

CONSTELLATION

MINI 1.5 DOUBLE - RECESSED DOWNLIGHT



SOURCE INFORMATION

DELIVERED LUMENS	Up to 888lm per Light Engine
CONSUMPTION	Up to 10W per Light Engine
CURRENT	Up to 500mA
INPUT VOLTAGE	120VAC-277VAC
DIMMING	TRIAC/ELV / 0-10V (1%) / 10V PWM
CRI	90+ CRI, 3-Step SDCM
COLOR TEMP-CCT	2700K/3000K/3500K/4000K/ Dim to Warm: 1800K-3000K
LIFE EXPECTANCY	L80
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. 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.

OPTICS ACCESSORY

Honeycomb louver & Linear Spread Lens

MATERIAL

Aluminum Die-Casting, Electrostatic Powder Coating

MINIMUM PLENUM SPACE

The minimum plenum space required is 4.5 inches.

CEILING THICKNESS

1 3/16"

COMPATIBLE CEILING TYPES

Drywall, T-Bar Grid, Acoustic Tile, Millwork Ceiling, Metal Ceiling.
And any material within the compatible thickness.



FIXED



ADJUSTABLE
(0° to 30° tilt)



WALLWASH

FLANGED TRIM



LENS BEAM ANGLE



15°
Spot



24°
Narrow Flood



36°
Flood



60°
Wide Flood

TRIM FINISH



Black



White



White with
black reflector
insert



Custom

Fixture type:

Job information:

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PRODUCT DEFINITION SHEET

Ex: CTL-M-1.5-RC-TF-FX-DB-30K-15-OP-WH-40M-1-U-EM10-RM-NN

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

1	2	3	4
SERIES	LIGHT ENGINE TYPE	TRIM SHAPE	MOUNTING PAN
☐ CTL-M Constellation Mini	☐ 1.5 1.5 High Efficiency Standard	☐ RD Round	☐ TF Flanged Trim

5	6	7	8	9
REFLECTOR TYPE	LIGHT ENGINES	COLOR TEMP-CCT (90 CRI)	LENS BEAM ANGLE	REFLECTOR - INSERT
☐ FX Fixed	☐ DB Double	☐ 27K 2700K	☐ 15 15° Spot	☐ ☐ WH White
☐ AD Adjustable		☐ 30K 3000K	☐ 24 24° Narrow	☐ ☒ BK Black
☐ WW Wall Wash (Available only with 15° Lens Beam Angle)		☐ 35K 3500K	☐ 36 36° Flood	☐ ☒ BW White Wall Wash with Black Insert
		☐ 40K 4000K	☐ 60 60° Wide Flood	
		☐ DW Dim to Warm: 1800K-3000K (Only available in standard Light Engine)		

10	11	12	13
TRIM FINISH	LUMEN PACKAGE	DRIVER	VOLTAGE
☐ ☐ WH White	☐ 30M	☐ 1 0-10V 1% Dimming	☐ U Uni 120-277V
☐ ☒ BK Black	☐ 35M	☐ TLV TRIAC/ELV 1% Dimming	
☐ ☒ CS Custom RAL No. _____	☐ 40M	☐ PWM 10V PWM 1% Dimming	
	☐ 45M	Remote Constant Current Driver	
	☐ 50M	Max distance: 196-ft using 12 AWG wire 100-ft using 16 AWG wire 50-ft using 18 AWG wire	
	See pages 3 for Available Light Engine Lumen packages		
	Check mA to Lumen values in the charts		

14	15	16
STANDBY MODULES	INSTALLATION TYPE	OPTICS ACCESSORY
☐ EM10 Emergency Battery Pack 10W	☐ RM Remote	☐ NN None
☐ EM12 Emergency Battery Pack 12W	☐ NCNIC New Construction Non-IC Frame	☐ HL Honeycomb louver
☐ NO No Option	☐ NCIC New Construction IC Box	☐ SG Linear Spread Lens
Remote Emergency Battery Pack, for field install		Accessories are not suitable for wallwash fixtures
Max distance with EM = 50 ft		



Honeycomb louver



Linear Spread Lens

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FIXED	CTL-M-1.5-RD-TF-FX-DB
CRI	90+
LENS BEAM ANGLE	15°/24°/36°/60°

3000K

IC/NON-IC	LUMEN OUTPUT CODE	CURRENT (mA)	DELIVERED LUMEN (lm)	FIXTURE CONSUMPTION (W)
IC/NON-IC	30M	300x2=600	549x2=1098	4.9x2=9.8W
IC/NON-IC	35M	350x2=700	637x2=1274	5.8x2=11.6W
IC	40M	400x2=800	723x2=1446	6.7x2=13.4W
NON-IC	45M	450x2=900	807x2=1614	7.6x2=15.2W
NON-IC	50M	500x2=1000	888x2=1776	8.5x2=17W

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%.

DIM TO WARM

IC/NON-IC	LUMEN OUTPUT CODE	CURRENT (mA)	DELIVERED LUMEN (lm)	FIXTURE CONSUMPTION (W)
IC/NON-IC	30M	300x2=600	279x2=558	4x2=8W
IC/NON-IC	35M	350x2=700	325x2=650	6x2=12W
IC	40M	400x2=800	371x2=742	8x2=16W
NON-IC	45M	450x2=900	418x2=836	9x2=18W
NON-IC	50M	500x2=1000	464x2=928	10x2=20W

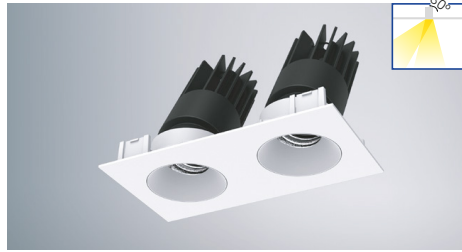
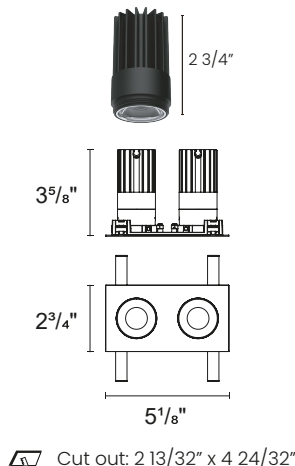
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Multiplier for other Color Temp (K)	Multiplier for Optics Accessories
2700K 90%	Clear (None) 100%
3500K 110%	Honeycomb louver 67%
4000K 120%	Linear Spread Lens 72%

UGR

CCT	2700K	3000K	3500K	4000K
UGR 20°	<16	<19	<16	<16
UGR 30°	<13	<16	<13	<13
UGR 40°	<19	<16	<19	<19
UGR 50°	<22	<19	<22	<22

DIMENSIONS



ADJUSTABLE (30°)	CTL-M-1.5-RD-TF-AD-DB
CRI	90+
LENS BEAM ANGLE	15°/24°/36°/60°

3000K

IC/NON-IC	LUMEN OUTPUT CODE	CURRENT (mA)	DELIVERED LUMEN (lm)	FIXTURE CONSUMPTION (W)
IC/NON-IC	30M	300x2=600	521x2=1042	4.9x2=9.8W
IC/NON-IC	35M	350x2=700	604x2=1208	5.8x2=11.6W
IC	40M	400x2=800	686x2=1372	6.7x2=13.4W
NON-IC	45M	450x2=900	765x2=1530	7.6x2=15.2W
NON-IC	50M	500x2=1000	842x2=1684	8.5x2=17W

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%.

DIM TO WARM

IC/NON-IC	LUMEN OUTPUT CODE	CURRENT (mA)	DELIVERED LUMEN (lm)	FIXTURE CONSUMPTION (W)
IC/NON-IC	30M	300x2=600	244x2=488	4x2=8W
IC/NON-IC	35M	350x2=700	284x2=496	6x2=12W
IC	40M	400x2=800	325x2=650	8x2=16W
NON-IC	45M	450x2=900	366x2=732	9x2=18W
NON-IC	50M	500x2=1000	406x2=812	10x2=20W

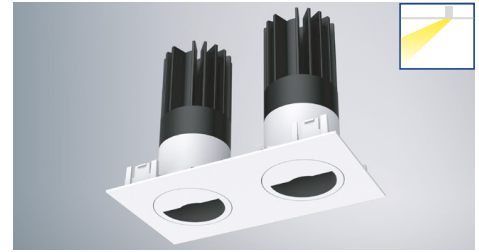
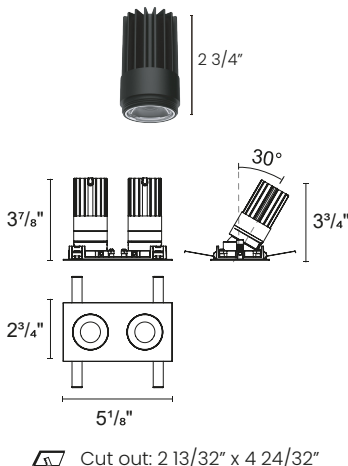
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Multiplier for other Color Temp (K)	Multiplier for Optics Accessories
2700K 90%	Clear (None) 100%
3500K 110%	Honeycomb louver 67%
4000K 120%	Linear Spread Lens 72%

UGR

CCT	2700K	3000K	3500K	4000K
UGR 20°	<16	<19	<16	<16
UGR 30°	<13	<16	<13	<13
UGR 40°	<19	<16	<19	<19
UGR 50°	<22	<19	<22	<22

DIMENSIONS



WALLWASH	CTL-M-1.5-RD-TF-WW-DB
CRI	90+
LENS BEAM ANGLE	15° only

3000K

IC/NON-IC	LUMEN OUTPUT CODE	CURRENT (mA)	DELIVERED LUMEN (lm)	FIXTURE CONSUMPTION (W)
IC/NON-IC	30M	300x2=600	357x2=714	2x2=4W
IC/NON-IC	35M	350x2=700	396x2=792	3x2=6W
IC	40M	400x2=800	441x2=882	4x2=8W
NON-IC	45M	450x2=900	489x2=978	4.5x2=9W
NON-IC	50M	500x2=1000	544x2=1088	5x2=10W

Actual performance may differ by +/- 5% when operating between 120V-277V +/- 10%.

DIM TO WARM

IC/NON-IC	LUMEN OUTPUT CODE	CURRENT (mA)	DELIVERED LUMEN (lm)	FIXTURE CONSUMPTION (W)
IC/NON-IC	30M	300x2=600	179x2=358	2x2=4W
IC/NON-IC	35M	350x2=700	199x2=398	3x2=6W
IC	40M	400x2=800	221x2=442	4x2=8W
NON-IC	45M	450x2=900	246x2=492	4.5x2=9W
NON-IC	50M	500x2=1000	273x2=546	5x2=10W

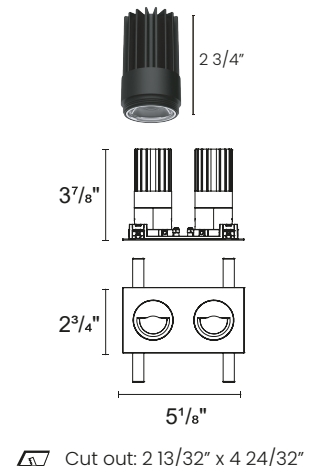
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UGR

CCT	2700K	3000K	3500K	4000K
UGR 20°	<16	<19	<16	<16
UGR 30°	<13	<16	<13	<13
UGR 40°	<19	<16	<19	<19
UGR 50°	<22	<19	<22	<22

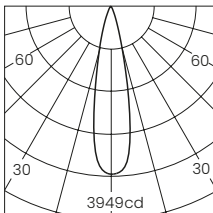
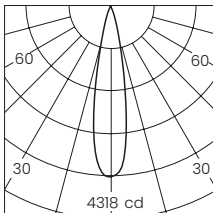
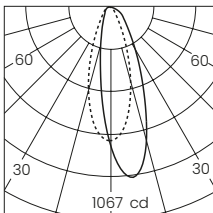
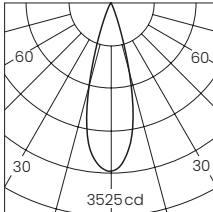
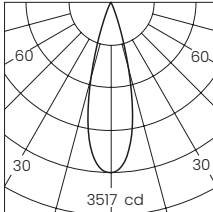
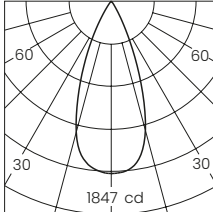
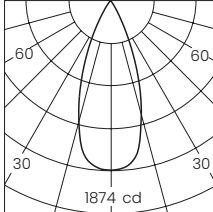
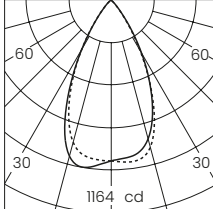
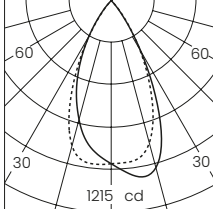
DIMENSIONS



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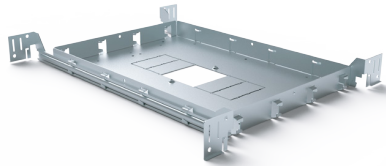
PHOTOMETRICS

FIXED	RC-FX-TF-OP	ADJUSTABLE	RC-AD-TF-OP	WALLWASH	RC-WW-TF-OP																																																															
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4.0	3.99	46																																																																		
5.0	4.99	29																																																																		
H(m)	D(m)	E(lx)																																																																		
Lens beam angle 60°																																																																				
1.0	0.92	784																																																																		
2.0	1.83	196																																																																		
3.0	2.75	87																																																																		
4.0	3.66	49																																																																		
5.0	4.58	31																																																																		

CONSTELLATION

MINI 1.5 DOUBLE - RECESSED DOWNLIGHT

HOUSING



REMODEL/REMOTE ENCLOSED DRIVER

For Constellation Mini 1.5 Double flanged trim

Installs from below, service from below

Type: Remote driver box

2 light engine flanged trim

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

NEW CONSTRUCTION NON-IC FRAME

For Constellation Mini 1.5 Double flanged trim

Installs from above, service from below

Type: New construction frame

2 light engine flanged trim

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

NEW CONSTRUCTION IC BOX

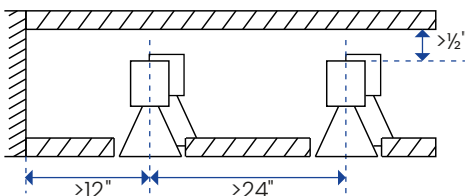
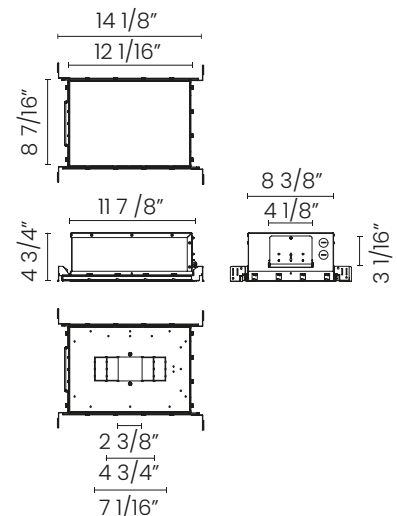
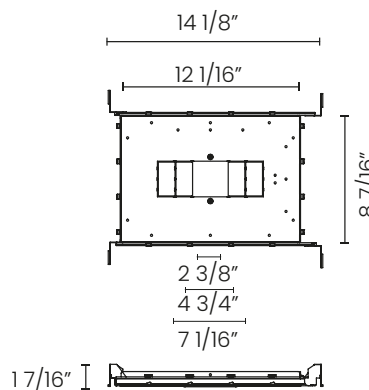
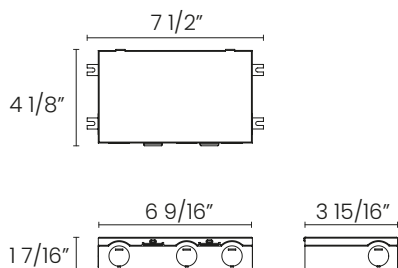
For Constellation Mini 1.5 Double flanged trim

Installs from above, service from below

Type: IC Box

2 light engine flanged trim

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



CUTOUT ACCESSORIES



For Constellation Mini 1.5 Double

Cut out:

Round : $\varnothing 1\frac{26}{32}"$

Square : $\square 1\frac{26}{32}"$

CONSTELLATION

MINI 1.5 DOUBLE - RECESSED DOWNLIGHT



KIG-DWJ Series 40W



ICES-005

Class P

SELV

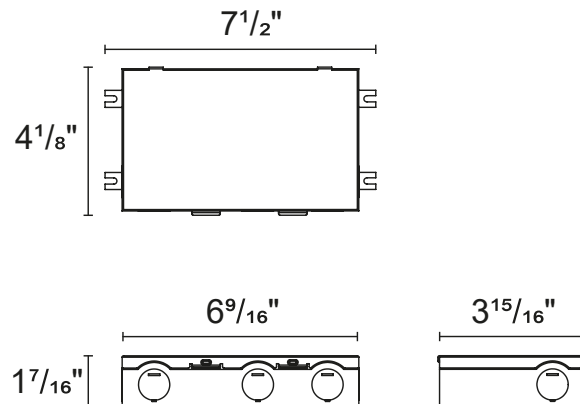
RoHS



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



STANDBY MODULE

An emergency battery pack is available as an option for field installation by others. AC Electronics emergency battery is California Title 20 Compliant and provides backup power for 90 minutes. EM fixtures are provided with an integral emergency battery that requires above ceiling access for service, and a remote test switch, which comes with a 24" lead length for location of the test switch. Remote EM test switch is dry/damp only.

DRIVER

KIG-DWJ Series 40W

TECHNICAL PARAMETERS

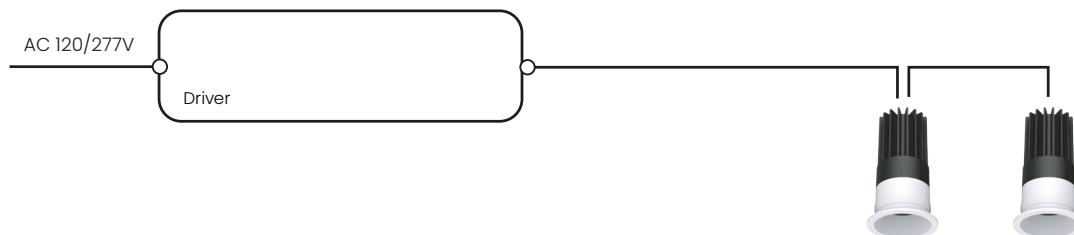
Certificate		UL / cUL / FCC / ICES-005 / Class P / SELV / ROHS / REACH																
Output	Rated current (A) T ON L OFF	0.3	0.35	0.4	0.45	0.5	0.55	0.6	0.65	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	
	DIP Code	1111		1T11		11T1		1TT1		111T		1T1T		11TT		1TTT		
	DIP Code		1111		1T11		11T1		1TT1		111T		1T1T		11TT		1TTT	
	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.																
Enviroment	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, 5G 12min./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:1.88K VAC I/P-F/G:1.88K VAC O/P-F/G:0.5K VAC																
	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 us tolerance, line regulation and load regulation.																	

CONSTELLATION

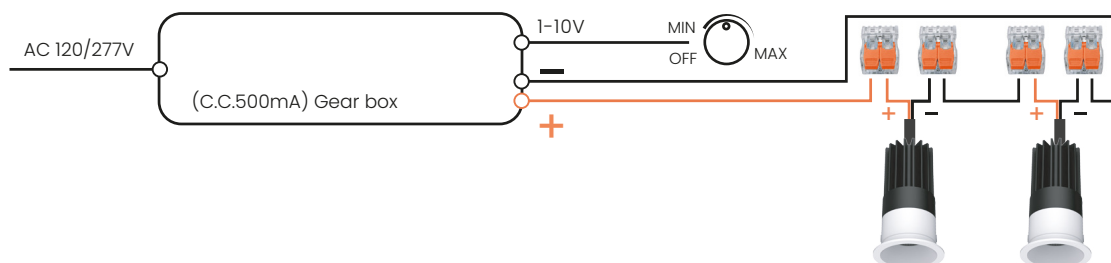
MINI 1.5 DOUBLE - RECESSED DOWNLIGHT

MULTIPLE DOWNLIGHTS WIRING DIAGRAM

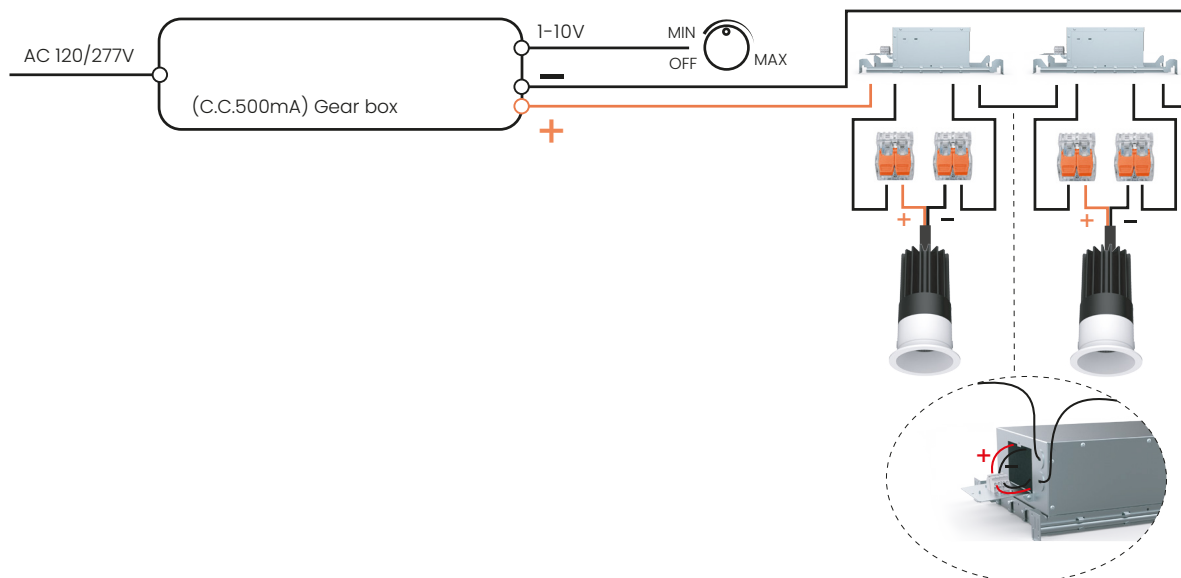
REMOTE DRIVER



NEW CONSTRUCTION NON-IC FRAME



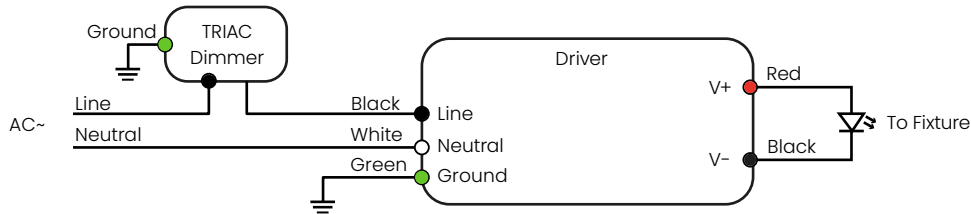
NEW CONSTRUCTION IC



DIMMING WIRING DIAGRAM

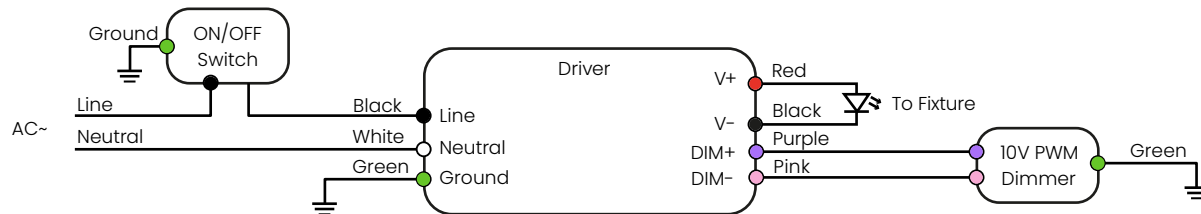
TRIAC / FORWARD PHASE / LEADING EDGE DIMMING (TRI)

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.



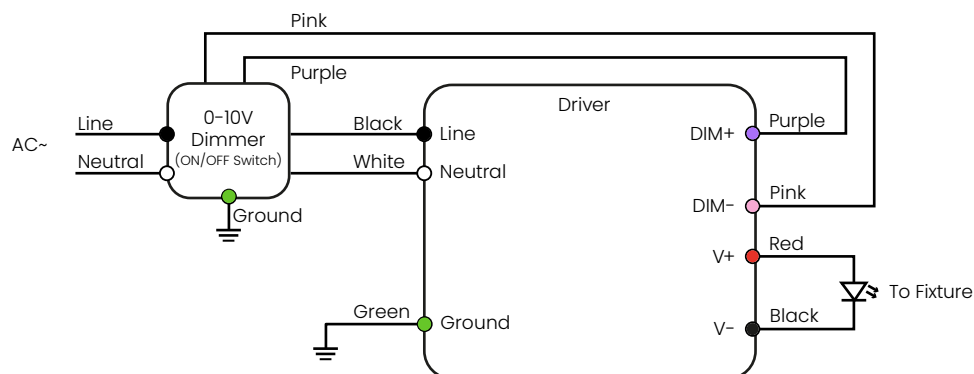
10V PWM

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.



CONSTELLATION

MINI 1.5 DOUBLE - RECESSED DOWNLIGHT

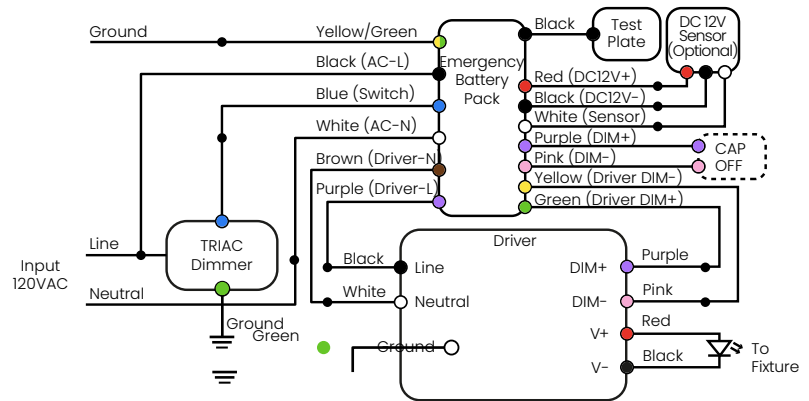
EMERGENCY BATTERY PACK WIRING DIAGRAM

TRIAC / FORWARD PHASE / LEADING EDGE DIMMING (TRI)

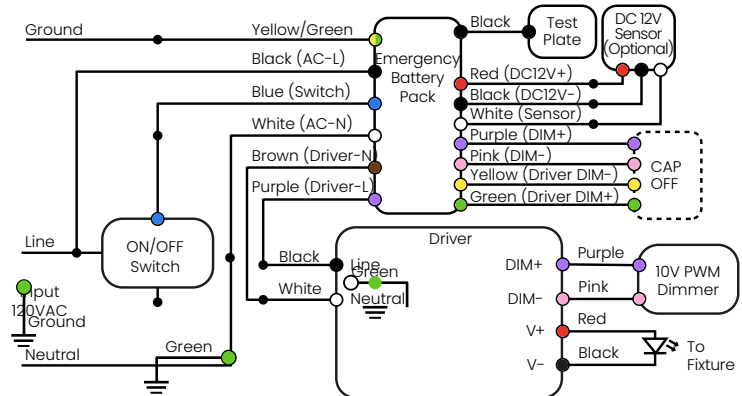
Input 120VAC 50/60Hz Range 3%-100%

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

EMERGENCY BATTERY ACCESS Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.



10V PWM



0-10V DIMMING (010)

Input 120VAC-277VAC 50/60Hz Range 0.1%-100% dim to off

NOTE: Cap off unused wires individually. DO NOT cap together. Wall Switch and 0-10V dimmer may be one unit or two separate units.

EMERGENCY BATTERY ACCESS Above ceiling access is required for service. An access panel in the ceiling (or other form of access) adjacent to the installation location of the Emergency Battery is required.

