	0
75	1
85	0
90	0

Luminance

Average Candella Degrees	Average 0° Luminance
45	13773
55	1421
65	0
75	166
85	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
12.5'	42	10
15'	29	12
20'	16	16
24'	11	19
28'	8	22
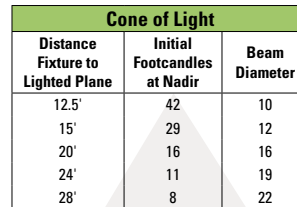
Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	3598	72
0-40	4641	93
0-60	4952	99
0-90	4962	100
90-180	0	0
0-180	4962	100

Section 3

Candlepower Distribution — Downlight
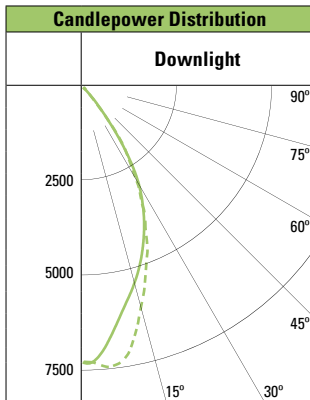
Test Number	P110167
LD8A50D010TE ER8A50835 8LW0LI	
Lumens	5083 Lm
Watts	62W
Efficacy	81.9 Lm/W
CCT	3500K
SC	1

Candela Table

Degrees Vertical	Candela
0	1917
5	1919
15	1983
25	1761
35	1195
45	547
55	113
65	6
75	2
85	0
90	0

Luminance

Average Candella Degrees	Average 0° Luminance
45	42170
55	10921
65	1320
75	166
85	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
12.5'	22	15
15'	15	18
20'	8	24
24'	6	29
28'	4	34
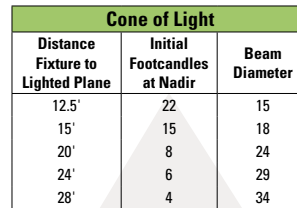
Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	2740	54
0-40	4147	81
0-60	5052	99
0-90	5083	100
90-180	0	0
0-180	5083	100

Section 4

Candlepower Distribution — Downlight / Wall Washer
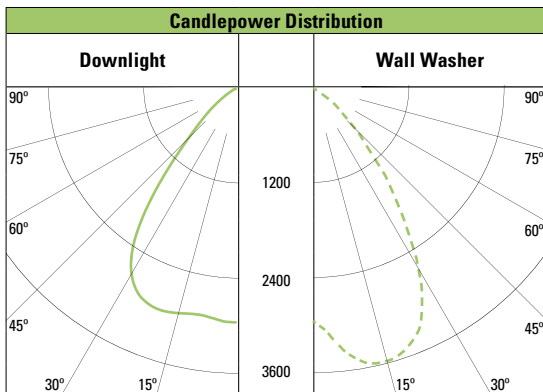
Test Number	P112727
LD8A50D010TE ER8A50835 8LM0LI	
Lumens	5035
CCT	3500K

LEGEND:
0-deg: - - - -
90-deg: ——

Single Unit Footcandles

3' From Wall (Distance From Fixture Along Wall)

DD	●	1'	2'	3'
1'	1	1	0	0
2'	8	5	2	1
3'	32	25	12	4
4'	43	36	22	10
5'	39	35	25	14
6'	31	29	23	15
7'	23	22	19	14
8'	17	16	14	12
9'	13	12	11	10
10'	10	9	8	8

Multiple Unit Footcandles

2.5' From Wall (Spacing Between Fixtures)

●	2'	●	●	3'	●
2	2	2	1	1	1
30	32	30	27	18	27
79	88	79	66	61	66
87	97	87	70	78	70
73	80	73	61	70	61
54	58	54	47	53	47
39	41	39	35	38	35
28	29	28	26	28	26
21	21	21	20	20	20
16	16	16	15	15	15

3' From Wall (Spacing Between Fixtures)

●	2'	●	●	3'	●
1	1	1	1	1	1
10	11	10	9	7	9
44	50	44	36	36	36
64	72	64	53	59	53
64	69	64	53	60	53
54	57	54	46	52	46
42	43	42	37	41	37
31	32	31	29	31	29
24	24	24	22	23	22
18	18	18	17	18	17

Photometry – LED Surface Luminaire

Candlepower Distribution

Downlight

90°	
75°	
400	
60°	
1150	
45°	
1550	
15° 30°	
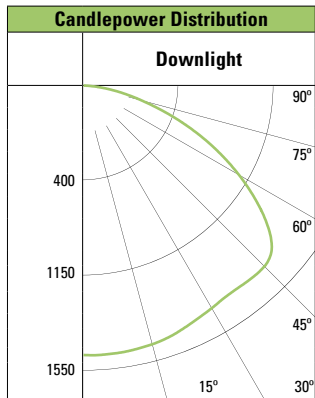
LSM55W8035D010TEP

Lumens	5808
Efficacy	103 Lm/W
Watts	57
CCT	3500K
SC	1.45 / 1.43 / 1.73

Luminance

Average Candella Degrees	Average 0° Luminance
45	22030
55	23021
65	20356
75	15144
85	8865

Candela Table

Degrees Vertical	Candela
0	1516
5	1518
15	1506
25	1465
35	1432
45	1439
55	1220
65	795
75	362
85	71
90	0

Cone of Light

Distance Fixture to Lighted Plane	Initial Footcandles at Nadir	Beam Diameter
8'	24	11
9'	19	13
10'	15	14
13'	9	19
16'	6	23

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1247	22
0-40	2153	37
0-60	4452	77
0-90	5807	100
90-180	0	0
0-180	5807	100

Delivered lumens with 80CRI, 35K LED and Specular clear reflector

Lumens	Wattage	Narrow	Narrow LPW	Medium	Medium LPW	Wide	Wide LPW
1000	14.1	1005	71	1046	74	1077	76
1500	22.4	1450	65	1509	67	1552	69
2000	31	2209	62	2301	74	2349	76
3000	44	2685	68	2809	65	2838	66
4000	58	3729	64	4216	72	4373	75
5000	62	4603	74	4962	80	5083	82
6000	77	5514	71	5945	77	6090	79
6500	84	6190	73	6674	79	6837	86

Lamps and Comparisons

Common Lighting Source	Average Delivered Lumens *	Wattage	Luminaire Efficacy	Life (hrs)
Compact Fluorescent				
2-42W Horizontal	3684	93	40 lpw	12000
2-32W Horizontal	2682	69	39 lpw	12000
2-26W Horizontal	1921	55	35 lpw	12000
1-42W Horizontal	1628	48	34 lpw	12000
1-32W Horizontal	1361	36	36 lpw	12000
1-26W Horizontal	1050	29	36 lpw	12000
1-18W Horizontal	650	21	31 lpw	12000
1-42W Vertical	1628	48	34 lpw	12000
1-32W Vertical	1301	36	36 lpw	12000
1-26W Vertical	960	29	33 lpw	12000
1-18W Vertical	570	21	27 lpw	12000
Metal Halide				
100W ED17	3300	115	29 lpw	20000
150W ED17	6480	165	39 lpw	20000
250W ED28	9375	274	34 lpw	15000
70W T6	3550	86	41 lpw	12000
70W PAR30	3040	86	35 lpw	12000
150W PAR38	7917	165	48 lpw	12000
Incandescent				
75W PAR30	820	75	11 lpw	2500
90W PAR38	1126	90	12 lpw	2500
120W PAR38	1729	120	14 lpw	3000
250 PAR38	3096	250	12 lpw	4500
150W A21	2245	150	15 lpw	750
200W A21	2610	200	11 lpw	1000
500W PAR56	6000	500	12 lpw	4000

* Delivered lumens based on mean lumens and typical fixture efficiency in the smallest aperture luminaire. For reference only.
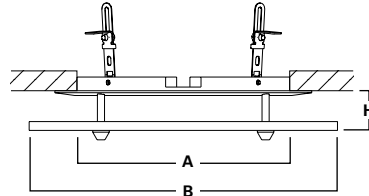
Reflector Color and Finishes

Finish		Description		
White		**TRM4P**=4" White	**TRM6P**=6" White	**TRM7P**=7" White
Chrome (C)		**TRM6C**=6" Chrome		
Black (MB)		**TRM4MB**=4" Black	**TRM6MB**=6" Black	**TRM7MB**=7" Black
Satin Nickel (SN)		**TRM6SN**=6" Satin Nickel		

Finish		Multipliers*	Description
Specular Clear (LI)		1.0	Specular clear Alzak finish delivers full light output.
Semi-Specular Clear (H)		.87	Semi-specular clear Alzak finish provides visual identity.
Gold (G)		.90	Champagne Gold specular Alzak finish provides visual warmth.
Warm Haze (WMH)		.86	Semi-specular Alzak finish provides visual identity with a hint of Gold for warmth.
Wheat (WH)		.86	Deep Gold specular Alzak finish adds significant visual warmth.
Wheat Haze (WHH)		.80	Clear, deep Gold semi-specular Alzak finish adds significant visual warmth.
Graphite (GP)		.60	Gun-metal Gray specular Alzak finish shows less dust.
Graphite Haze (GPH)		.57	Graphite with a semi-specular Alzak finish.
Black (B)		.48	Specular Alzak finish provides maximum aperture darkness.
Black Baffle (BB) Polymer trim ring only			
White Baffle (WB) Polymer trim ring only			
Gloss White (W) Polymer trim ring only			

Notes: * Values shown for quick reference. See ies files for output specified fixture type and finish.

6-Inch and 7-Inch Decorative Trims

Anodized Single Ring

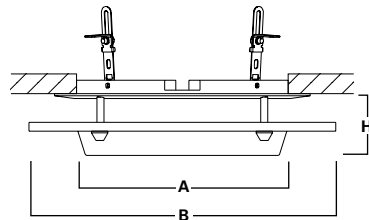- Decorative anodized single aluminum ring
- 0.09-inch thick with a brushed surface
- Rings anodized to retain appearance over life

Sample Number: DT6RC

Size	Finish
DT6R=6" Single Ring Deco Trim	**C**=Anodized Clear

Notes: Δ Order trim with polymer trim ring

Dimensions	A	B	H
6" Trim	6-1/8" [156 mm]	8-3/4" [222 mm]	2-1/4" [57 mm]

Glass Funnels

- Decorative glass funnel
- Etched finish on both surfaces to diffuse light and glow
- Crisp edge details provide architectural appearance
- 0.250-inch thick, molded glass funnel

Sample Number: DT7LF0

Size	Style	Color
DT6=6" Deco Trim	**LF**=Glass Funnel	**0**=Frosted **1**=Cobalt Blue

Notes: Δ Order trim with polymer trim ring

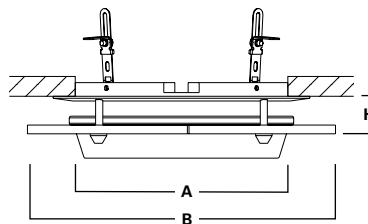| Dimensions	A	B	H
DT6	5-9/16" [141 mm]	8-3/4" [222 mm]	1-15/16" [49 mm]

Lensed

- UL listed for Wet locations
- 0.125-inch thick glass lens
- Upper surface frosted to diffuse the light

Sample Number: DT6L0

Size	Disc
DT6=6" Deco Trim	**L0**=Frosted Glass

Notes: Δ Order trim with polymer trim ring
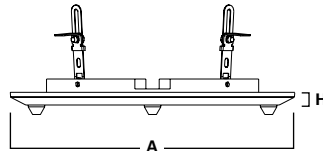
Dimensions	A	H
DT6	8-1/8" [206 mm]	3/8" [10 mm]

Translucent Ring with Funnel

- Glass and acrylic combination
- 0.250-inch thick, molded glass funnel
- Funnel has etched finish on both surfaces to diffuse light and glow
- Surrounding ring is acrylic, 0.250-inch thick
- Upper ring surface frosted to diffuse the light
- Available in a variety of color combinations

Sample Number: DT6R0F0

Size	Style/Color
DT6=6" Deco Trim	**R0F0**=Matte with Frosted Funnel **R0F1**=Matte with Cobalt Blue Glass Funnel **R1F0**=Cobalt Blue Acrylic with Frosted Funnel **R2F0**=Aqua Blue Acrylic with Frosted Funnel **R2F1**=Aqua Blue with Cobalt Blue Glass Funnel **R8F0**=Red Acrylic with Frosted Funnel **R8F1**=Red Acrylic with Cobalt Blue Glass Funnel

Notes: Δ Order trim with polymer trim ring

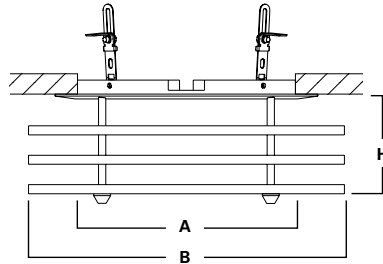| Dimensions	A	B	H
DT6	6" [152 mm]	8-3/4" [222 mm]	1-1/8" [28 mm]

## Translucent Single Ring
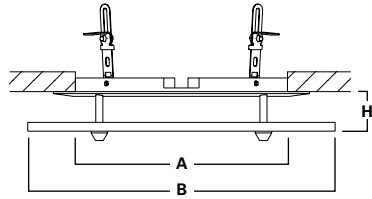
- Single decorative acrylic ring available in a choice of colors
- Ring edge polished for clean look to finished element
- 0.25-inch thick acrylic with frosted upper surface to diffuse light

Sample Number: DT6R0

Size	Color
DT6R=6" Single Ring Deco Trim	**0**=Matte **1**=Cobalt Blue **2**=Aqua Blue **8**=Ruby Red

Notes: Δ Order trim with polymer trim ring

Dimensions	A	B	H
DT6	6-1/8" [156 mm]	8-3/4" [222 mm]	2-1/4" [57 mm]

Translucent Triple Ring

- Decorative triple acrylic ring
- Ring edge polished for clean look to finished element
- 0.25-inch thick acrylic with frosted upper surface to diffuse light

Sample Number: DT63R0

Size	Color
DT63R=6" Triple Ring Deco Trim	**0**=Matte **2**=Aqua Blue Acrylic

Notes: Δ Order trim with polymer trim ring

Dimensions	A	B	H
DT6	6-1/8" [156 mm]	8-3/4" [222 mm]	2-3/4" [70 mm]

Frosted Disc
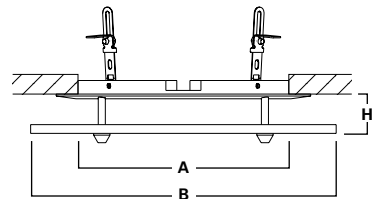
- Cut and polished glass disc
- Etched center diffuses light

Sample Number: DT6DISC

Size	Disc
DT6=6" Deco Trim	**DISC**=Etched Glass Disc

Notes: Δ Order trim with polymer trim ring

Dimensions	A	B	H
DT6	6-1/8" [156 mm]	8-3/4" [222 mm]	1-1/8" [28 mm]

Metal Trim Rings

Metal Trim Rings of .050 die-formed aluminum for recessed fixtures. Provides strength and durability. Not for use with self-flanged reflectors.

		Catalog No.
White		**TRM4P**=4" White **TRM6P**=6" White
Black (MB)		**TRM4MB**=4" Black **TRM6MB**=6" Black

Housing Slope Adapter (HSA)

Catalog No. HSA

Aperture	Height Of Plaster Ground 'A'	Ceiling Opening 'B'
4=4" Nominal housings	4-1/6"	10-3/8"
6=6" Nominal housings	4-5/16"	11-5/8"
6=6" Nominal housings for CFL	4-1/8"	11-5/8"
7=7" Nominal housings	4-7/8"	13-1/2"
8=8" Nominal housings	5-11/16"	15-3/4"
9=9" Nominal housings	5-7/16"	15-7/8"

Slope		
05=5°	20=20°	35=35°
10=10°	25=25°	40=40°
15=15°	30=30°	45=45°
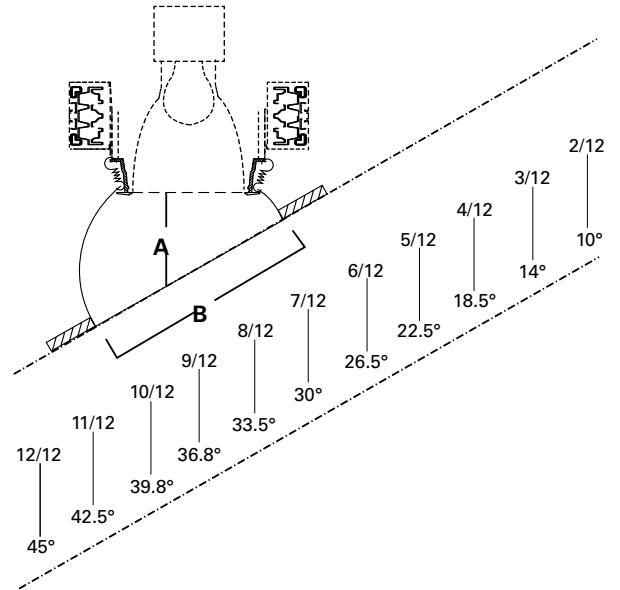
Wood Joist Bar Hangers

Catalog No.	Description
RMB22	22-inch long wood joist mounting bars for use with any recessed fixture with Universal Mounting Brackets.

C-Channel Bar Hangers

Catalog No.	Description
HB26=1-1/2" C-Channel 26" long **HB50**=1-1/2" C-Channel 50" long	For use with any recessed fixture with Universal Mounting Brackets. (2 per set)

Adapter Band Rings

Catalog No.	Description
ABR6P=Remodel Adapter Ring for 7" OD **ABR7P**=Remodel Adapter Ring for 8" OD **ABR8P**=Remodel Adapter Ring for 9" OD **ABR10P**=Remodel Adapter Ring for 11" OD	Adapter band ring for LED remodelers and retrofit kits.

Farallon LED Recessed Glass Luminaires
340 Series LED Decorative Downlights

340 Series LED Decorative Downlights feature 4-inch and 6-inch Portfolio Downlights with twelve Farallon decorative glass options, two light output choices and standard 0-10V dimming. Fixtures are designed for New Construction and utilize outer Cylindrical or Splayed Borosilicate Glass* available in various combinations of Clear and Frosted finishes, or with Shaper's exclusive sand-blasted patterns. The bottom edge of each glass trim is ground and polished to a beautiful finish. Optional inner Fluted Cylindrical Borosilicate Glass* is also available in Frosted or Clear finish.
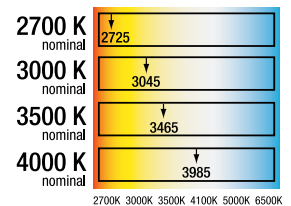
Cylindrical Frosted (CYF)

Cylindrical Clear (CYC)

Cylindrical Frosted – Catenary (CYF-CTY)

Cylindrical Frosted – Crossette (CYF-CRT)

Glass-in-a-Glass – Frosted Inside, Frosted Outside (GIG-FIFO)

Cylindrical Frosted – Quadrate (CYF-QDE)

Glass-in-a-Glass – Clear Inside, Clear Outside (GIG-CICO)

No Visible Mechanical Attachment!

Cylindrical Frosted – Spangle (CYF-SGL)

Glass-in-a-Glass – Frosted Inside, Clear Outside (GIG-FICO)

Splayed Glass Clear (SGPC)

Splayed Glass Frosted (SGPF)

Cylindrical Frosted – Division (CYF-DVN)

Features and Benefits

- Delivered lumens ranging from 900 to 1500
- Available in 2700K, 3000K, 3500K, or 4000K
- 80 or 90 CRI (90 CRI available on special request)
- Color variation within 3-step MacAdam ellipses
- Two-stage reflector system produces smooth beam

- Flexible disconnect for easy LED engine replacement and installation
- Extruded aluminum heat sink
- LED life testing completed in accordance with LM 80 standards
- Glass has tool-less installation
- 5 year warranty

*Borosilicate Glass contains 5% or more of B_2O_3 . This component creates a low coefficient of expansion in the glass, making it highly resistant to heat and shock and ideal for downlighting application.

2700 K nominal	2725
3000 K nominal	3045
3500 K nominal	3465
4000 K nominal	3985

2700K 3000K 3500K 4100K 5000K 6500K

Ordering Information:

Order New Construction Housing separately

Sample Number: 340-6-DL-LED835/1/18-120V-SCSF-ERW6-SGPC-DMR7

Series	LED	Voltage	Finish/Power Module	Glass Options	Control
340-4-DL=Recessed 4" Dowlinght **340-6-DL**=Recessed 6" Dowlinght	**LED827/1/14**=80CRI, 2700K, 900/1000 Lumens **LED827/1/18**=80CRI, 2700K, 1300/1500 Lumens **LED827/1/25HO**=80CRI, 80CRI, 3000K, 1800/2000 Lumens **LED830/1/14**=80CRI, 2700K, 900/1000 Lumens **LED830/1/18**=80CRI, 2700K, 1300/1500 Lumens **LED830/1/25HO**=80CRI, 80CRI, 3000K, 1800/2000 Lumens **LED835/1/14**=80CRI, 2700K, 900/1000 Lumens **LED835/1/18**=80CRI, 2700K, 1300/1500 Lumens **LED835/1/25HO**=80CRI, 80CRI, 3000K, 1800/2000 Lumens **LED840/1/14**=80CRI, 2700K, 900/1000 Lumens **LED840/1/18**=80CRI, 2700K, 1300/1500 Lumens **LED840/1/25HO**=80CRI, 80CRI, 3000K, 1800/2000 Lumens **Notes:** For 90 CRI, contact factory. All options above for 80 CRI.	UNV – (120-277V)	**SCSF-ERW4**=4" Module for Wide Beam, Semi Specular Clear Self-Flanged Reflector **SCSF-ERW6**=6" Module for Wide Beam, Semi Specular Clear Self-Flanged Reflector **Notes:** Trim and Power modules available only in Wide Distribution.	**SGPC**=Splayed Glass, Polished-Clear Series **SGPF**=Splayed Glass, Polished-Frosted **CYC**=Cylindrical Glass, Polished-Clear **CYF**=Cylindrical Glass, Polished-Frosted **CYF-DVN**=Cylindrical Glass, Polished-Frosted Division **CYF-QDE**=Cylindrical Glass, Polished-Frosted Quadrate **CYF-CRT**=Cylindrical Glass, Polished-Frosted Crossette **CYF-CTY**=Cylindrical Glass, Polished Frosted Catenary **CYF-SGL**=Cylindrical Glass, Polished-Frosted Spangle **GIG-FIFO**=Glass-in-a-Glass, Polished-Frosted Inside, Frosted Outside **GIG-FICO**=Glass-in-a-Glass, Polished-Frosted Inside, Clear Outside **GIG-CICO**=Glass-in-a-Glass, Polished-Clear Inside, Clear Outside	**DMR7**=0-10V Dimming with Optional TE Trailing Edge Wiring **DML**=Lutron Dimming

Eaton's Cooper Lighting Business

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5925 McLaughlin Road
Mississauga, Ontario L5R 1B8
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F: 905-501-3172

Our Lighting Product Brands

Halo
Halo Commercial
Portfolio
IRiS
RSA
Metalux
Corelite
Neo-Ray
Fail-Safe
MWS
Ametrix
Shaper
io
Lumark
McGraw-Edison
Invue
Lumière
Streetworks
AtLite
Sure-Lites

Our Controls Product Brands

Greengate
iLumin
Zero 88
Fifth Light Technology
iLight (International Only)

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