SINCE 1945 KEYSTONE LIGHT MADE EASY | CIRCA | COLOR SELECT

KT-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

DESCRIPTION

6" LED Wafer Downlight |
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 @ 25ºC/77ºF ambient fixture temp
- FCC Part 15, Subpart B, Class B

PERFORMANCE SPECIFICATIONS

Catalog Number	Input Voltage	Wattage	CCT (Selectable)*	Lumen Output	Efficacy	CRI	Power Factor	Design Designation	Beam Angle	Lifetime
KT-WDLED13-6A-9CSF-FDIM	120V	13W	2700K	1,222	94 lm/w	>90	>0.9	Smooth	110º	50,000 hrs
			3000K	1,259	97 lm/W					
			3500K	1,278	98 lm/W					
			4000K	1,272	98 lm/W					
			5000K	1,206	93 lm/W					
KT-WDLED13-6B-9CSF-FDIM	120V	13W	2700K	1,003	80 lm/w	>90	>0.9	Recessed	110º	50,000 hrs
			3000K	1,042	83 lm/W					
			3500K	1,110	90 lm/W					
			4000K	1,140	92 lm/W					
			5000K	1,131	89 lm/W					
KT-WDLED13-6BB-9CSF-FDIM	120V	13W	2700K	1,003	80 lm/w	>90	>0.9	Baffled	110º	50,000 hrs
			3000K	1,042	83 lm/W					
			3500K	1,110	90 lm/W					
			4000K	1,140	92 lm/W					
			5000K	1,131	89 lm/W					

**Preset to 3000K*
Color Uniformity: CCT (Correlated Color Temperature) range as per guidelines outlined in ANSI C78.377-2017

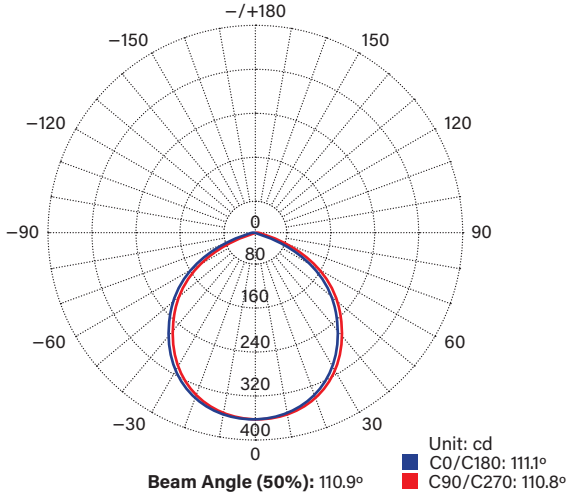
KT-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

PHOTOMETRIC SPECIFICATIONS

KT-WDLED13-6A-9CSF-FDIM

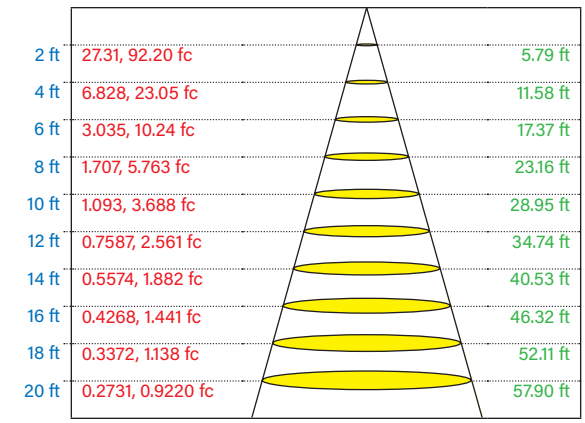
POLAR CANDELA DISTRIBUTION



Beam Angle (50%): 110.9°

LUX DISTANCE CURVE

Flux Out: 754.4 lm



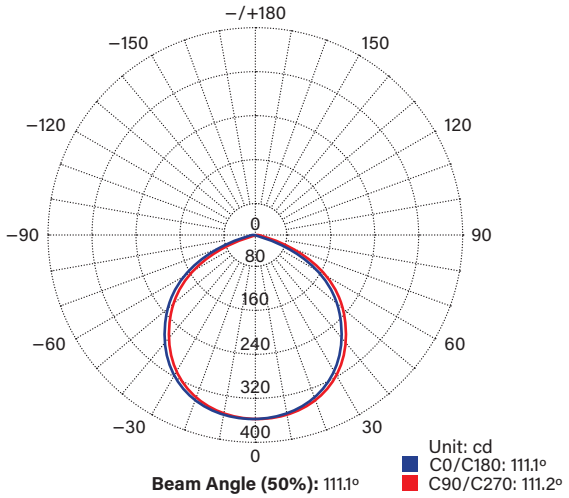
Height	Eavg, Emax	Diameter
2 ft	27.31, 92.20 fc	5.79 ft
4 ft	6.828, 23.05 fc	11.58 ft
6 ft	3.035, 10.24 fc	17.37 ft
8 ft	1.707, 5.763 fc	23.16 ft
10 ft	1.093, 3.688 fc	28.95 ft
12 ft	0.7587, 2.561 fc	34.74 ft
14 ft	0.5574, 1.882 fc	40.53 ft
16 ft	0.4268, 1.441 fc	46.32 ft
18 ft	0.3372, 1.138 fc	52.11 ft
20 ft	0.2731, 0.9220 fc	57.90 ft

Angle: 110.72°

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

KT-WDLED13-6B-9CSF-FDIM

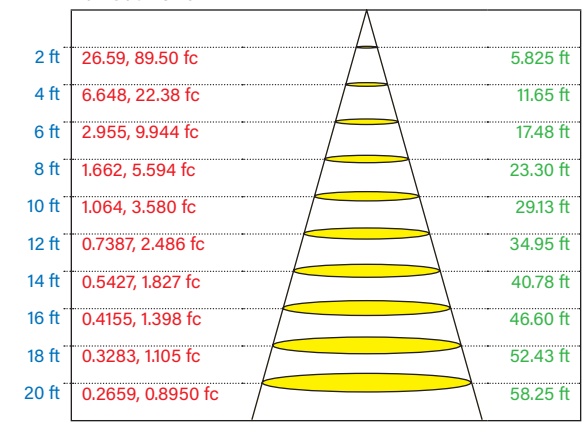
POLAR CANDELA DISTRIBUTION



Beam Angle (50%): 111.1°

LUX DISTANCE CURVE

Flux Out: 734.5 lm



Height	Eavg, Emax	Diameter
2 ft	26.59, 89.50 fc	5.825 ft
4 ft	6.648, 22.38 fc	11.65 ft
6 ft	2.955, 9.944 fc	17.48 ft
8 ft	1.662, 5.594 fc	23.30 ft
10 ft	1.064, 3.580 fc	29.13 ft
12 ft	0.7387, 2.486 fc	34.95 ft
14 ft	0.5427, 1.827 fc	40.78 ft
16 ft	0.4155, 1.398 fc	46.60 ft
18 ft	0.3283, 1.105 fc	52.43 ft
20 ft	0.2659, 0.8950 fc	58.25 ft

Angle: 111.05°

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

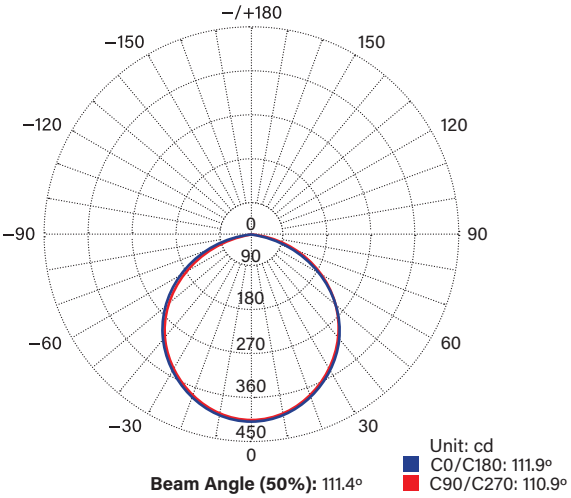
KT-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

PHOTOMETRIC SPECIFICATIONS (CONTINUED)

KT-WDLED13-6BB-9CSF-FDIM

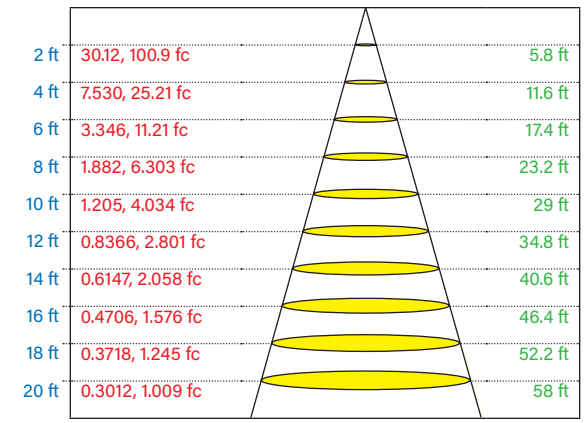
POLAR CANDELA DISTRIBUTION



Beam Angle (50%): 111.4°

LUX DISTANCE CURVE

Flux Out: 831.9 lm



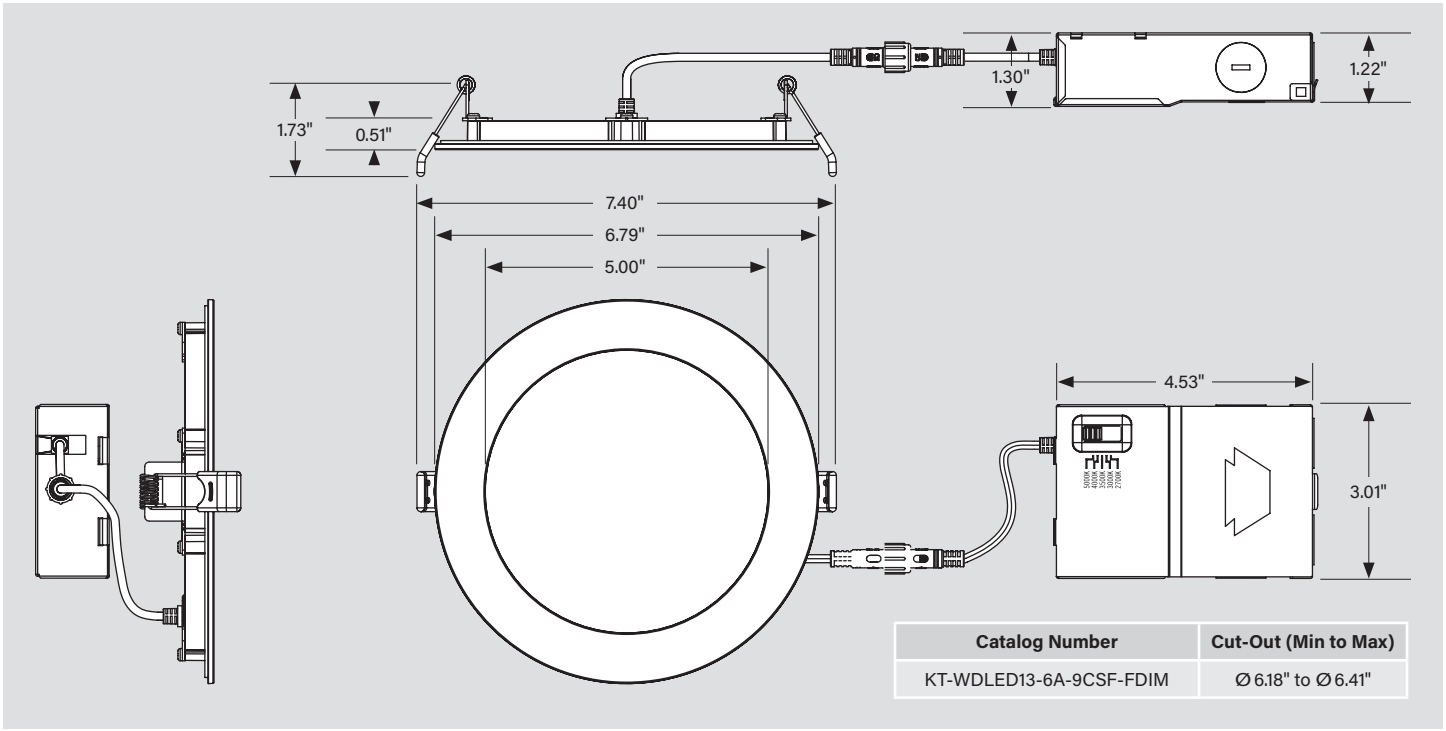
Height	Eavg, Emax	Diameter
2 ft	30.12, 100.9 fc	5.8 ft
4 ft	7.530, 25.21 fc	11.6 ft
6 ft	3.346, 11.21 fc	17.4 ft
8 ft	1.882, 6.303 fc	23.2 ft
10 ft	1.205, 4.034 fc	29 ft
12 ft	0.8366, 2.801 fc	34.8 ft
14 ft	0.6147, 2.058 fc	40.6 ft
16 ft	0.4706, 1.576 fc	46.4 ft
18 ft	0.3718, 1.245 fc	52.2 ft
20 ft	0.3012, 1.009 fc	58 ft

Angle: 110.82°

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

PHYSICAL SPECIFICATIONS

KT-WDLED13-6A-9CSF-FDIM (SMOOTH)



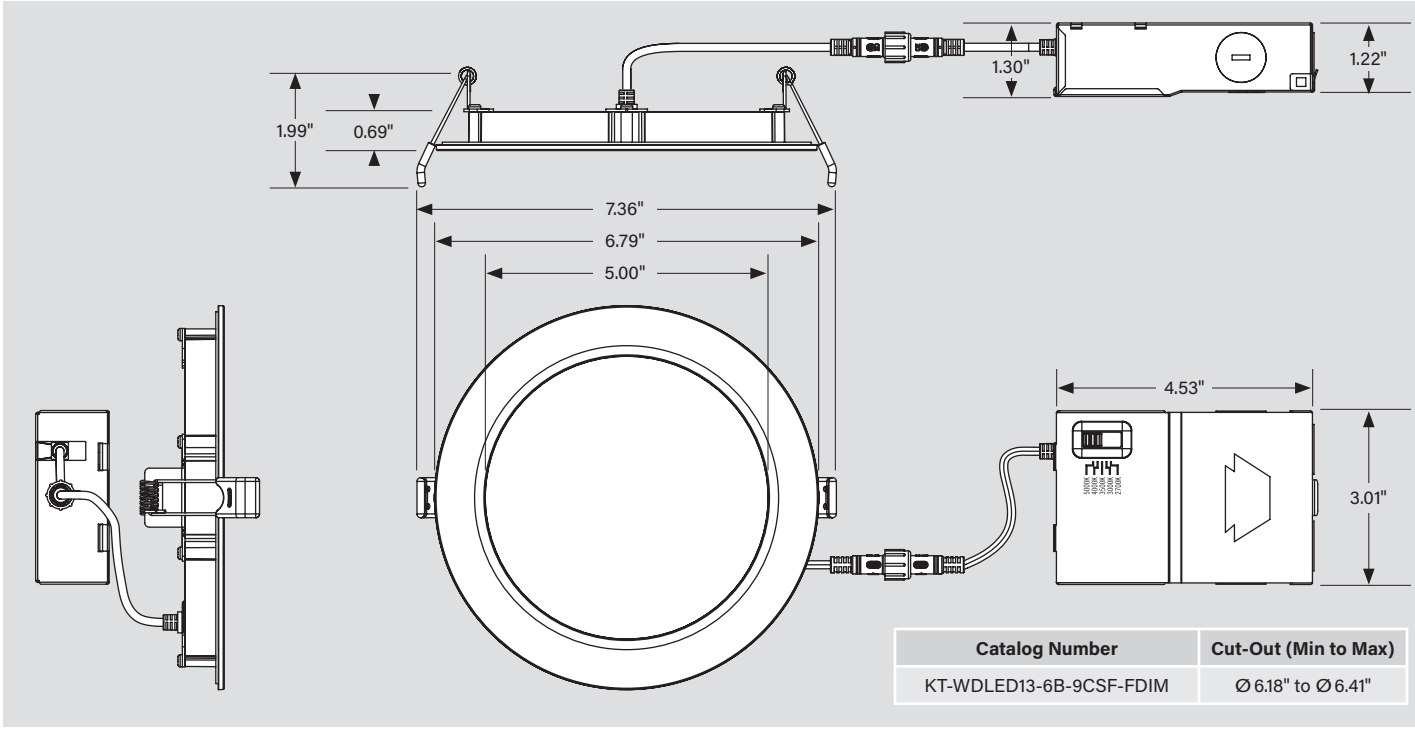
Catalog Number	Cut-Out (Min to Max)
KT-WDLED13-6A-9CSF-FDIM	Ø 6.18" to Ø 6.41"

KT-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

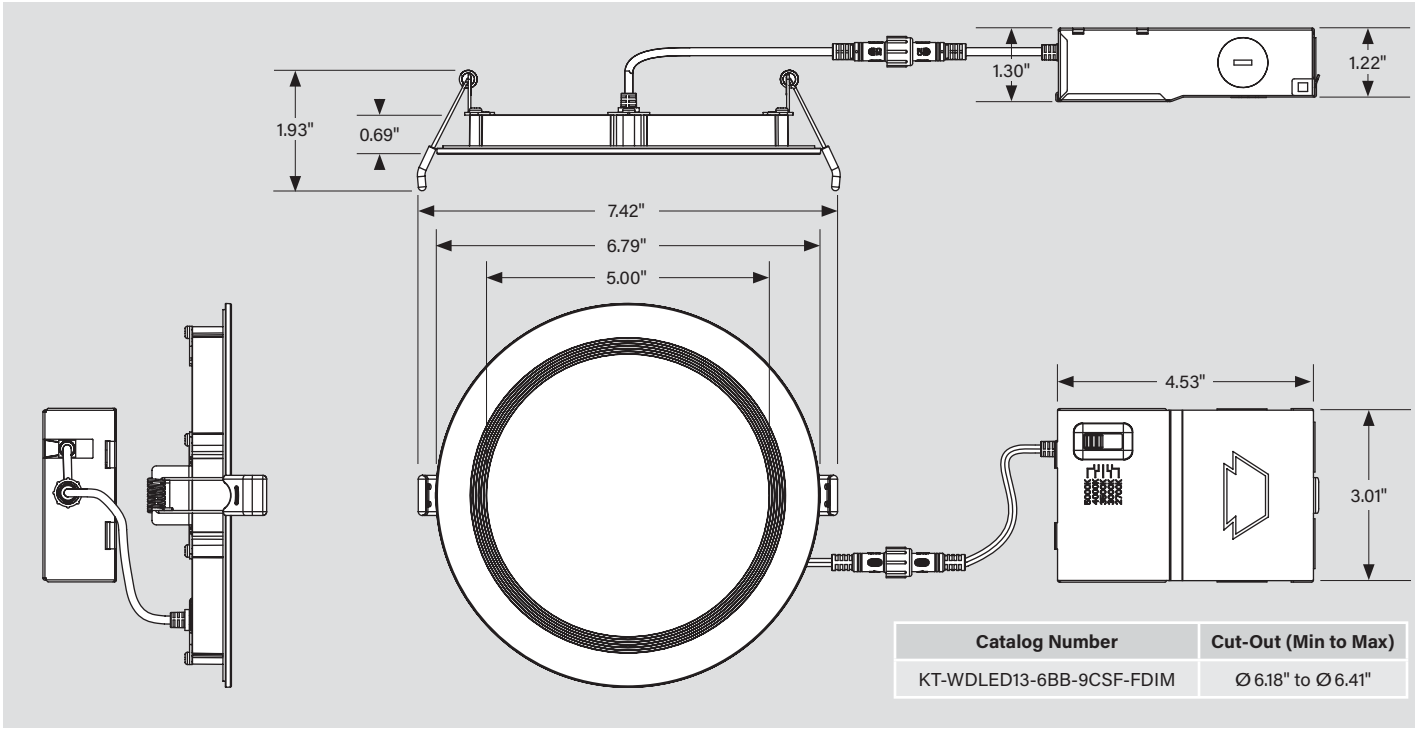
PHYSICAL SPECIFICATIONS (CONTINUED)

KT-WDLED13-6B-9CSF-FDIM (RECESSED)



Catalog Number	Cut-Out (Min to Max)
KT-WDLED13-6B-9CSF-FDIM	Ø 6.18" to Ø 6.41"

KT-WDLED13-6BB-9CSF-FDIM (BAFFLED)



Catalog Number	Cut-Out (Min to Max)
KT-WDLED13-6BB-9CSF-FDIM	Ø 6.18" to Ø 6.41"

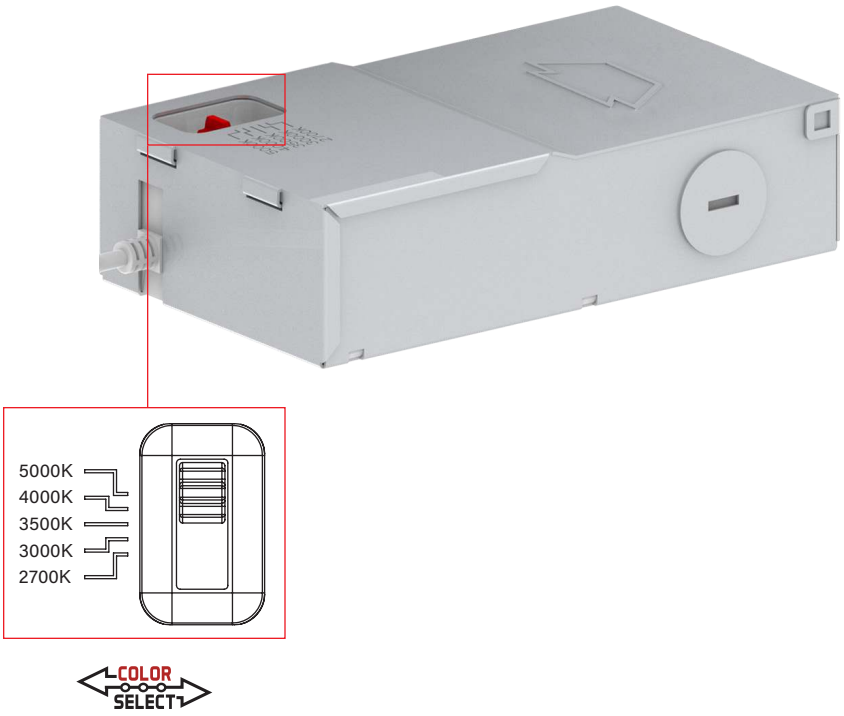
KT-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

COLOR SELECT (CCT) ADJUSTMENT

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

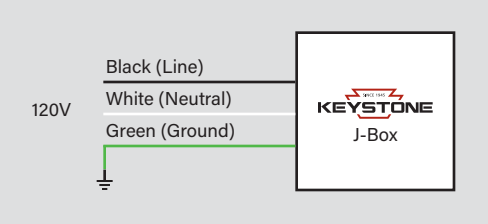
1. Ensure power is off to the fixture.
2. Adjust dip switch to desired setting.



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-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

INSTALLATION INSTRUCTIONS

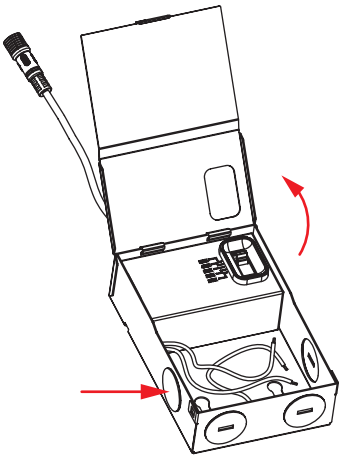
RETROFIT INSTALLATION

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.

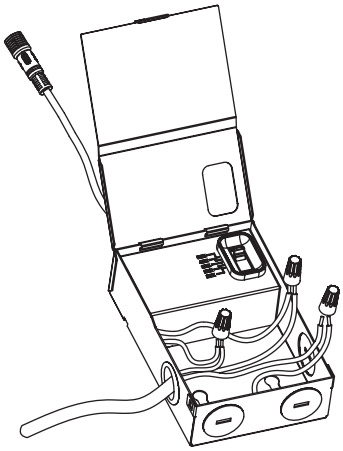
2. Measure ceiling opening to ensure that the edge of the luminaire will cover the entire opening and still sit firmly in the ceiling (see *Dimensions* on page 2).

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

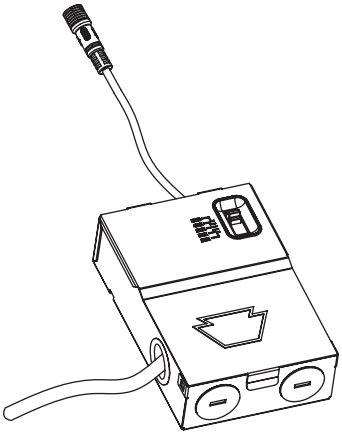
4. Open the driver box and remove the knockout(s) (KO).



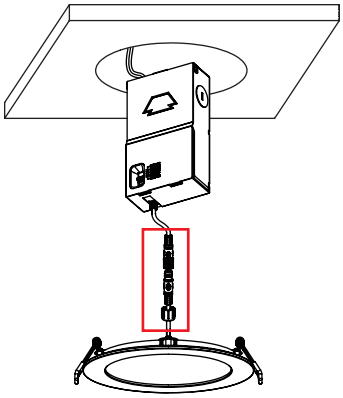
5. Insert the electrical supply cable through the KO; use appropriate bushing to prevent wire abrasion. Wire driver box (see *Wiring Diagram* on page 3 and illustration below).*



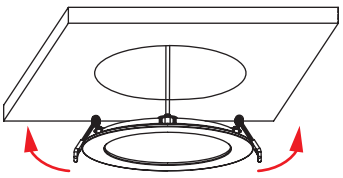
6. Place all wiring and connections back into the box and close the cover.



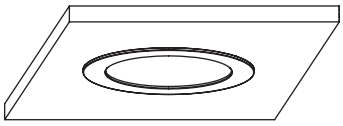
7. Insert driver box into ceiling in accordance with local/national codes and connect the male and female connectors. Screw threaded nut over connectors to secure.



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-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

INSTALLATION INSTRUCTIONS (CONTINUED)

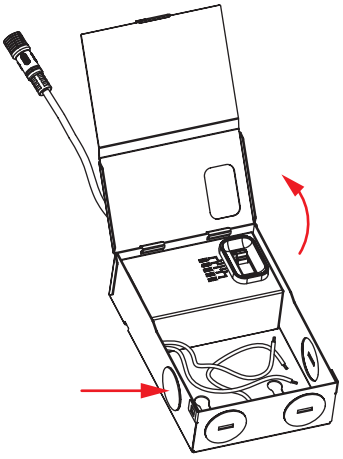
NEW-CONSTRUCTION INSTALLATION*

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

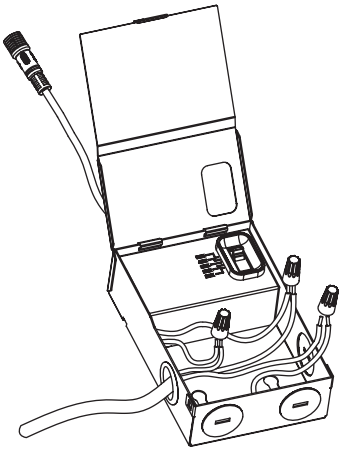
2. Using installation hole template, create ceiling opening to ensure that the edge of the luminaire will cover the entire opening and still sit firmly in the ceiling (see *Dimensions* on page 2).

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

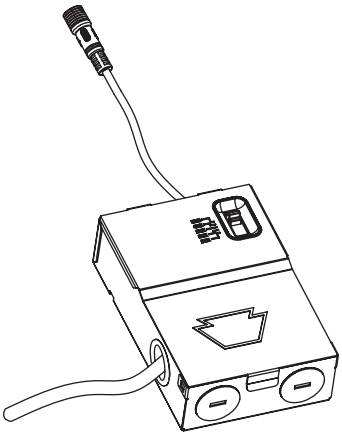
4. Open the driver box and remove the knockout(s) (KO).



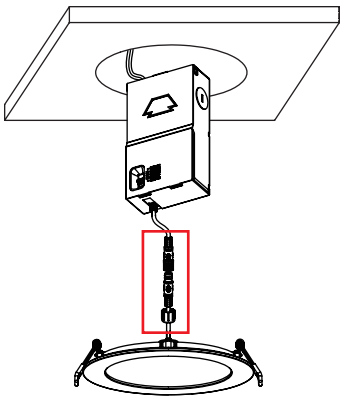
5. Insert the electrical supply cable through the KO; use appropriate bushing to prevent wire abrasion. Wire driver box (see *Wiring Diagram* on page 3 and illustration below).*



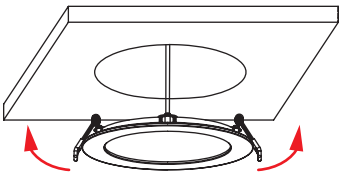
6. Place all wiring and connections back into the box and close the cover.



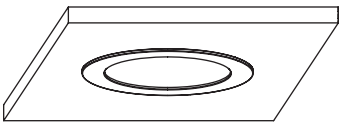
7. Insert driver box into ceiling in accordance with local/ national codes and connect the male and female connectors. Screw threaded nut over connectors to secure.



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.*

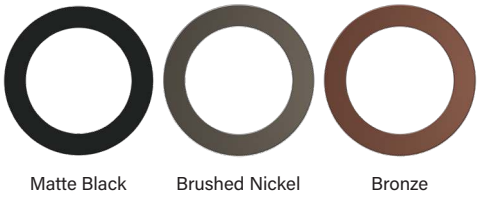
KT-WDLED13-6XX-9CSF-FDIM

6" LED WAFER DOWNLIGHT

OPTIONAL ACCESSORIES (SOLD SEPARATELY)

INTERCHANGEABLE TRIM

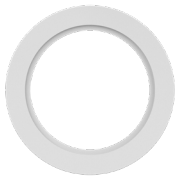
Catalog Number	Description	UPC	Easy Code
KT-WDLED-6A-MB-TRIM	6" Interchangeable Trim for 6A LED Slim Wafer Downlight; Matte Black	843654139326	IFV-73
KT-WDLED-6A-BN-TRIM	6" Interchangeable Trim for 6A LED Slim Wafer Downlight; Brushed Nickel	843654139357	PJM-11
KT-WDLED-6A-BR-TRIM	6" Interchangeable Trim for 6A LED Slim Wafer Downlight; Bronze	843654139388	RXK-07
KT-WDLED-6B-MB-TRIM	6" Interchangeable Trim for 6B LED Recessed Wafer Downlight; Matte Black	843654139425	WDA-66
KT-WDLED-6B-BN-TRIM	6" Interchangeable Trim for 6B LED Recessed Wafer Downlight; Brushed Nickel	843654139456	SDC-23
KT-WDLED-6B-BR-TRIM	6" Interchangeable Trim for 6B LED Recessed Wafer Downlight; Bronze	843654139487	HEB-17





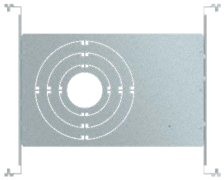
GOOF RING

Catalog Number	Description	UPC	Easy Code
KT-WDLED-6AB-GOOF	Goof Ring for 6A/6B LED Wafer Downlights; 8" outer diameter	843654139654	MKE-35



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



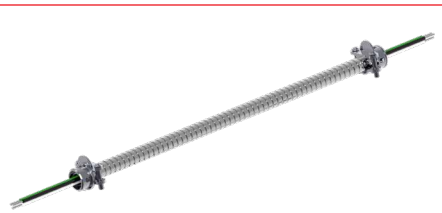
EXTENSION CABLES

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-WDLED13-6XX-9CSF-FDIM

6" 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-WDLED13-6A-9CSF-FDIM	1	843654139074	QQF-09
KT-WDLED13-6B-9CSF-FDIM	1	843654139111	RSZ-46
KT-WDLED13-6BB-9CSF-FDIM	1	843654169156	EIB-56

CATALOG NUMBER BREAKDOWN

KT-WDLED13-6XX-9CSF-FDIM

1 2 3 4 5 6 7 8 9 10

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**

2 Fixture Type

WD	Wafer Downlight

5 Size

6	6" 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