

MINI 1.5 | RECESSED DOWNLIGHT



MATERIAL

Aluminum Die-Casting, Electrostatic Powder Coating

SOURCE INFORMATION

SOURCE LUMENS	Up to 1359lm
DELIVERED LUMENS	Up to 1075lm
CONSUMPTION	Up to 13W
CURRENT	500mA
INPUT VOLTAGE	120VAC-277VAC
DIMMING	TRIAC/ELV / 0-10V (1%) / 10V PWM
CRI	90+
COLOR TEMP-CCT	2700K/3000K/3500K/4000K/ DW (DIM TO WARM)
OPERATING TEMP	32°F to 77°F

OPERATING TEMPERATURE Luminaire should be installed and operated ONLY in dry environments where the ambient temperature ranges from 32°F to 77°F (0°C to 25°C). Luminaire operation in environments outside the listed temperature range voids the warranty AND may damage the product or adversely impact lamp life, lumen output and color consistency.

TYPE OF LED

COB by Bridgelux

WARRANTY

5 years



FIXED



ADJUSTABLE



WALLWASH

ROUND

FLANGED TRIM



FLANGELESS TRIM



SQUARE

FLANGED TRIM



FLANGELESS TRIM



LENS BEAM ANGLE



15°
Spot



24°
Narrow Flood



36°
Flood



60°
Wide Flood

TRIM FINISH



Black



White



Custom

Fixture type:

Job information:

CONSTELLATION

MINI 1.5 – RECESSED DOWNLIGHT



PRODUCT DEFINITION SHEET

1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16

LIGHT ENGINE

1	2	3	4
SERIES	LIGHT ENGINE TYPE	COLOR TEMP-CCT (90 CRI)	LENS BEAM ANGLE
☐ CTL-M Constellation Mini	☐ 1.5 1.5 High Efficiency Standard ☐ 1.5S 1.5 High Efficiency Shallow	☐ 27K 2700K ☐ 30K 3000K ☐ 35K 3500K ☐ 40K 4000K ☐ DM Dim to Warm	☐ 15 15° Spot ☐ 24 24° Narrow ☐ 36 36° Flood ☐ 60 60° Wide Flood

TRIM

5	6	7	8	9
TRIM SHAPE	REFLECTOR TYPE	MOUNTING PAN	REFLECTOR - INSERT	TRIM FINISH
☐ RD Round ☐ SQ Square	☐ FX Fixed ☐ AD Adjustable ☐ WW Wall Wash	☐ TF Flanged Trim ☐ TL Flangeless Trim	☐ OP Open	☐ ☐ WH White ☐ ☐ BK Black ☐ ☐ CS Custom RAL No. _____

HOUSING / POWER

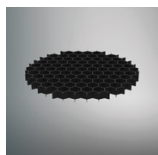
10	11	12	13	14
LUMEN OUTPUT	DIMMING	VOLTAGE	STANDBY MODULES	INSTALLATION TYPE
WALLWASH & DIM TO WARM ☐ 2L 200lm ☐ 3L 300lm ☐ 4L 400lm FIXED & ADJUSTABLE ☐ 7L 700lm ☐ 8L 800lm ☐ 9L 900lm ☐ 10L 1000lm	☐ V10 0-10V ☐ TLV TRIAC/ELV ☐ PWM 10V PWM For other dimming options contact Mercury	☐ U Uni 120-277V	☐ EM10 Emergency Battery Pack 10W ☐ EM12 Emergency Battery Pack 12W ☐ NO OPTION Remote Emergency Battery Pack, for field install	☐ RM Remote ☐ NCNIC New Construction Non-IC Frame ☐ NCIC New construction IC

See pages 3 to 10 for light engine output available

ACCESORIES

15	16
OPTICS ACCESSORY	LIGHT ENGINES
☐ NN None ☐ HL Honeycomb louver + PC sheet ☐ SG Striped Glass Lens	☐ SG Single

Accessories are not suitable for wallwash fixtures



Honeycomb louver + PC sheet



Striped Glass

CONSTELLATION

MINI 1.5 - RECESSED DOWNLIGHT



ROUND FLANGED TRIM (STANDARD LIGHT ENGINE)



FIXED 1.5-RD-FX-TF-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	824lm	864lm	887lm	438lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



WET
LOCATION

ADJUSTABLE (30°) 1.5-RD-AD-TF-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	793lm	842lm	854lm	406lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DAMP
LOCATION

WALLWASH 1.5-RD-WW-TF-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15° only			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	396lm	424lm	427lm	273lm

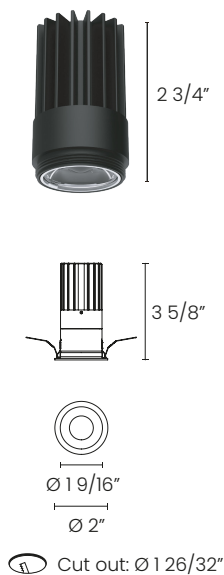
Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%

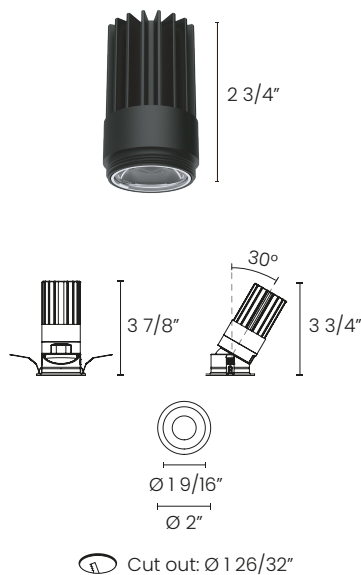


WET
LOCATION

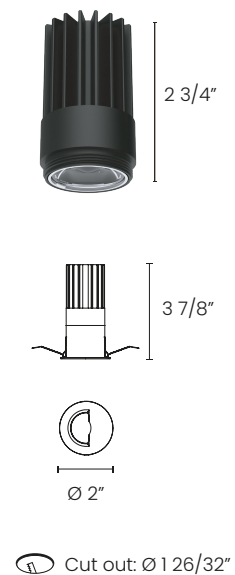
DIMENSIONS



DIMENSIONS



STANDARD LIGHT ENGINE



CONSTELLATION

MINI 1.5 - RECESSED DOWNLIGHT



ROUND FLANGED TRIM (SHALLOW LIGHT ENGINE)

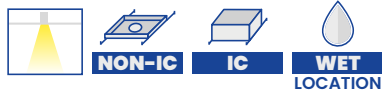


FIXED 1.5S-RD-FX-TF-OP

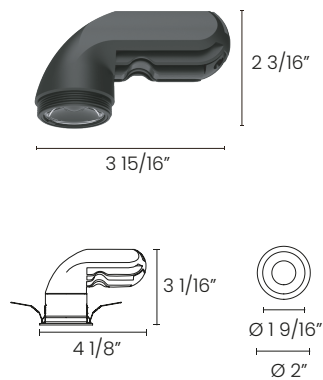
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	970lm	1032lm	1045lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



⌀ 1 26/32"

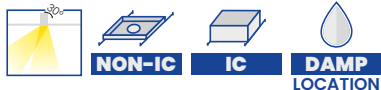


ADJUSTABLE (30°) 1.5S-RD-AD-TF-OP

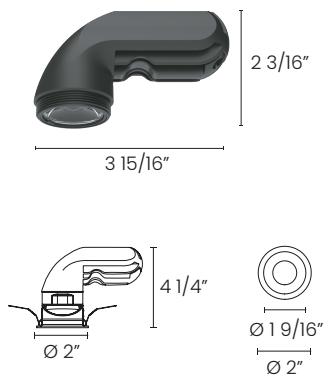
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	934lm	995lm	1007lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



⌀ 1 26/32"

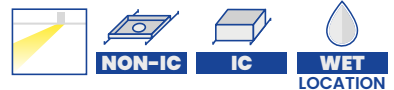


WALLWASH 1.5S-RD-WW-TF-OP

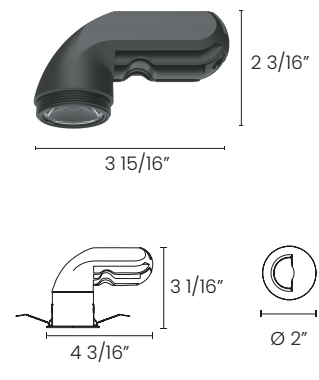
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15° only		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	567lm	608lm	612lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



⌀ 1 26/32"

CONSTELLATION

MINI 1.5 - RECESSED DOWNLIGHT



ROUND FLANGELESS TRIM (STANDARD LIGHT ENGINE)

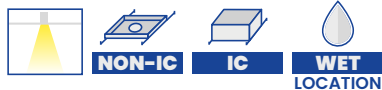


FIXED 1.5-RD-FX-TL-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	824lm	864lm	887lm	464lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%

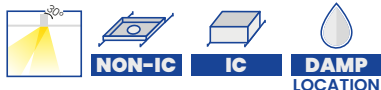


ADJUSTABLE (30°) 1.5-RD-AD-TL-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	793lm	842lm	854lm	406lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%

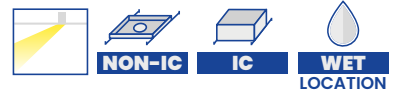


WALLWASH 1.5-RD-WW-TL-OP

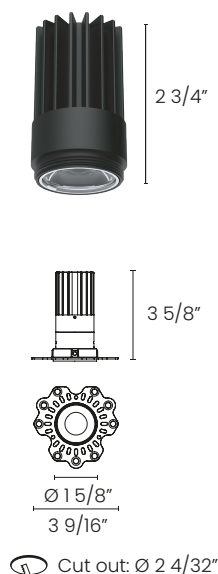
CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15° only			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	396lm	424lm	427lm	273lm

Multiplier for Optics Accessories

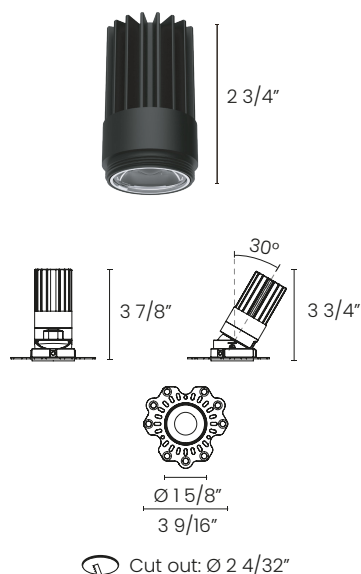
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



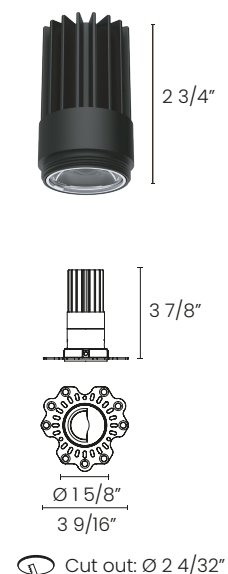
DIMENSIONS



DIMENSIONS



DIMENSIONS



CONSTELLATION

MINI 1.5 – RECESSED DOWNLIGHT



ROUND FLANGELESS TRIM (SHALLOW LIGHT ENGINE)



FIXED	1.5S-RD-FX-TL-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	970lm	1032lm	1045lm

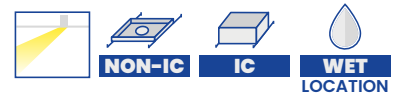
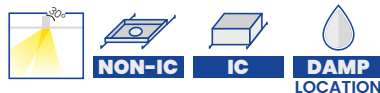
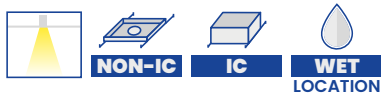
ADJUSTABLE (30°)	1.5S-RD-AD-TL-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	934lm	995lm	1007lm

WALLWASH	1.5S-RD-WW-TL-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15° only		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	567lm	608lm	612lm

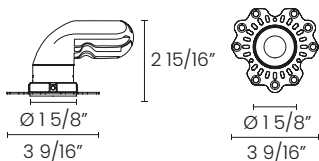
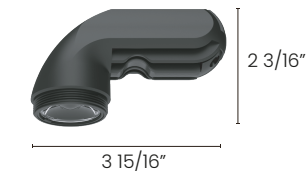
Multiplier for Optics Accessories
 Clear (None) 100%
 Honeycomb louver 67%
 Striped Glass Lens 78%

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 Honeycomb louver 67%
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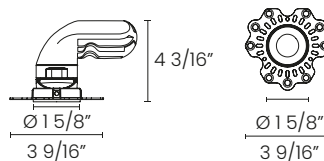


DIMENSIONS



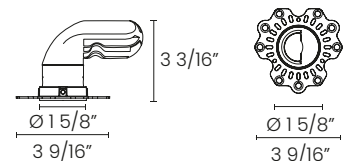
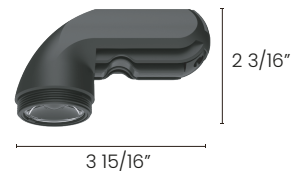
⌀ Cut out: ⌀ 2 4/32"

DIMENSIONS



⌀ Cut out: ⌀ 2 4/32"

DIMENSIONS



⌀ Cut out: ⌀ 2 4/32"

CONSTELLATION

MINI 1.5 - RECESSED DOWNLIGHT



SQUARE FLANGED TRIM (STANDARD LIGHT ENGINE)



FIXED 1.5-SQ-FX-TF-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	814lm	861lm	877lm	438lm

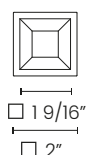
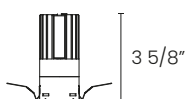
Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



WET
LOCATION

DIMENSIONS



□ Cut out: 1 26/32" x 1 26/32"

ADJUSTABLE (30°) 1.5-SQ-AD-TF-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	739lm	780lm	796lm	355lm

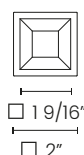
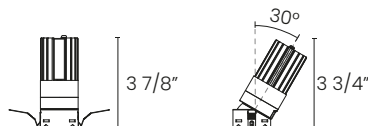
Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DAMP
LOCATION

DIMENSIONS



□ Cut out: 1 26/32" x 1 26/32"

WALLWASH 1.5-SQ-WW-TF-OP

CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15° only			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	418lm	445lm	450lm	277lm

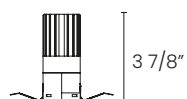
Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



WET
LOCATION

DIMENSIONS



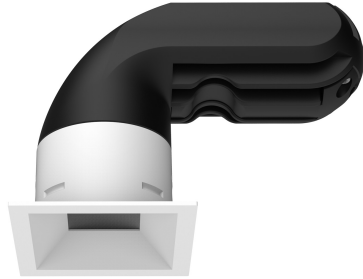
□ Cut out: 1 26/32" x 1 26/32"

CONSTELLATION

MINI 1.5 – RECESSED DOWNLIGHT

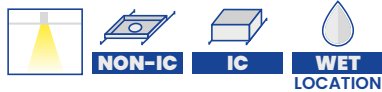


SQUARE FLANGED TRIM (SHALLOW LIGHT ENGINE)

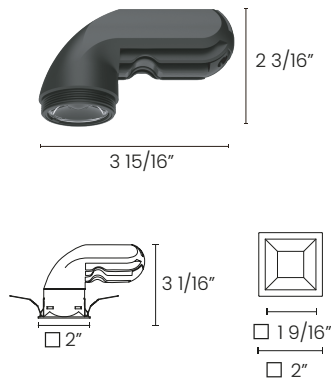


FIXED	1.5S-SQ-FX-TF-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	997lm	1062lm	1075lm

Multiplier for Optics Accessories	
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



▲ Cut out: 1 26/32" x 1 26/32"

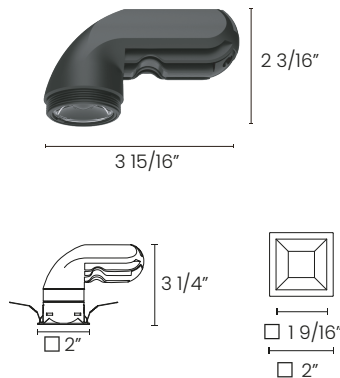


ADJUSTABLE (30°)	1.5S-SQ-AD-TF-OP		
CONSUMPTION	13W		
CURRENT	500mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	870lm	911lm	923lm

Multiplier for Optics Accessories	
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS

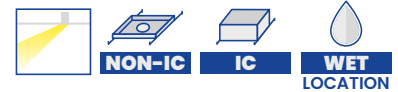


▲ Cut out: 1 26/32" x 1 26/32"

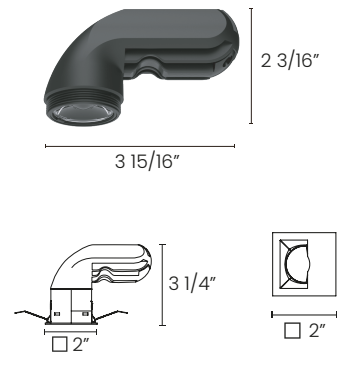


WALLWASH	1.5S-SQ-WW-TF-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15° only		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	567lm	608lm	612lm

Multiplier for Optics Accessories	
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



▲ Cut out: 1 26/32" x 1 26/32"

CONSTELLATION

MINI 1.5 - RECESSED DOWNLIGHT



SQUARE FLANGELESS TRIM (STANDARD LIGHT ENGINE)

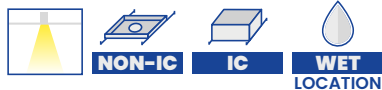


FIXED 1.5-SQ-FX-TL-OP

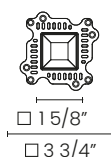
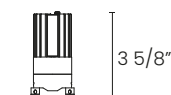
CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	814lm	861lm	877lm	438lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



Cut out: 1 31/32" x 1 31/32"

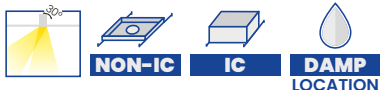


ADJUSTABLE (30°) 1.5-SQ-AD-TL-OP

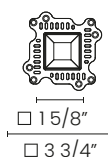
CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15°/24°/36°/60°			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	739lm	780lm	796lm	355lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



Cut out: 1 31/32" x 1 31/32"

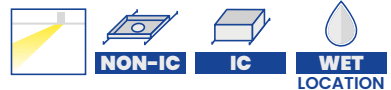


WALLWASH 1.5-SQ-WW-TL-OP

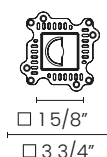
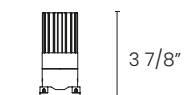
CONSUMPTION	10W			
CURRENT	500mA			
LENS BEAM ANGLE	15° only			
CRI	90+			
CCT	2700K	3000K	4000K	Dim to Warm
DELIVERED LUMEN	418lm	445lm	450lm	277lm

Multiplier for Optics Accessories

Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%



DIMENSIONS



Cut out: 1 31/32" x 1 31/32"

CONSTELLATION

MINI 1.5 - RECESSED DOWNLIGHT



SQUARE FLANGELESS TRIM (SHALLOW LIGHT ENGINE)



FIXED	1.5S-SQ-FX-TL-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	997lm	1062lm	1075lm

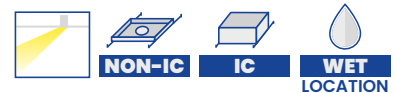
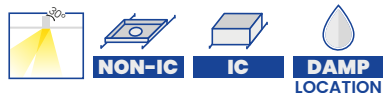
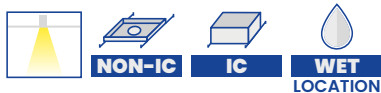
ADJUSTABLE (30°)	1.5S-SQ-AD-TL-OP		
CONSUMPTION	13W		
CURRENT	500mA		
LENS BEAM ANGLE	15°/24°/36°/60°		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	870lm	911lm	923lm

WALLWASH	1.5S-SQ-WW-TL-OP		
CONSUMPTION	13W		
CURRENT	600mA		
LENS BEAM ANGLE	15° only		
CRI	90+		
CCT	2700K	3000K	4000K
DELIVERED LUMEN	567lm	608lm	612lm

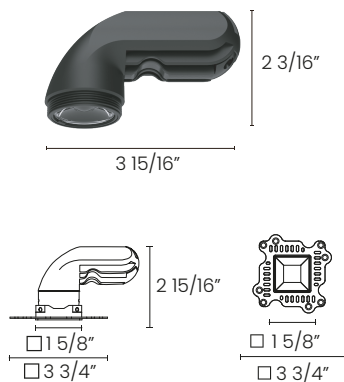
Multiplier for Optics Accessories	
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%

Multiplier for Optics Accessories	
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%

Multiplier for Optics Accessories	
Clear (None)	100%
Honeycomb louver	67%
Striped Glass Lens	78%

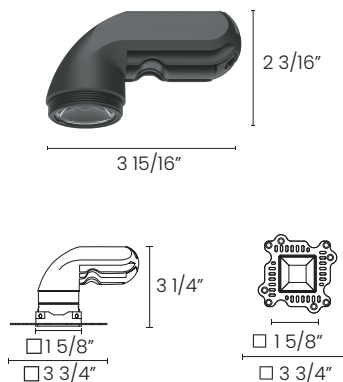


DIMENSIONS



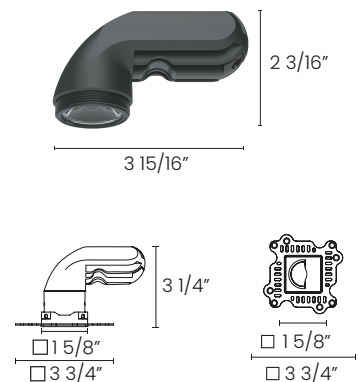
△ Cut out: 1 31/32" x 1 31/32"

DIMENSIONS



△ Cut out: 1 31/32" x 1 31/32"

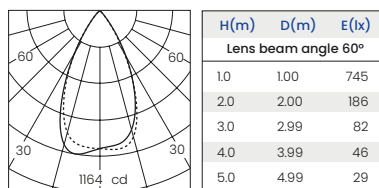
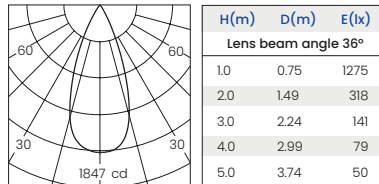
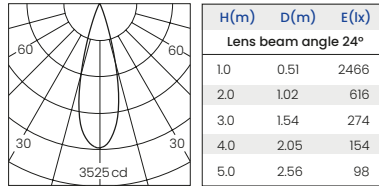
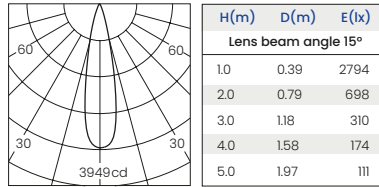
DIMENSIONS



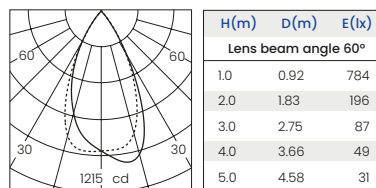
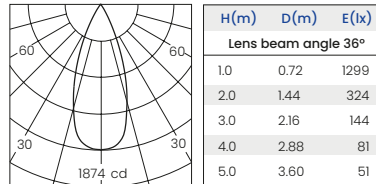
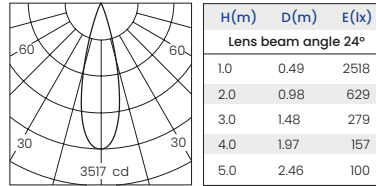
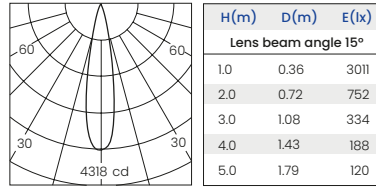
△ Cut out: 1 31/32" x 1 31/32"

PHOTOMETRICS – FOR STANDARD LIGHT ENGINE FLANGED TRIM AND FLANGELESS TRIM

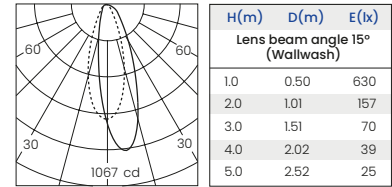
ROUND FIXED



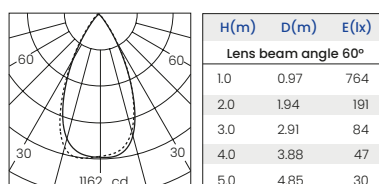
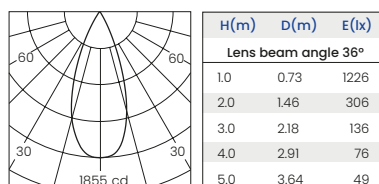
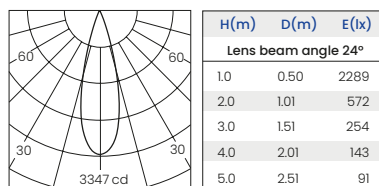
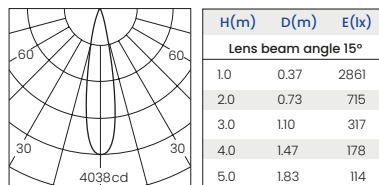
ROUND ADJUSTABLE



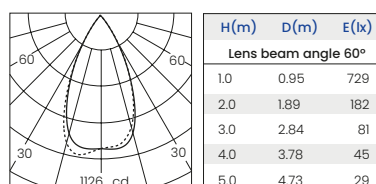
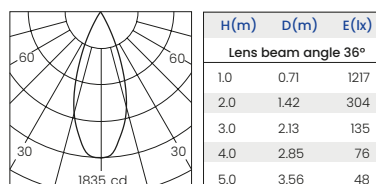
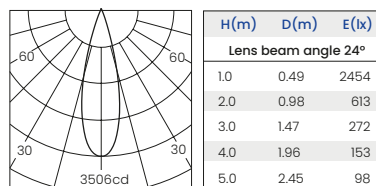
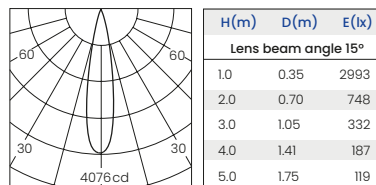
ROUND WALLWASH



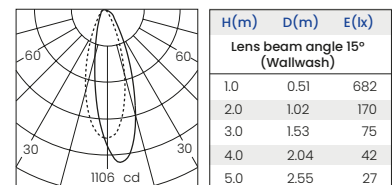
SQUARE FIXED



SQUARE ADJUSTABLE



SQUARE WALLWASH



HOUSING



REMODEL/REMOTE ENCLOSED DRIVER

For Constellation Mini 1.5 round and square flange and flangeless trim

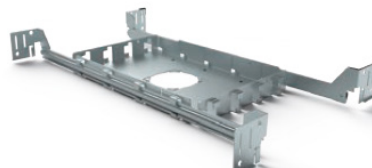
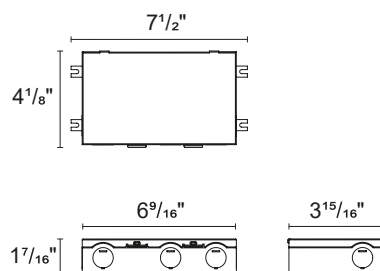
Installs from below, service from below

Type: Remote driver box

1 light engine flanged and flangeless trim

Flanged trim cut out:
Round: $\varnothing 1\frac{26}{32}$ "
Square: $\square 1\frac{26}{32}$ "

Flangeless trim cut out:
Round: $\varnothing 2\frac{4}{32}$ "
Square: $\square 1\frac{31}{32}$ "



NEW CONSTRUCTION NON-IC FRAME

For Constellation Mini 1.5 round and square flange and flangeless trim

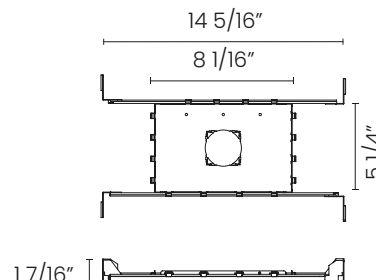
Installs from above, service from below

Type: New construction frame

1 light engine flanged and flangeless trim

Flanged trim cut out:
Round: $\varnothing 1\frac{26}{32}$ "
Square: $\square 1\frac{26}{32}$ "

Flangeless trim cut out:
Round: $\varnothing 2\frac{4}{32}$ "
Square: $\square 1\frac{31}{32}$ "



NEW CONSTRUCTION IC BOX

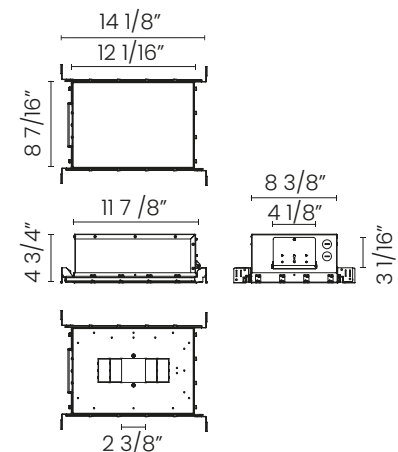
For Constellation Mini 1.5 round and square flanged and flangeless trim

Installs from above, service from below

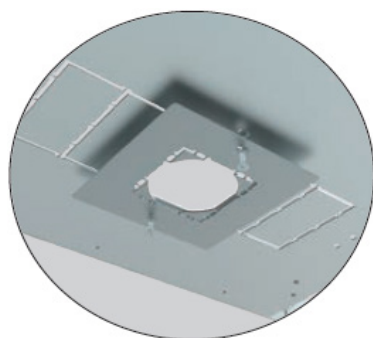
Type: IC Box

1 light engine flanged and flangeless trim

Cut out: $2\frac{13}{32}$ " x $4\frac{24}{32}$ "



CUTOUT ACCESSORIES



ACCI-10-R45-S46

For Constellation Mini 1.5 flanged trim

Cut out:
Round: $\varnothing 1\frac{26}{32}$ "
Square: $\square 1\frac{26}{32}$ "



ACCI-10-R54-S50

For Constellation Mini 1.5 flangeless trim

Cut out:
Round: $\varnothing 2\frac{4}{32}$ "
Square: $\square 1\frac{31}{32}$ "



DRIVER

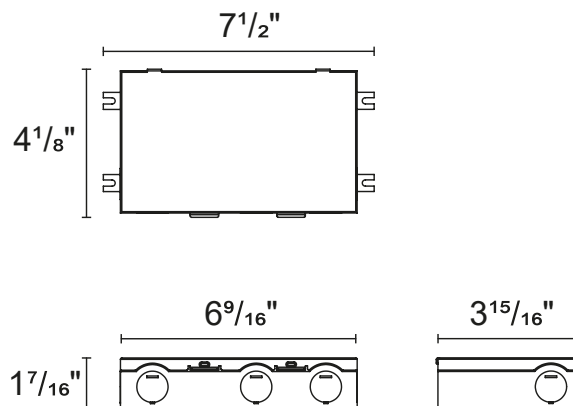
KIG-DWJ Series 40W



FEATURES

- Output: Constant Current
- Range: 100-277VAC
- PFC design: Built-in active PFC function
- Efficiency: Up to 82%
- Protections: Short circuit / Over temperature
- Heat dissipation: Cooling by free air convection
- Waterproof performance: Driver built-in Junction box, for dry and damp locations.
- Dimming function: Phase dimming: work with Forward phase, MLV and Reverse phase, ELV, TRIAC dimmers
- 0-10V dimming: 0-10V/1-10V/Potentiometer/10V PWM 4 in 1
- Dimming range: 1-100%
- Application: Suitable for the application of indoor LED lighting
- Warranty: 5 years warranty

DIMENSIONS



DRIVER

KIG-DWJ Series 40W

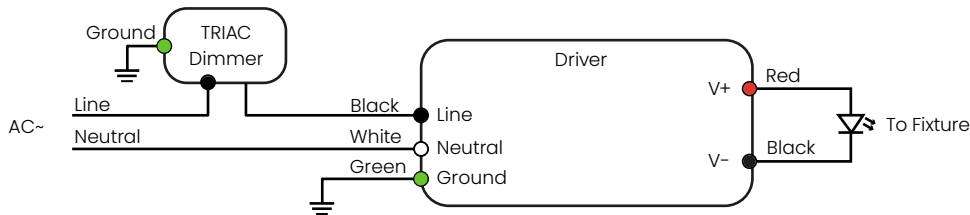
TECHNICAL PARAMETERS

Certificate		UL / cUL / FCC / ICES-005 / Class P / SELV / ROHS / REACH																		
Output	Rated current (A) T ON ↓ OFF	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4			
	DIP Code																			
	DIP Code																			
	Current Tolerance	±5%																		
	No-Load Voltage	75V max.																		
	DC Voltage (V)	3-65								3-62	3-57	3-50	3-45	3-40	3-37	3-34	3-31	3-29		
	Rated power (W)	19.5	22.8	26	29.3	32.5	35.8	39	40											
Input	Rated Voltage	100-277VAC																		
	Rated Frequency	50 / 60HZ																		
	Power Factor	>0.9																		
	THD@full load	≤20%																		
	Efficiency (Typ.)	≥82% @120VAC 60Hz ≥82% @277VAC 60Hz																		
	AC Current (Max.)	0.52A																		
	Inrush Current (Typ.)	3.12A, 36us@50% Ipeak 120VAC 9.2A, 34us@50% Ipeak 277VAC																		
	Leakage current	<0.50mA																		
Protection	Short Circuit	Constant current mode, recovers automatically after fault condition is removed																		
	Over temperature	Ambient temp. over 50°C±5°C, output current will be reduced to 50% ; Ambient temp. over 60°C±5°C, recovers automatically after the temp.drops.																		
Environ- ment	Working TEMP.	-40~+60°C																		
	Working Humidity	20-95% RH, non-condensing																		
	Storage TEMP. Humidity	-40~+80°C,10-95% RH																		
	TEMP. coefficient	±0.03% /°C (0-50°C)																		
	Vibration	10-500Hz, 5G12min./1 cycle,period for 72min.each along X,Y,Z axes																		
Safety & EMC	Safety standards	UL 8750 CAN/CSA-C22.2 No. 250.13																		
	Withstand voltage	I/P-O/P:1.88KVAC I/P-F.G:1.88KVAC O/P-F.G:0.5KVAC																		
	Isolation resistance	I/P-O/P:100MΩ / 500VDC / 25°C / 70% RH																		
	EMC Immunity	FCC/ICES do not request this test.																		
	EMC Emission	FCC Part 15 Subpart B; ICES-005 Issue 5; ANSI C63.4a-2017																		
Others	Net Weight	0.57KG																		
	Dimension	190.2*103.9*36mm(L *W*H)																		
	Packing	540*235*235mm 20pcs/CTN																		
Notes	1. All parameters NOT specially mentioned are measured at 120VAC input, rated load and 25°Cof ambient temperature. 2. Tolerance: includes set up tolerance, line regulation and load regulation.																			

DIMMING WIRING DIAGRAM

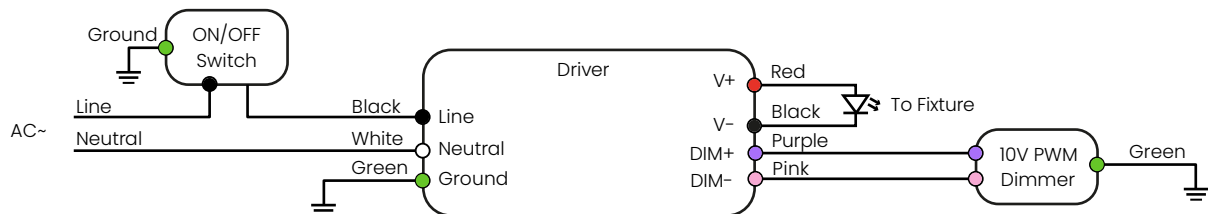
TRIAC / FORWARD PHASE / LEADING EDGE DIMMING (TRI)

1. The Pulse-Width Modulation (PWM) of output voltage can be adjusted through input terminal of the AC phase line(L) by connection a phase /Triac dimmer or lighting system.
2. Working with forward phase, MLV and Reverse phase, ELV, TRIAC dimmers or light system.
3. Min. loading is about 10%
4. Please try to use dimmers with power at least 2 times as the output power of the driver.



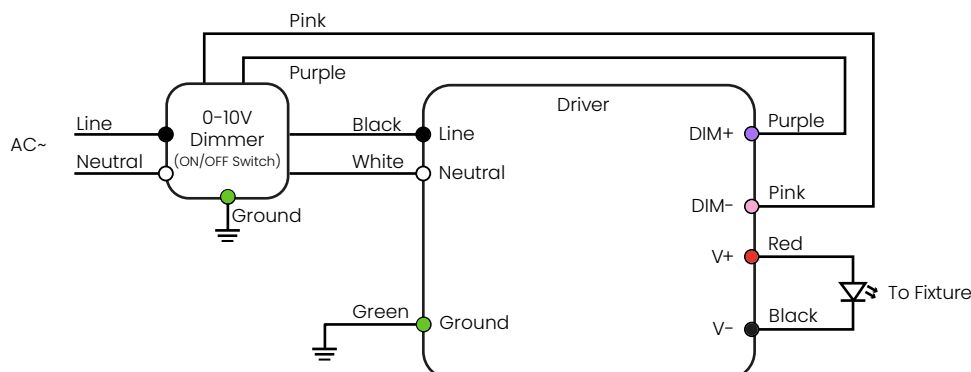
10V PWM

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.



0-10V DIMMING (010)

1. This driver should be installed by qualified and professional person.
2. Please make sure the driver is installed with adequate ventilation around it to allow for heat dissipation.
3. Ensure that wiring is correct before test in order to avoid light and power supply damage.
4. If driver Cannot work normally, don't maintain privately.



TRIAC / FORWARD PHASE / LEADING EDGE DIMMING (TRI)

NOTE: Cap off unused wires individually. DO NOT cap together.

The diagram illustrates the wiring for a battery backup LED lighting system. The 120VAC input is connected to a TRIAC dimmer, which is then connected to a driver. The driver's output is connected to the LED fixture. A battery pack provides backup power. The system includes a test plate and an optional DC 12V sensor. The wiring is color-coded: Yellow/Green for Ground, Black for AC-L, Blue for Switch, White for AC-N, Brown for Driver-N, Purple for Driver-L, Black for Line, White for Neutral, and Green for Ground. The LED fixture has terminals for DIM+, DIM-, V+, and V-. The battery pack has terminals for Red (DC12V+), Black (DC12V-), White (Sensor), Purple (DIM+), Pink (DIM-), Yellow (Driver DIM-), and Green (Driver DIM+). The test plate has terminals for CAP and OFF. The optional DC 12V sensor has terminals for V+ and V-.

The diagram illustrates the electrical connections for a 12V LED strip light system. It includes an AC input section, a battery backup section, and a dimmer section.

AC Input Section: The main power is supplied via 120VAC (Line and Neutral). A switch labeled "ON/OFF Switch" controls the power to the system. The "Line" wire is connected to the "Line" terminal of the "Emergency Battery Pack" and the "Line" terminal of the "10V PWM Dimmer". The "Neutral" wire is connected to the "Neutral" terminal of the "Emergency Battery Pack" and the "Neutral" terminal of the "10V PWM Dimmer".

Battery Backup Section: The "Emergency Battery Pack" provides a 12V backup power source. It has terminals for "Yellow/Green" (Ground), "Black (AC-L)", "Blue (Switch)", "White (AC-N)", "Brown (Driver-N)", and "Purple (Driver-L)".

Dimmer Section: The "10V PWM Dimmer" is used to control the brightness of the LED strip. It has terminals for "DIM+", "DIM-", "V+", "V-", and "Green" (Ground). The "DIM+" terminal is connected to the "Purple (DIM+)" terminal of the "Emergency Battery Pack". The "DIM-" terminal is connected to the "Pink (DIM-)" terminal of the "Emergency Battery Pack". The "V+" terminal is connected to the "Red (DC12V+)" terminal of the "Emergency Battery Pack". The "V-" terminal is connected to the "Black" terminal of the "Emergency Battery Pack".

LED Strip Light Section: The LED strip light is connected to the "V+" and "V-" terminals of the "10V PWM Dimmer". The "V+" terminal is connected to the "Red (DC12V+)" terminal of the "Emergency Battery Pack". The "V-" terminal is connected to the "Black" terminal of the "Emergency Battery Pack".

Other Components: A "Test Plate" is connected to the "Black" terminal of the "Emergency Battery Pack". A "DC12V Sensor (Optional)" is connected to the "Red (DC12V+)" and "Black (DC12V-)" terminals of the "Emergency Battery Pack". A "CAP OFF" switch is connected to the "Purple (DIM+)" and "Pink (DIM-)" terminals of the "Emergency Battery Pack".

[illegible]