

KT-WDLED9-4XX-9CSF-FDIM-B

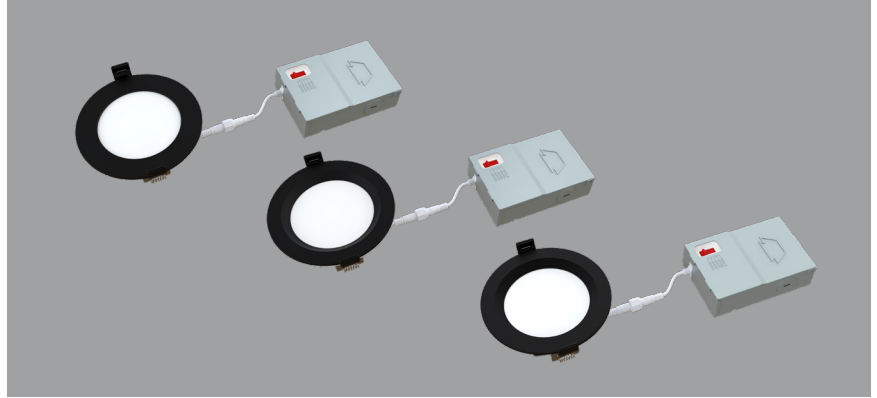
4" LED WAFER DOWNLIGHT

DESCRIPTION

4" LED Wafer Downlight | Black Housing | Color Select Technology | Remote Driver with Built-in Junction Box

APPLICATION

Ideal for residential, hospitality, retail, office, and other retrofit and new construction applications



PRODUCT FEATURES

- Keystone Color Select technologies offers SKU reduction and allows for easy, on-the-job adjustments
 - Utilizes a remote driver with built-in junction box and quick disconnect; Eliminates the need for a traditional, multi-piece fixture setup
 - CEC Compliant Flicker Rate (CEC JA10 std.)
 - Ideal for new construction, remodel, and retrofit applications
 - Flat body allows fit for shallow ceilings
 - Interchangeable trims available in matte black, brushed nickel, and bronze
 - Powered by Keystone TRIAC dimming LED driver, 10–100% dimming
 - Ambient operating temperature: -20°C/-4°F to 40°C/104°F
 - Suitable for use in wet locations
 - Airtight and Type IC-rated
 - Power factor: >0.90
 - THD: <20%
 - LED chip lifetime: L70 >80,000 hrs @ 25°C/77°F ambient fixture temp
 - FCC Part 15, Subpart B, Class B
 - Black Housing
- ** TAA options available. See Ordering Information below**

PERFORMANCE SPECIFICATIONS

Catalog Number	Input Voltage	Wattage	CCT (Selectable)*	Lumen Output	Efficacy	CRI	Power Factor	Design Designation	Beam Angle	Lifetime
KT-WDLED9-4A-9CSF-FDIM-B	120V	9W	2700K	700	79 lm/w	>90	>0.9	Smooth	110°	50,000 hrs
			3000K	729	83 lm/W					
			3500K	740	85 lm/W					
			4000K	786	90 lm/W					
			5000K	765	86 lm/W					
KT-WDLED9-4B-9CSF-FDIM-B**	120V	9W	2700K	700	79 lm/W	>90	>0.9	Recessed	110°	50,000 hrs
			3000K	725	83 lm/W					
			3500K	740	85 lm/W					
			4000K	786	90 lm/W					
			5000K	769	86 lm/W					
KT-WDLED9-4BB-9CSF-FDIM-B**	120V	9W	2700K	700	79 lm/W	>90	>0.9	Baffled	110°	50,000 hrs
			3000K	725	83 lm/W					
			3500K	740	85 lm/W					
			4000K	786	90 lm/W					
			5000K	769	86 lm/W					

*Preset to 3000K

Color Uniformity: CCT (Correlated Color Temperature) range as per guidelines outlined in ANSI C78.377-2017

**Special Order

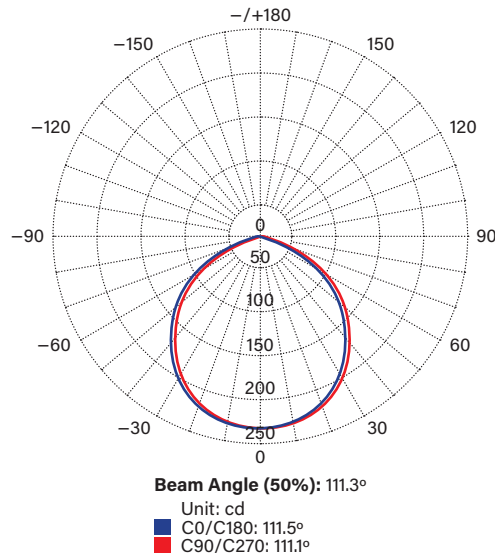
KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

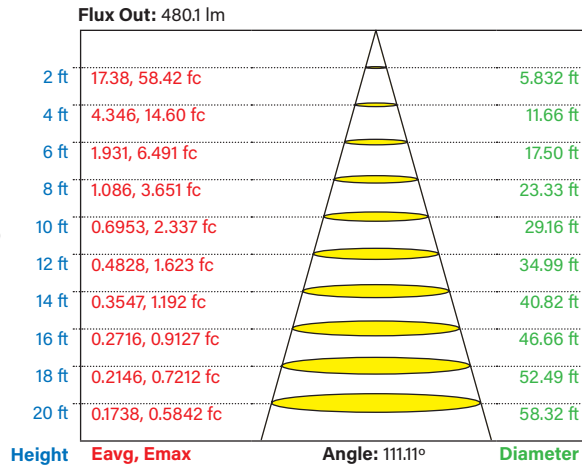
PHOTOMETRIC SPECIFICATIONS

KT-WDLED9-4A-9CSF-FDIM-B

POLAR CANDELA DISTRIBUTION



LUX DISTANCE CURVE



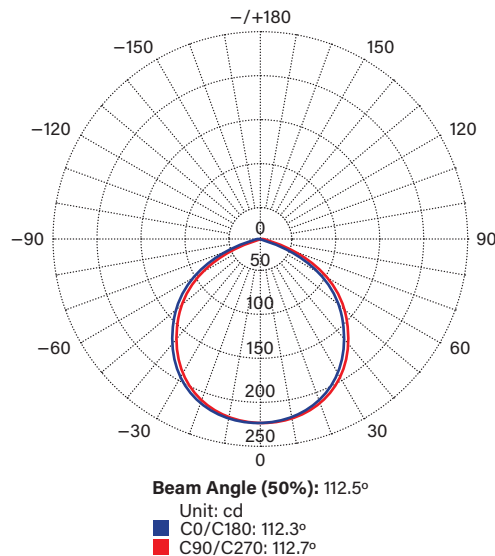
Curves show illuminated area and average illumination when lamp is at various distances.

ZONAL LUMEN SUMMARY

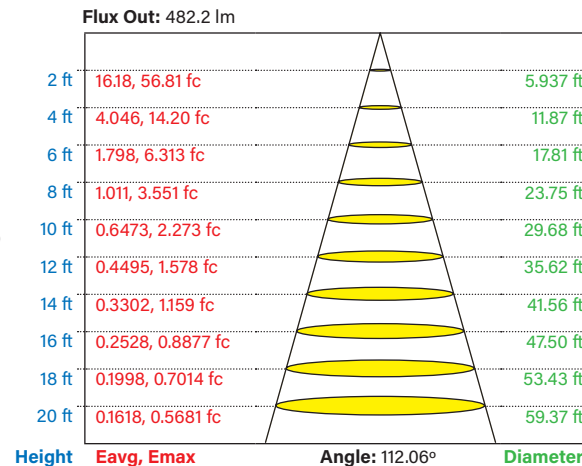
Zone	Lumens	% Luminaire
0-30	180.0	27.1%
0-40	295.5	44.3%
0-60	520.4	77.9%
60-90	147.2	22.1%
70-100	65.5	9.8%
90-120	0.0	0.0%
0-90	667.6	100.0%
90-180	0.0	0.0%
0-180	667.6	100.0%

KT-WDLED9-4B-9CSF-FDIM-B

POLAR CANDELA DISTRIBUTION



LUX DISTANCE CURVE



Curves show illuminated area and average illumination when lamp is at various distances.

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	176.6	27.4%
0-40	289.3	44.9%
0-60	511.6	79.5%
60-90	132.3	20.5%
70-100	53.6	8.3%
90-120	0.0	0.0%
0-90	643.8	100.0%
90-180	0.0	0.0%
0-180	643.8	100.0%

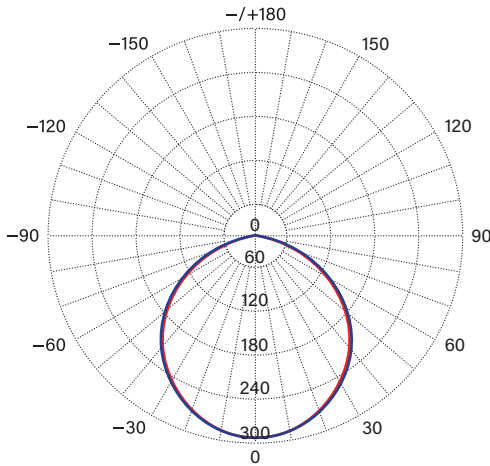
KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

PHOTOMETRIC SPECIFICATIONS (CONTINUED)

KT-WDLED9-4BB-9CSF-FDIM-B

POLAR CANDELA DISTRIBUTION



Beam Angle (50%): 111.1°

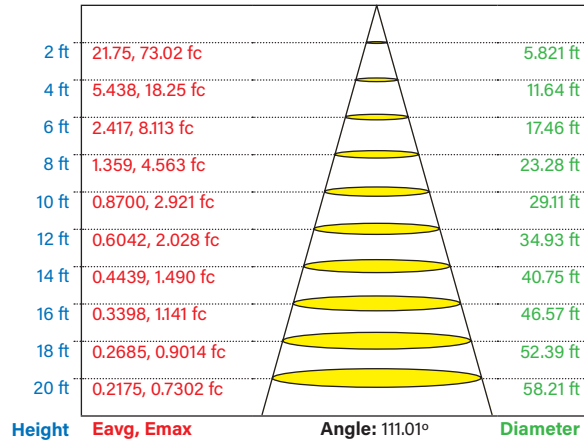
Unit: cd

■ C0/C180: 111.0°

■ C90/C270: 111.2°

LUX DISTANCE CURVE

Flux Out: 600.8 lm



Height Eavg, Emax

Angle: 111.01°

Diameter

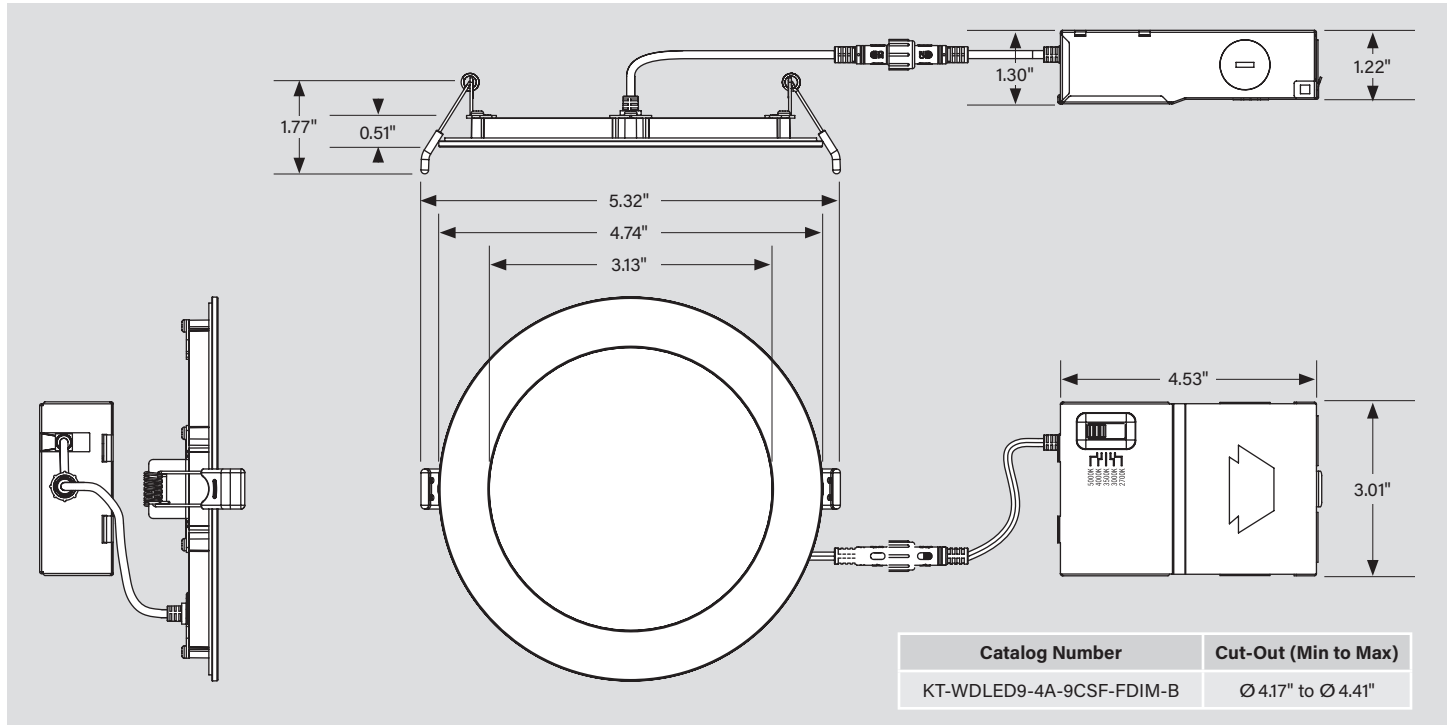
Curves show illuminated area and average illumination when lamp is at various distances.

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0-30	226.0	28.1%
0-40	369.5	45.9%
0-60	650.5	80.8%
60-90	154.1	19.2%
70-100	57.3	7.1%
90-120	0.0	0.0%
0-90	804.6	100.0%
90-180	0.0	0.0%
0-180	804.6	100.0%

PHYSICAL SPECIFICATIONS

KT-WDLED9-4A-9CSF-FDIM-B (SMOOTH)

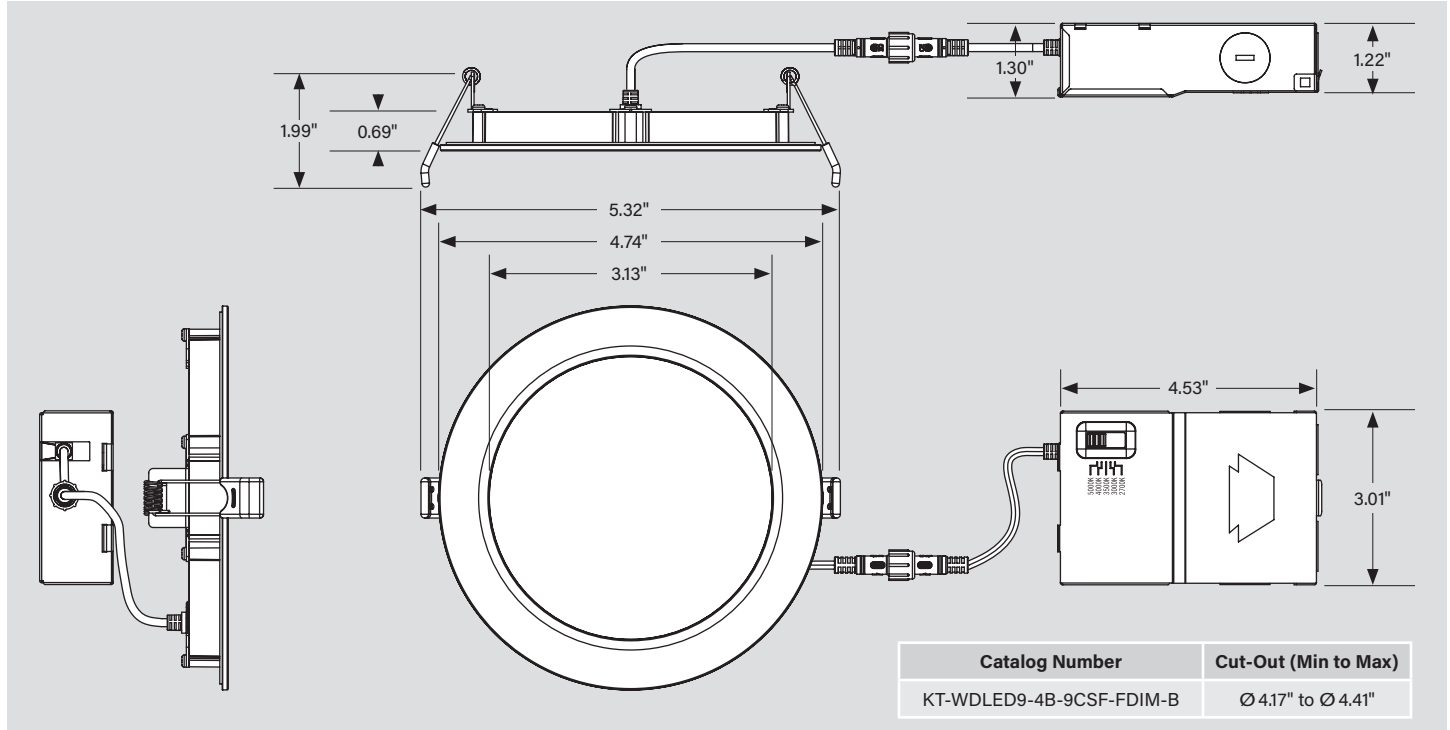


KT-WDLED9-4XX-9CSF-FDIM-B

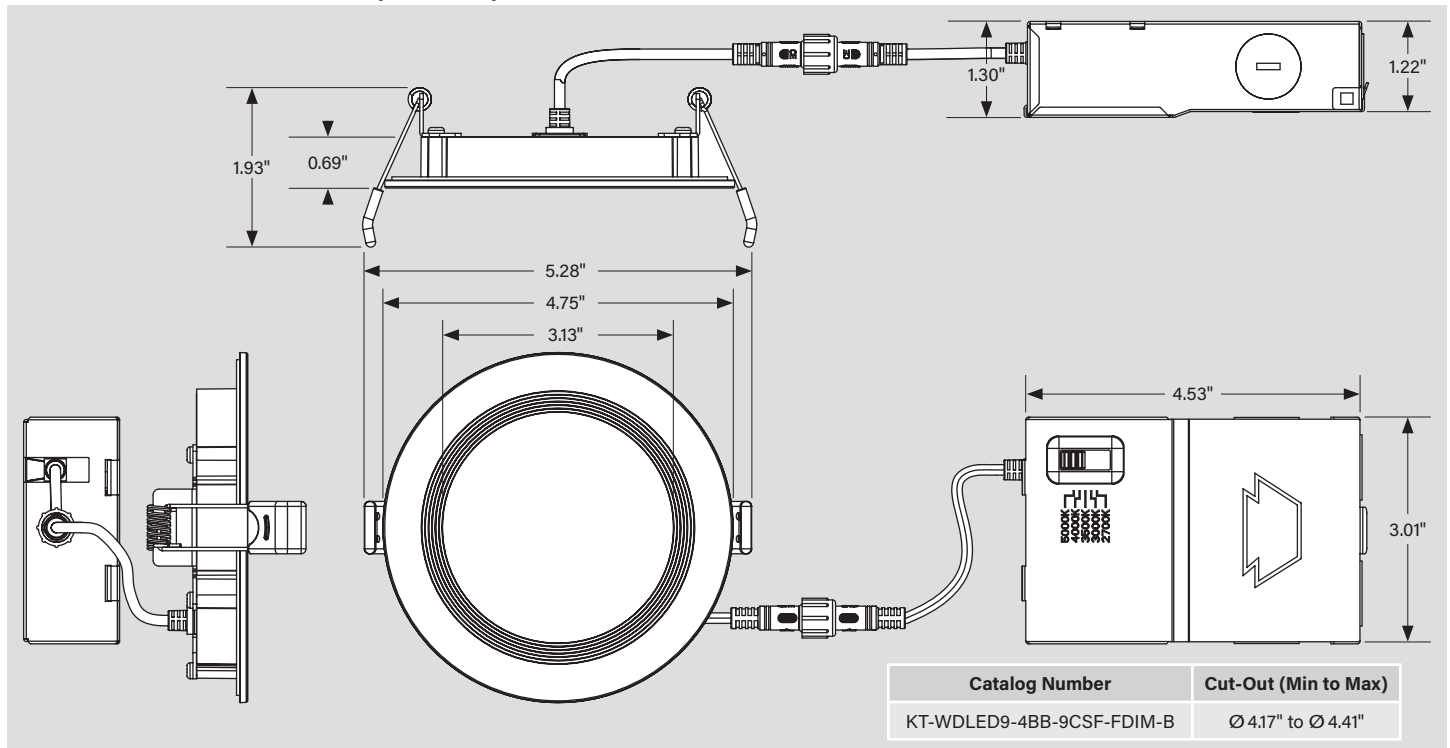
4" LED WAFER DOWNLIGHT

PHYSICAL SPECIFICATIONS (CONTINUED)

KT-WDLED9-4B-9CSF-FDIM-B (RECESSED)



KT-WDLED9-4BB-9CSF-FDIM-B (BAFFLED)



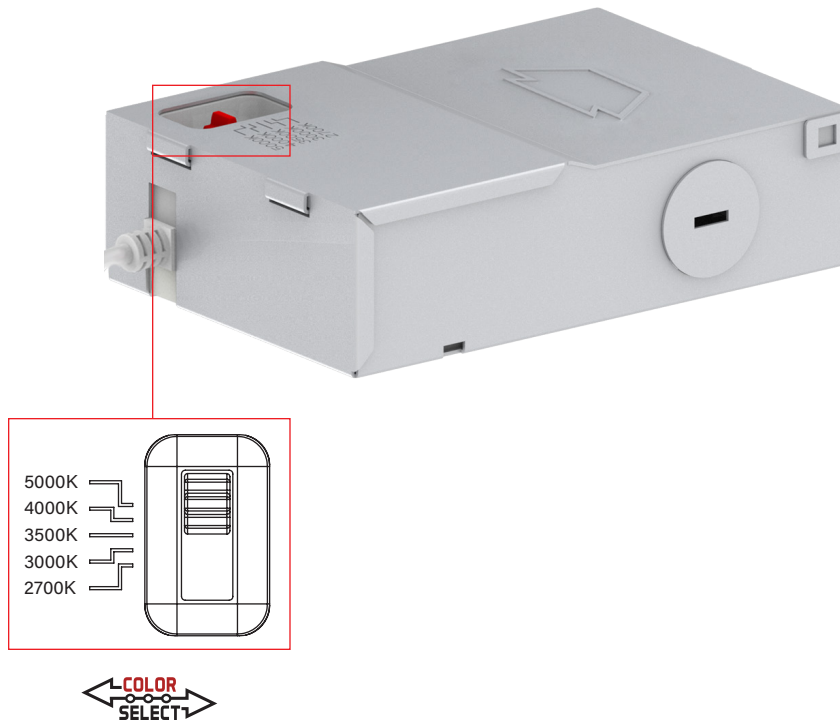
KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

COLOR SELECT (CCT) ADJUSTMENT

This fixture is equipped with field-adjustable Keystone Color Select technology.

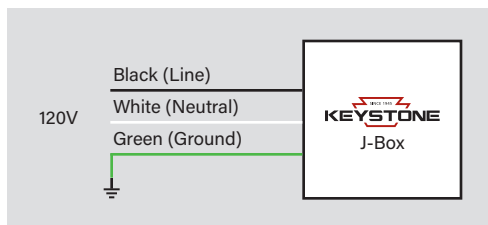
1. Ensure power is off to the fixture.
2. Adjust dip switch to desired setting.



COLOR SELECT ADJUSTMENT SWITCH

Set dip switch to adjust CCT between 2700K, 3000K, 3500K, 4000K, and 5000K. Fixture comes preset at 3000K.

WIRING DIAGRAM



KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

INSTALLATION INSTRUCTIONS

RETROFIT INSTALLATION

- 1. Shut off power at the source of the fixture housing into which you are installing fixture.**

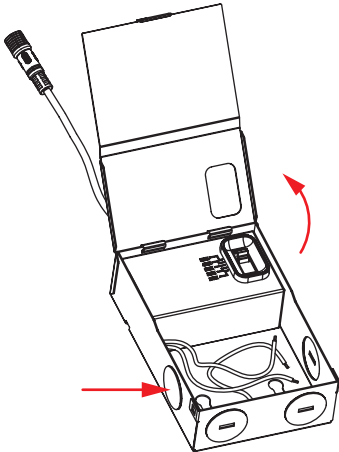
Remove existing trim, CFL or incandescent bulb.

Note: Follow all federal and local regulations when disposing of lamps and removed components.

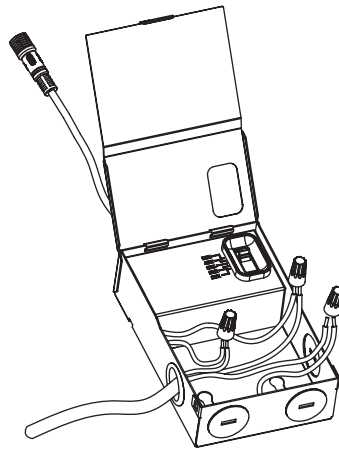
- 2. Measure ceiling opening to ensure that the edge of the luminaire will cover the entire opening and still sit firmly in the ceiling (see Dimensions on page 2).**

- 3. Select desired CCT using adjustment switch on fixture (see Color Select (CCT) Adjustment on page 3).**

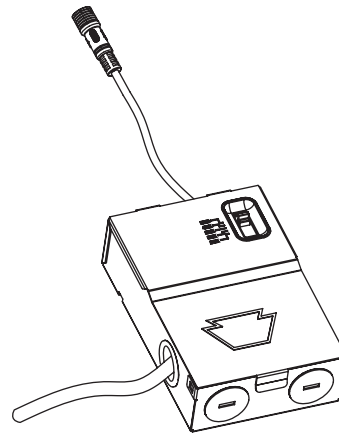
- 4. Open the driver box and remove the knockout(s) (KO).**



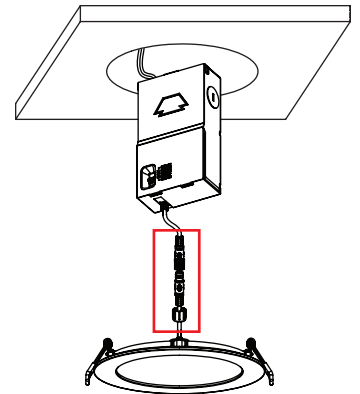
- 5. Insert the electrical supply cable through the KO; use appropriate bushing to prevent wire abrasion. Wire driver box (see Wiring Diagram on page 3 and illustration below).***



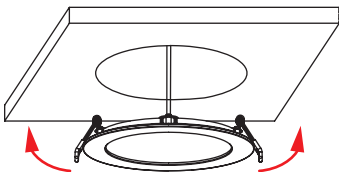
- 6. Place all wiring and connections back into the box and close the cover.**



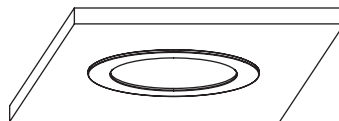
- 7. Insert driver box into ceiling in accordance with local/national codes and connect the male and female connectors. Screw threaded nut over connectors to secure.**



- 8. Lifting both retention tabs upward, push the fixture into the hole until trim sits flush with ceiling.**



- 9. Restore power when ready.**



* Keystone offers an optional cable accessory to assist with wiring to existing fixture J-box. See KT-MC-NP-1-18/3, Optional Accessories (sold separately) on page 6.

(Installation Instructions continued on next page)

KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

INSTALLATION INSTRUCTIONS (CONTINUED)

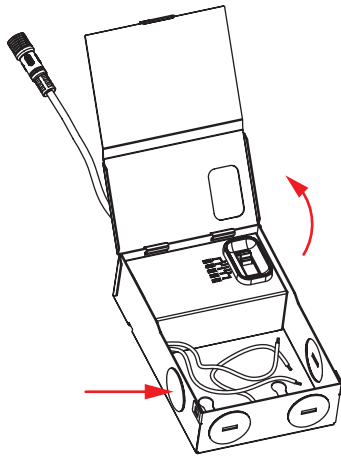
NEW-CONSTRUCTION INSTALLATION*

1. Shut off power at the source of the fixture housing into which you are installing fixture.

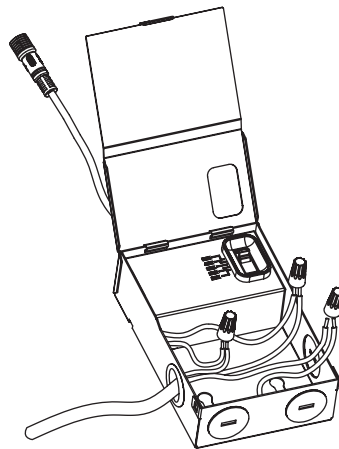
2. Using installation hole template, create ceiling opening to ensure that the edge of the luminaire will cover the entire opening and still sit firmly in the ceiling (see Dimensions on page 2).

3. Select desired CCT using adjustment switch on fixture (see Color Select (CCT) Adjustment on page 3).

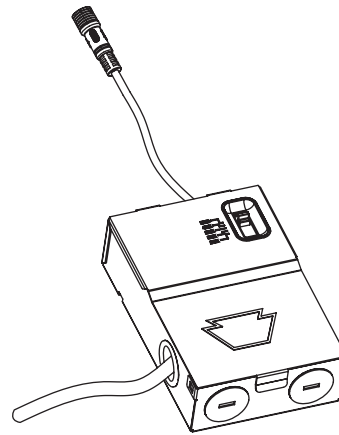
4. Open the driver box and remove the knockout(s) (KO).



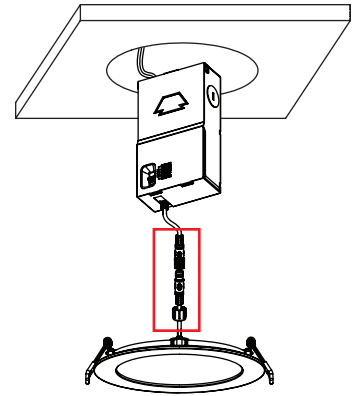
5. Insert the electrical supply cable through the KO; use appropriate bushing to prevent wire abrasion. Wire driver box (see Wiring Diagram on page 3 and illustration below).*



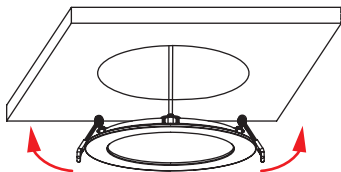
6. Place all wiring and connections back into the box and close the cover.



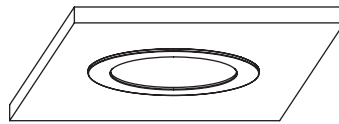
7. Insert driver box into ceiling in accordance with local/national codes and connect the male and female connectors. Screw threaded nut over connectors to secure.



8. Lifting both retention tabs upward, push the fixture into the hole until trim sits flush with ceiling.



9. Restore power when ready.



* Keystone offers an optional cable accessory to assist with wiring to existing fixture J-box. See KT-MC-NP-1-18/3, Optional Accessories (sold separately) on page 6.

KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

OPTIONAL ACCESSORIES (SOLD SEPARATELY)

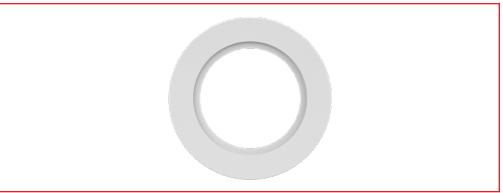
INTERCHANGEABLE TRIM

Catalog Number	Description	UPC	Easy Code
KT-WDLED-4A-MB-TRIM	4" Interchangeable Trim for 4A LED Slim Wafer Downlight; Matte Black	843654139319	ULJ-16
KT-WDLED-4A-BN-TRIM	4" Interchangeable Trim for 4A LED Slim Wafer Downlight; Brushed Nickel	843654139340	IEJ-60
KT-WDLED-4A-BR-TRIM	4" Interchangeable Trim for 4A LED Slim Wafer Downlight; Bronze	843654139371	NTI-74
KT-WDLED-4B-MB-TRIM	4" Interchangeable Trim for 4B LED Recessed Wafer Downlight; Matte Black	843654139418	RQN-42
KT-WDLED-4B-BN-TRIM	4" Interchangeable Trim for 4B LED Recessed Wafer Downlight; Brushed Nickel	843654139449	IMX-16
KT-WDLED-4B-BR-TRIM	4" Interchangeable Trim for 4B LED Recessed Wafer Downlight; Bronze	843654139470	XXG-12



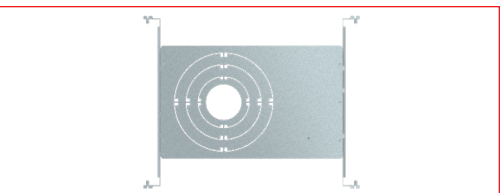
GOOF RING

Catalog Number	Description	UPC	Easy Code
KT-WDLED-4AB-GOOF	Goof Ring for 4A/4B LED Wafer Downlights; 6" outer diameter	843654139647	FRG-59



NEW-CONSTRUCTION PLATE

Catalog Number	Description	UPC	Easy Code
KT-WDLED-PLATE-2	New Construction Mounting Plate for all A and B LED Wafer Downlights for joist and T-grid installations	843654139791	FZT-71



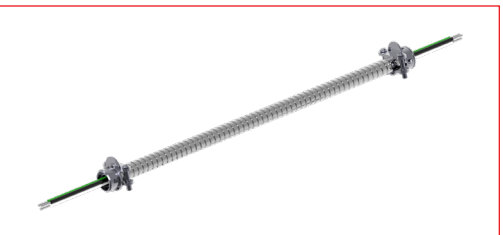
EXTENSION CABLES

Catalog Number	Description	UPC	Easy Code
KT-WDLED-EC-6	6' Extension Cord for LED Wafer Downlights	843654139739	GOK-14
KT-WDLED-EC-12	12' Extension Cord for LED Wafer Downlights	843654139746	ECE-88
KT-WDLED-EC-20	20' Extension Cord for LED Wafer Downlights	843654139753	JLM-06



METAL-CLAD CABLE

Catalog Number	Description	UPC	Easy Code
KT-MC-NP-1-18/3	Metal-Clad Cable for LED Recessed Downlights; No plug; UL 16AWG 18/3 wire (live, neutral, ground)	843654139777	AYT-71



(Optional Accessories continued on next page)



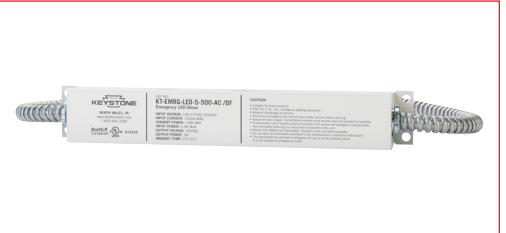
KT-WDLED9-4XX-9CSF-FDIM-B

4" LED WAFER DOWNLIGHT

OPTIONAL ACCESSORIES (SOLD SEPARATELY) (CONTINUED)

EMERGENCY PACK

Catalog Number	Description	UPC	Easy Code
KT-EMRG-LED-5-500-AC /DF	LED Emergency Backup, 5W - 500 Lumen Constant Power Design. 120-277V Input. Dual Flex Cable Design. Installs on Primary Side of AC Powered LED load.	843654120843	DUE-53



ORDERING INFORMATION

Catalog Number	Pack Qty.	UPC	Easy Code
KT-WDLED9-4A-9CSF-FDIM-B*	1	843654173429	YDW-88
KT-WDLED9-4A-9CSF-FDIM-B /TAA	1	TBD	TBD
KT-WDLED9-4B-9CSF-FDIM-B*	1	843654173436	FLV-18
KT-WDLED9-4B-9CSF-FDIM-B /TAA*	1	TBD	TBD
KT-WDLED9-4BB-9CSF-FDIM-B*	1	843654173443	EGY-10
KT-WDLED9-4BB-9CSF-FDIM-B /TAA*	1	TBD	TBD

*Special Order

CATALOG NUMBER BREAKDOWN

KT-WDLED9-4XX-9CSF-FDIM-B

1	2	3	4	5	6	7	8	9	10	11	12
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1 Keystone Technologies

2 Fixture Type

3 LED Technology

4 Maximum Wattage

5 Size

6 Style/Design Designation

7 CRI

8 Color Select Technology

9 Color Select Designation

10 Dimming

11 Housing Color

12 TAA Compliant

2 Fixture Type

WD

Wafer Downlight

5 Size

4

4" Nominal

6 Style/Design Designation

A

Smooth

B

Recessed

BB

Baffled

7 CRI

9

90

9 Color Select Designation

F

2700K, 3000K, 3500K, 4000K, 5000K

10 Dimming

FDIM

Phase Dimming

11 Housing Color

B

Black

12 TAA Compliant

/TAA

Made in Cambodia