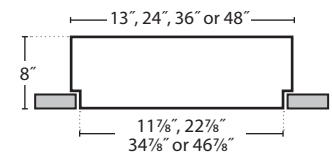




Type:

Job:



LUMEN OUTPUT: Direct

		LO	MO	SO
12"	lm	550	700	1100
	w	10	14	25
2'	lm	2100	3150	3900
	w	32	53	72
3'	lm	4500	7000	9000
	w	56	95	131
4'	lm	7000	8800	13900
	w	76	97	164



CLICK HERE

Our ever-popular 'skylights'

The standard for four decades with a slightly regressed 2" trim for a skylight effect.  
Perfect partner to our P3900 Sky Oculus pendant.



Lumen output may vary +/- 5%

See LED Details PDF for more info

SERIES	LED COLOR	OUTPUT	SHIELD-ING	TRIM COLOR	CIRCUIT-ING	VOLTAGE	CEILING SYSTEMS	CONTROLS	DRIVERS	OPTIONS
P8912 12" Dia. P8920 2" Dia. P8930 3" Dia. P8940 4" Dia.	TU Tu Hue Tunable White A6500K	LO Low MO Me- dium SO Stan- dard	CWA Concave White Acrylic (NA - 12" & 2") VWA Convex White Acrylic FWA Flat White Acrylic	TMW Textured Matte White (Standard) YGW Gloss White Y_ Premium Color CC Custom Color	SC Single Circuit	UNV (120-277)	X1 T-Bar 1 5/16" or 5/8" Exposed (Standard) Consult factory for 5/8" Tegular X1T T-Bar Ceiling with Tegular Panels X3B Hard Ceiling (Flange Trim) NOTE: Fixture must be installed BEFORE ceiling for X3B	0-10V Uses E10V Driver DALI Uses EDALI Driver DMX Uses EDMX Driver nLight Uses EDALI Driver	E10V .1% 0-10V DUALdrive, EldoLED (Dim to Dark [Off] Tunable White) EDALI DALI DUALdrive, EldoLED (Dim to Dark [Off] Tunable White) EDMX DMX POWERdrive, EldoLED (Dim to Dark [Off] Tunable White)	EMHE CA T20 Emergency Battery (18"-2": Remote only, 3'-4': 900 delivered lumens) EM Emergency Battery (2': 500 delivered lumens) PruTune Wall Device (EDALI driver only, one PruTune device for each zone) ETRAN 0-10V to DALI Eldo Translator



## PHOTOMETRICS

### Low Output:

#### P8940-TW

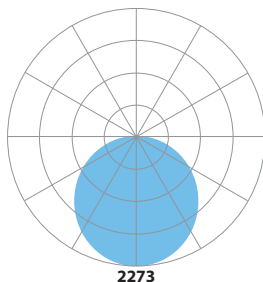
7017 Delivered Lumens

88 Watts

80 lm/w

3500 CCT

Test #L041411805



### Zonal Lumen Summary:

0-90 = 100%

Vertical Angle	0°	22.25°	45°	67.5°	90°
0°	2273	2273	2273	2273	2273
5°	2260	2260	2260	2260	2260
15°	212	212	212	212	212
25°	2005	2005	2005	2005	2005
35°	1773	1773	1773	1773	1773
45°	1484	1484	1484	1484	1484
55°	1150	1150	1150	1150	1150
65°	807	807	807	807	807
75°	440	440	440	440	440
85°	131	131	131	131	131
90°	0	0	0	0	0

### Luminance Chart:

Angle	0°	45°	90°
45°	1959	1959	1959
55°	1871	1871	1871
65°	1782	1782	1782
75°	1587	1587	1587
85°	1403	1403	1403

## LUMEN MAINTENANCE

**L70 (LO, MO, SO)** — 100,000+ Hours

**L70 (HO)** — 90,000+ Hours

## LED SYSTEM

LED modules and drivers are field replaceable.

## CONTROLS

Tunable White can be controlled via the following methods:

- **0-10V:** Control brightness and color independently via 2 dimmers.
- **DALI:** For more precise control. Prudential's PruTune wall control includes a color wheel, dimming indicator and six preset color options (2700K, 3000K, 3500K, 4000K, 5000K & 6500K).
- **nLight\*:** Similar to DALI but with easier installation.
- **DMX\*:** Recommended for dynamic lighting.

\* Both nLight and DMX have Plug-n-Play connectors installed on the fixture

**NOTE:** Independent control of Up and Down light (dual circuit) requires doubling the above controls for 0-10V and DALI (Four dimmers or two PruTune, or similar, devices). Dual circuit on DMX and nLight is handled via addressing of connected components. Mixing control options is not recommended.

## LABELS

CSA and ETL damp labeled and I.B.E.W. manufactured.

## CONSTRUCTION

### Housing

Die-formed 20-gauge steel, >20% PC recycled, 100% recyclable.

### Lens

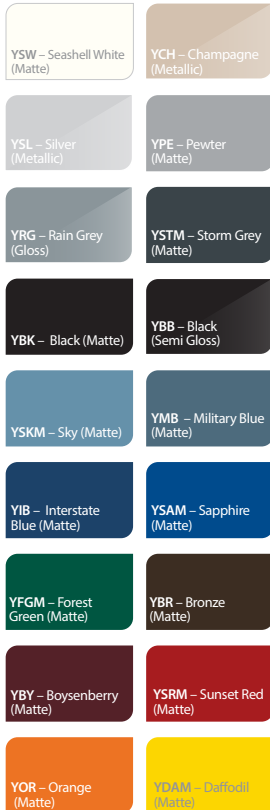
Acrylic, 100% recyclable.

## MOUNTING

Recessed mounted into T-bar or hard ceiling applications.

## WARRANTY

Single-source, 5 year limited warranty covers standard components and construction.



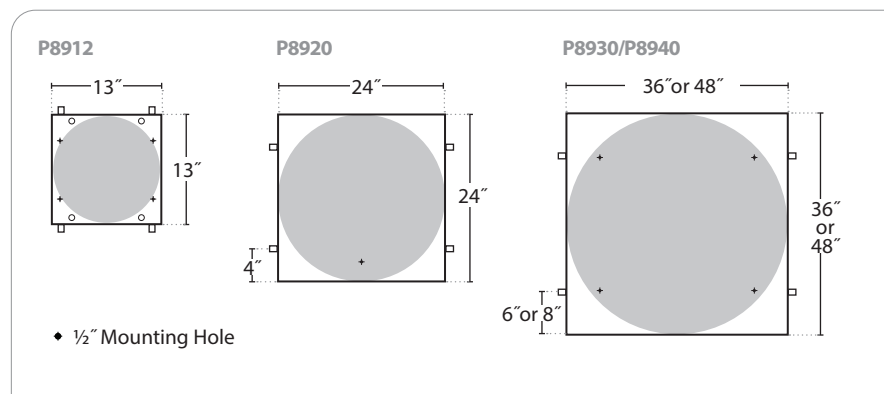
Choose from one of our Premium Colors with no set-up fee.

For paint chip samples, please email: [info@prulite.com](mailto:info@prulite.com)

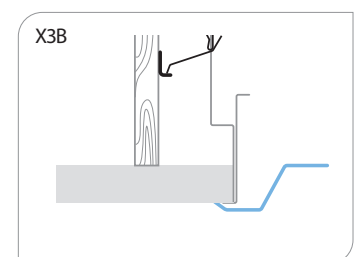
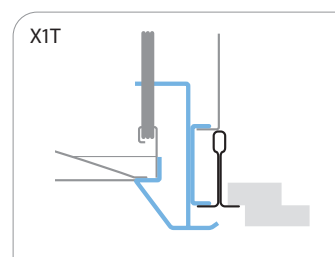
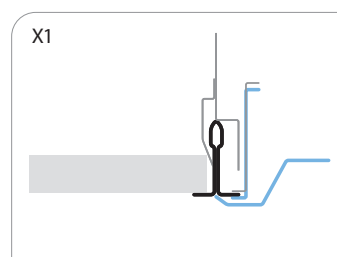


Client | Mercer Architect | GKK Works

## MOUNTING LOCATIONS

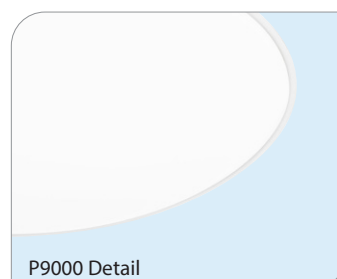


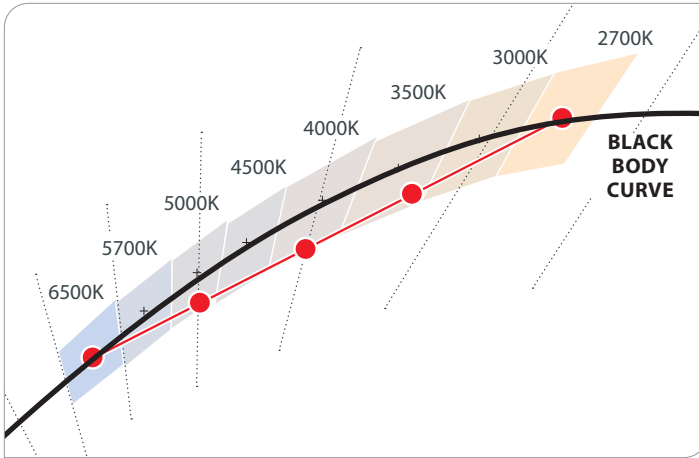
## CEILING SYSTEMS



**NOTE:** Fixture must be installed BEFORE ceiling for X3B

## COMPLIMENTARY FIXTURES

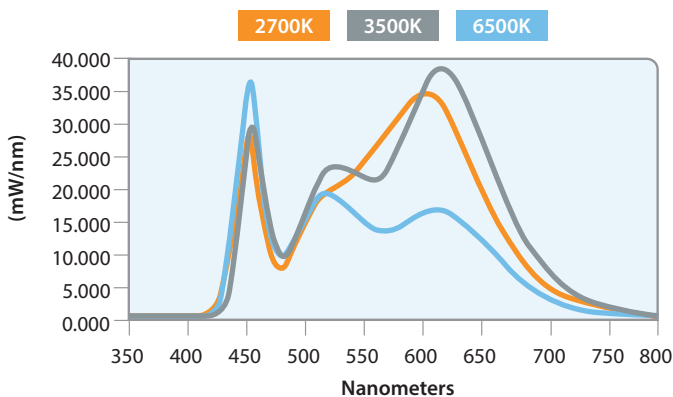




TARGETED CCT	TESTED CCT	LUMEN OUTPUT	TOTAL POWER (W)	CRI	R9	DUV
6500	6100	+ 2%	- 11%	96	96	0
5000	4675	STATED LUMENS ON LUMEN CHART	- 14%	95	96	- 0.005
4000	3675	+ 2%	- 13%	94	85	- 0.007
3500	3225	+ 1%	- 12%	93	74	- 0.006
3000	2875	STATED LUMENS ON LUMEN CHART	- 6%	93	57	- 0.004
2700	2650	- 2%	STATED WATTS ON LUMEN CHART	91	46	- 0.002

## LIGHT OUTPUT AND COLOR

- Actual CCT is below targeted, especially in cooler range as a function of LED chip
- Light output is held constant over full color range and output matches static white PRU fixtures for easy specification (Low, Medium, Standard and High output), see spec sheets for delivered lumens for individual fixtures (varies). Lumen output may vary +/- 5%



## ELECTRICAL

### 0-10V:

- Universal Input Voltage (120-277VAC)
- 0.1% Dimming
- Controlled by two individual 0-10V signals, one for light output (to 1%), the other for adjusting CCT (2700K-6500K)
- 50,000 hours rated life at 70°C max driver case temperature
- 87% efficiency — THD <20% — PF >0.9

### DALI:

- Universal Input Voltage (120-277VAC)
- DALI control system (by others) or PRUTune DALI wall device to control color temperature and brightness

**NOTE:** PRUTune wall device only requires Purple & Grey wires common to 0-10v wiring, ideal for control of individual spaces

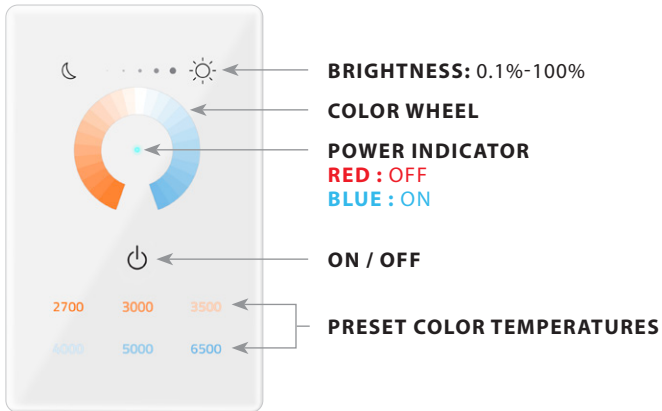
- 50,000 hours rated life at 70°C max driver case temperature
- 87% efficiency — THD <20% — PF >0.9

### DMX:

- Universal Input Voltage (120-277VAC)
- DMX control system (by others) for control of CCT and brightness
- DMX drivers have multiple output channels that can be independently addressed at the factory
- 50,000 hours rated life at 70°C max driver case temperature
- 86% efficiency — THD <20% — PF >0.9



## PRUTUNE WALL DEVICE



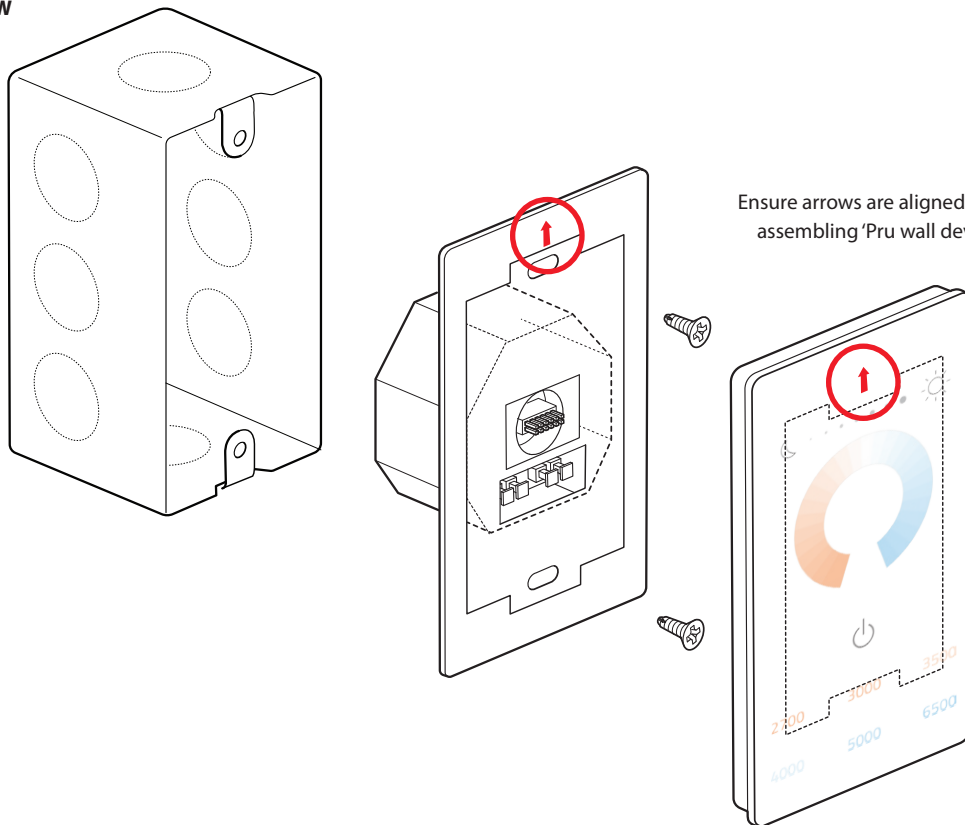
### PRUTune DALI device includes:

- Easy-to-understand user control with intuitive design
- Out-of-the-box set-up, no commissioning needed
- Color wheel for color change from 2700K to 6500K
- Dimming to 1% (255 Steps)
- Six preset colors (2700K, 3000K, 3500K, 4000K, 5000K, 6500K)
- Must use DALI driver, consult factory to control non-Prudential Ltg Tunable White fixtures
- Control one (1) zone - up to 30 drivers  
 (Consult factory for fixture quantity dependant upon fixture type, size & output)

### PRUTune + EMHE: — Prutune does not have memory

- Once normal power is restored, the controller sends a signal of 100% intensity and 6500K CCT

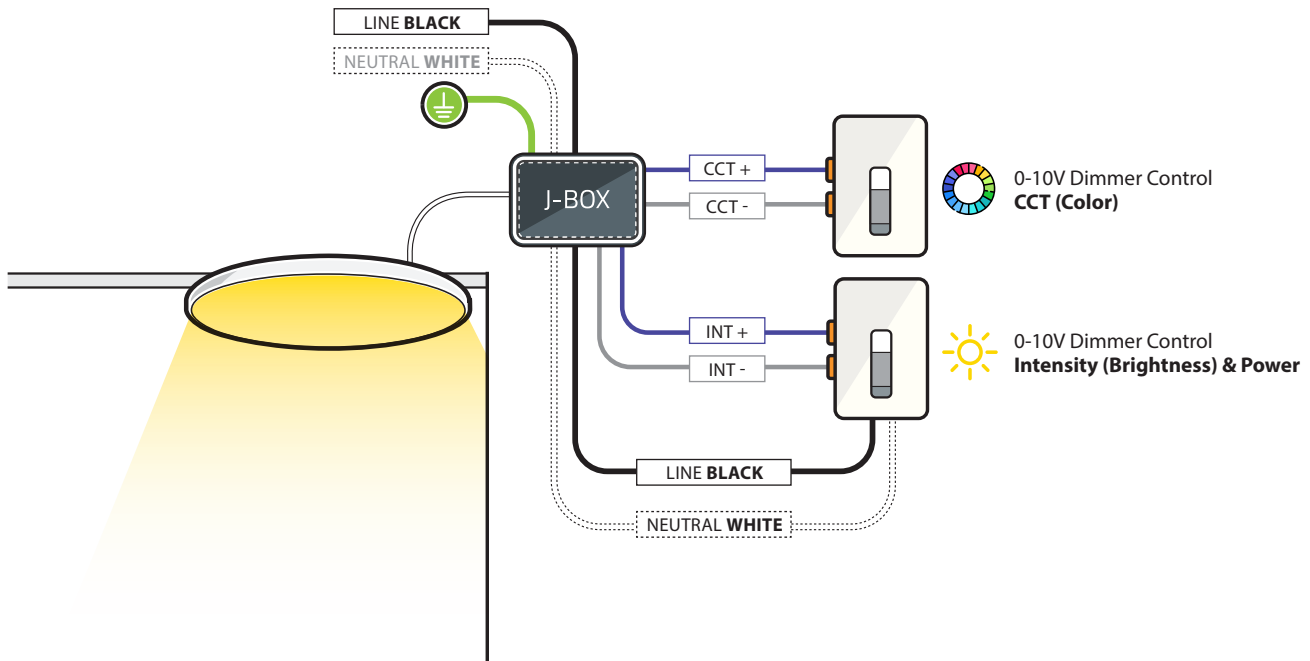
## EXPLODED VIEW





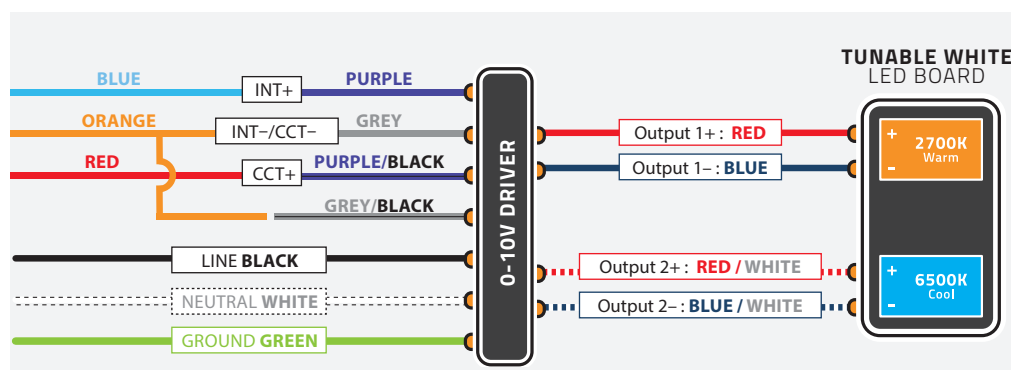
## D1 – SC – 0-10v

Single Control for Color, Single Control for Intensity



— Junction box wiring by others. Wire colors shown are for illustration purposes only.

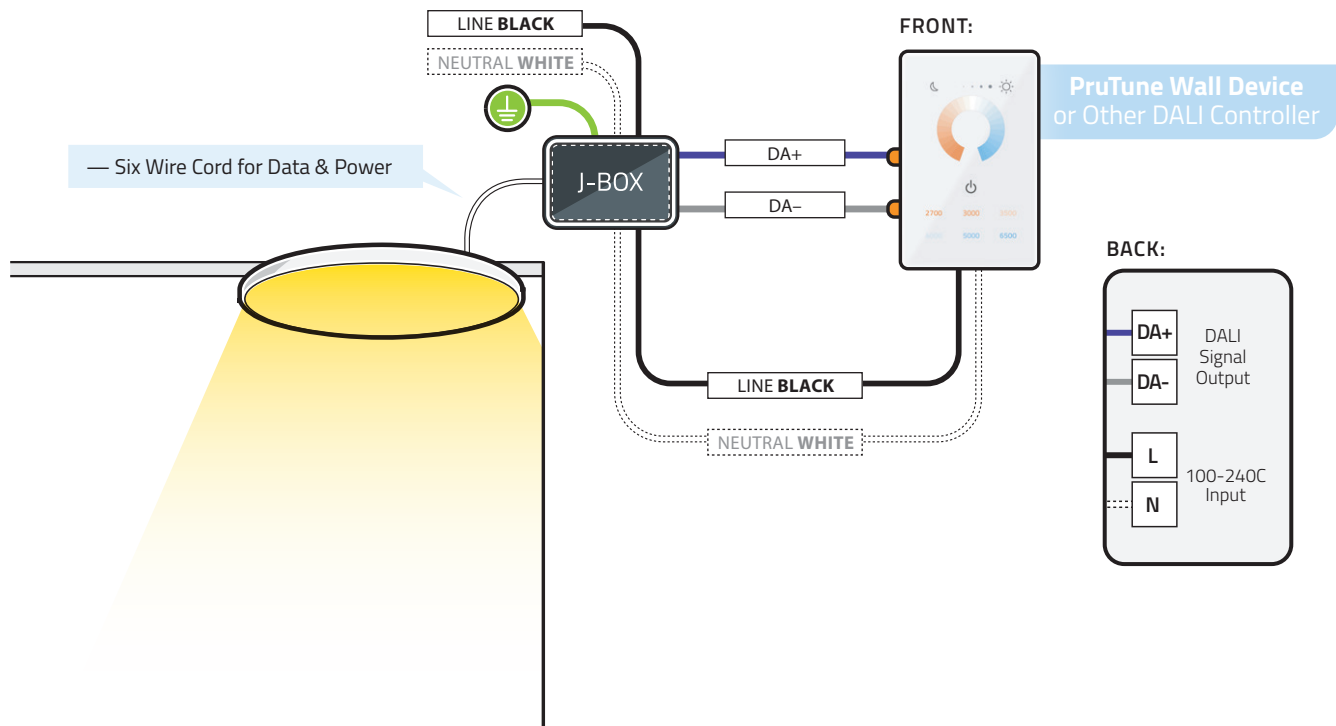
### LIGHTING FIXTURE INTERNAL DETAILS:





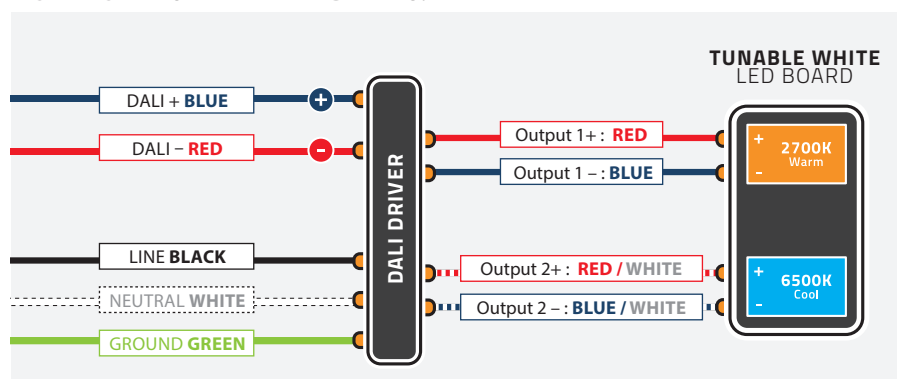
## D1 – SC – DALI – PruTune

Single Control for Color & Intensity



— Junction box wiring by others. Wire colors shown are for illustration purposes only.

### LIGHTING FIXTURE INTERNAL DETAILS:



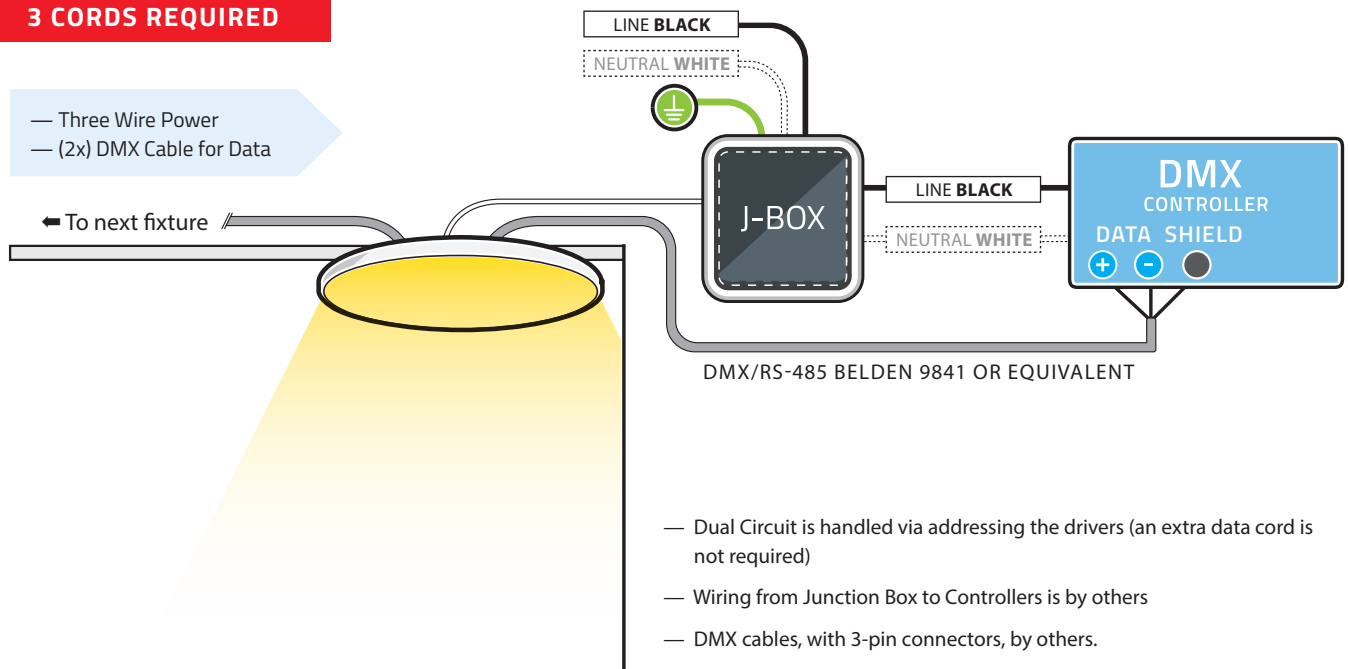


## D1 – SC – DMX

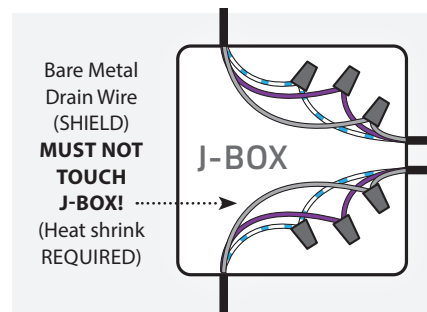
DMX Control of Color & Intensity

### 3 CORDS REQUIRED

- Three Wire Power
- (2x) DMX Cable for Data

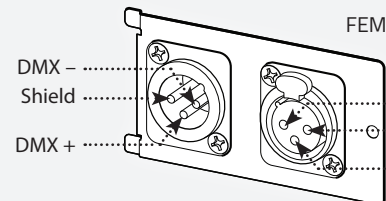


#### J-BOX WIRING DETAIL: DMX CONNECTIONS



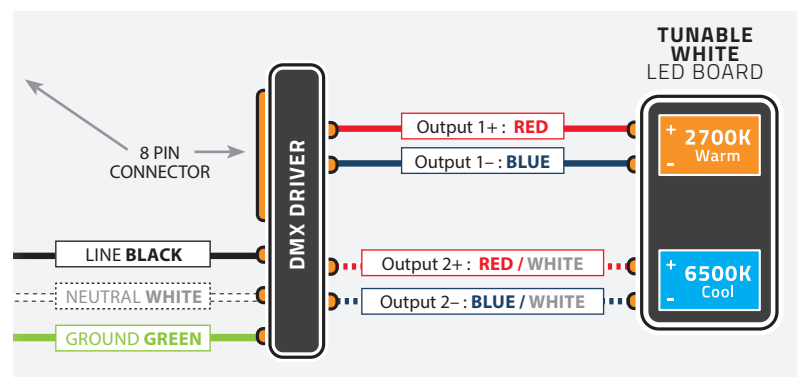
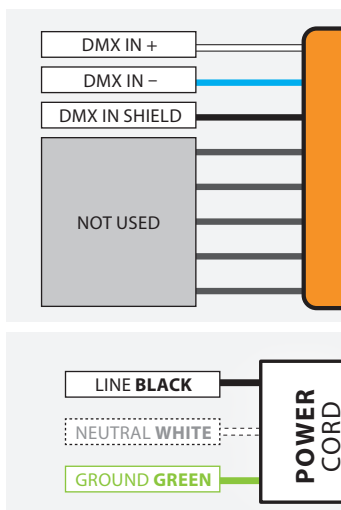
#### DMX CONNECTOR DETAIL:

MALE: DMX IN



FEMALE: DMX OUT

#### 8 PIN CONNECTOR DETAIL:

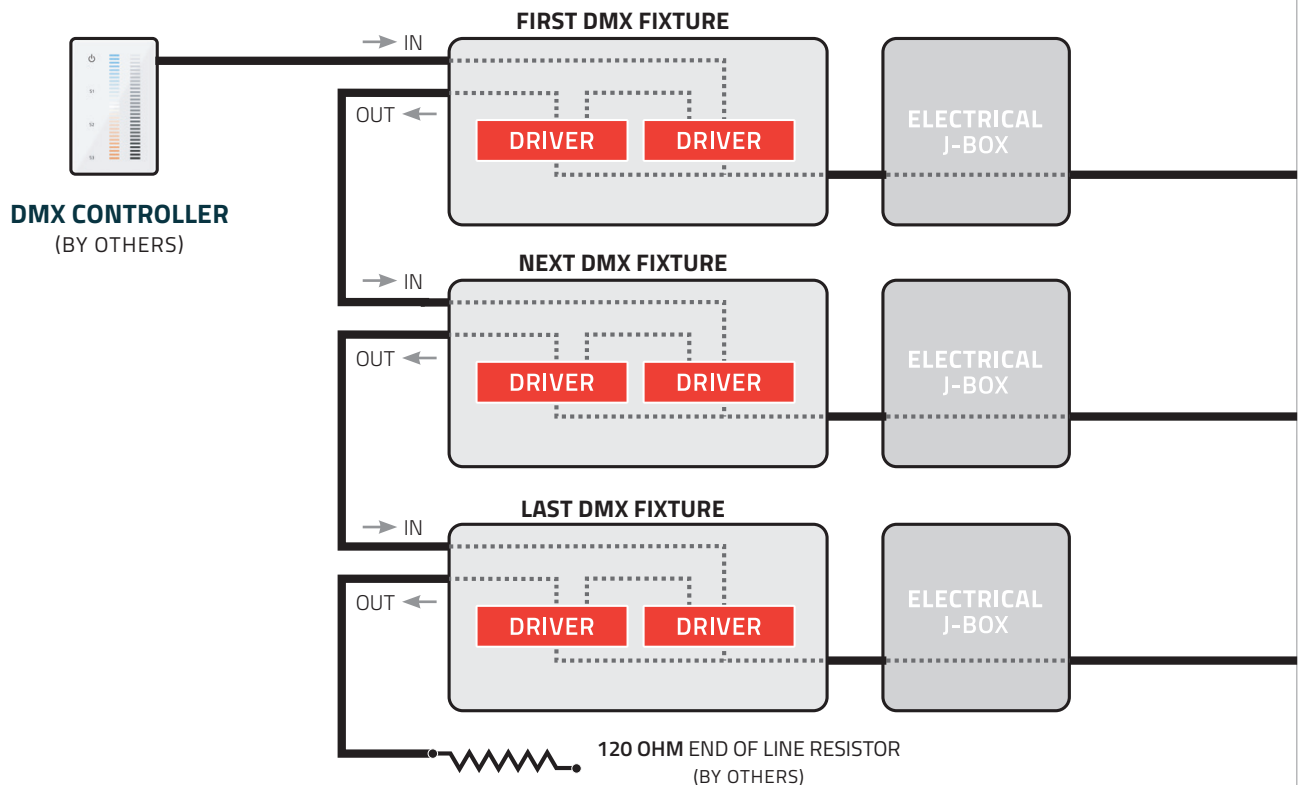


FOR MULTIPLE  
FIXTURES  
SEE NEXT PAGE



## D1 – SC – DMX

DMX Control of Color & Intensity, Multiple Fixtures



### RECOMMENDATIONS

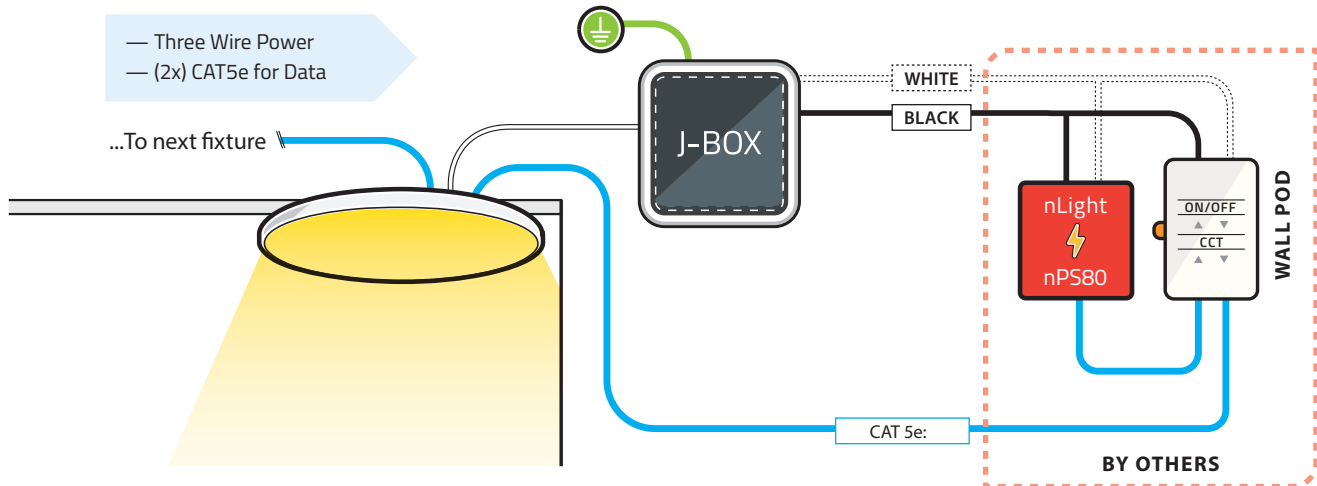
- Complete DMX requirements form.
- Fixtures must be daisy chained. (Drivers internal to fixture and daisy chained)
- Maximum 32 drivers per controller, consult factory for quantity of drivers per fixture.  
If more than 32 drivers a DMX booster / repeater (by others) must be used.
- Keep DMX cable less than 1000ft between controller and end of line resistor.
- Cables connecting fixtures must be designed for DMX/RS-485, Beldin 9841 or equivalent.
- If more than one zone, fixtures per zone must be specified.



## SC – nLight

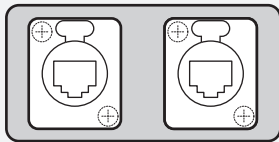
(nLight Control of Color & Intensity, One Fixture)

### 3 CORDS REQUIRED

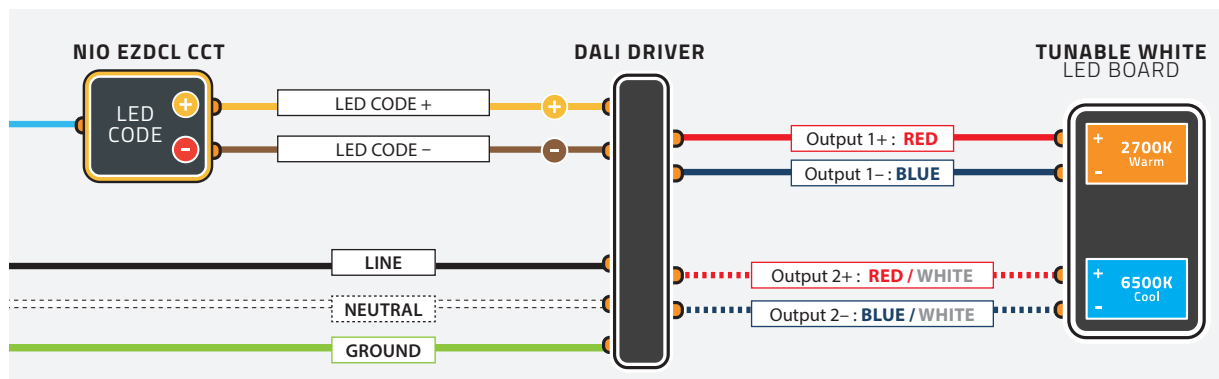


- Dual Circuit is handled via addressing the drivers (an extra data cord is not required)
- Wiring from Junction Box to Controllers is by others
- CAT 5e cables by others

### RJ45 CONNECTOR DETAIL:



### LIGHTING FIXTURE INTERNAL DETAILS:



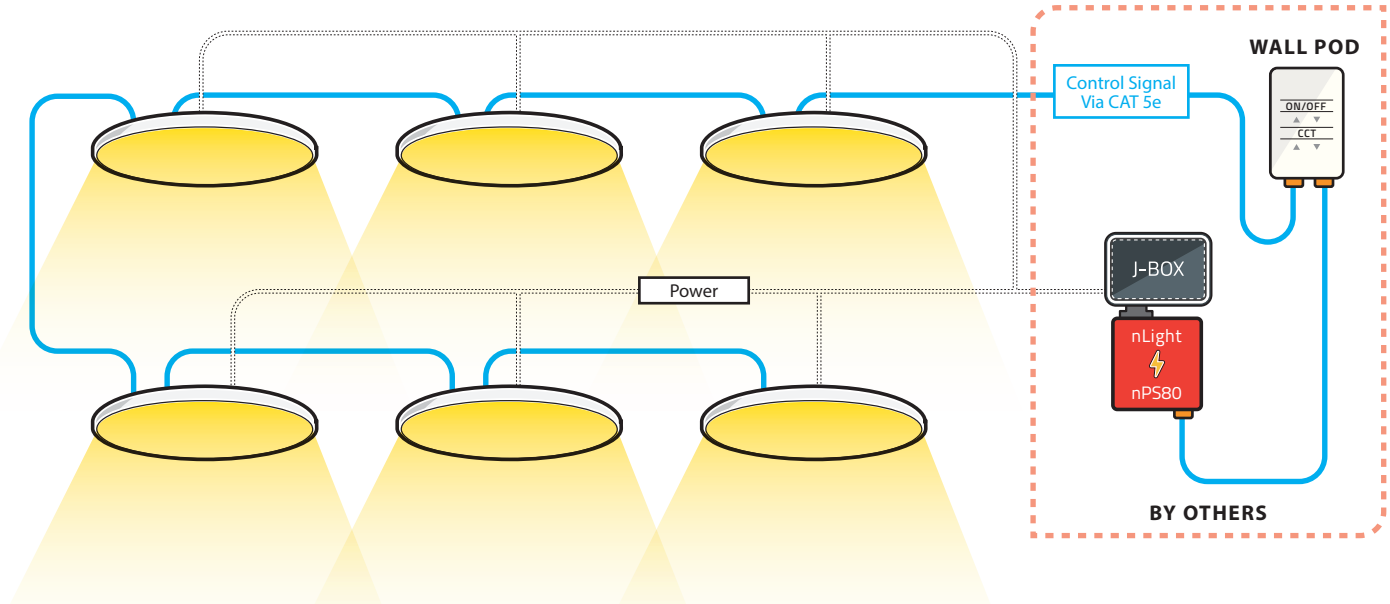


## SC – nLight

(nLight Control of Color & Intensity, Multiple Fixtures)

### TYPICAL NETWORK LAYOUT

**3 CORDS REQUIRED**



### BUS POWER CONSUMPTION

	LO			
	D1	D9	SC	DC
P8912	1mA	1mA	2mA	N/A
P8920			2mA	
P8930			3mA	
P4040				

- All nLight RJ45 ports are interchangeable (no dedicated IN or OUT).
- nLight zones must have a net positive amount of bus power. See table below for bus power consumption as a function of fixture size and output. Bus power is supplied by power/relay packs (nPP16 family and nPS80), power supplies (PP20 PL BP and nPANELS), nLight enabled fixtures, and bridges.