

# CUBE4-TW

Project Name:	
Type:	



### APPLICATION

Tunable White technology can mimic the natural daylight to support Circadian Rhythm - the biological clock, innate in the human body affected by the color temperatures. Ability to adjust color temperature and the light source intensity can enhance synchronization of bodies and minds, essential to ensure maximum productivity during the course of the day. This tunable technologies can provide the ultimate solution to optimize the needs from residential to commercial, healthcare, education, retails, entertainment, office, and more.

### MOUNTING:

- Pendant, surface and wall mount.
- Recessed mount including T-bar, Screw slot and Drywall.

### FINISH:

- Standard powder-coat textured white paint finish on exposed trim.
- Consult factory for custom colors.
- Comes with snap-in acrylic lens as standard.

### LISTING:

- UL /cUL listed.
- Listed to UL 1598 and UL 8750.
- UL listed for dry & damp location.
- CEC Compliant EM (please contact for more information).
- ARRA compliant.
- Warranty:  
**-265K & -275K** : 5 years limited warranty.  
**Power source**: 5 years limited warranty.



# Athena



The Athena wireless node is a radio frequency (RF) device that enables simple, digital control of individual light fixtures in an Athena control system.

### Control Installed on the Fixture



**AWNR-WH**  
Athena wireless node (RF only)



**AWNS-WH**  
Athena wireless node (RF w/ sensor and daylight)



**AWN-RK**  
Athena wireless node (RF only)



**AWN-RK**  
Athena wireless node (RF w/ sensor and daylight)

- RF version: plenum rated and can be installed above the ceiling for wireless control of a fixture without any impact on fixture aesthetics. (standard provided integrated).
- Occ. sensor version: provides wireless control of the fixture and includes a passive infrared (PIR) sensor for occupancy and a daylight sensor.
- Should be installed within 25ft (7.62m) of two or more Athena wireless nodes or other Clear Connect - Type X devices.
- cULus Listed (UL916)
- Complies with requirements for use in other spaces used for environmental air (plenums) per NEC® 2014 300.22(C)(3)
- FCC compliant with the limits for a Class B digital device.
- IC (Industry Canada)
- ANSI C137.1 0-10 V Electronic Off
- D4i certified
- Radio Frequency for Wireless Communication: 2.4GHz
- Ambient operating temperature (immediate vicinity of Athena wireless node): 32°F to 131°F (0 °C to 55 °C), 0% to 90% humidity, non-condensing; indoor use only.
- 5 years limited warranty.

# ARCHITECTURAL TUNABLE WHITE LINEAR

**ORDERING INFORMATION** \* These custom products are non-cancellable, non-returnable, and non-refundable with the exception of manufacturer defects or damages.

**EXAMPLE:** CUBE4-IND-4-D27L-275K-MU050

MODEL	ROW <sup>1</sup>	SECTION <sup>2</sup>
<b>CUBE4-IND</b> (Individual Mount) <b>CUBE4-CON</b> (Continuous Row Mount)	<b>xx'</b> Specify nominal overall row length in 1' increments (Continuous runs)	<b>2</b> 2' Length <b>3</b> 3' Length <b>4</b> 4' Length <b>6</b> 6' Length <b>8</b> 8' Length <sup>3</sup>
<b>CUBE4-SQ</b> (Square)	<b>X'-Y'</b> Specify dimension in inches. (Minimum required dimension is 2'-2") Must provide a sketch on the last page	
<b>CUBE4-CM</b> (Custom)	Must provide a sketch on the last page	

LED Downlight (per/4ft)	LED Uplight (per/4ft) <sup>4</sup>	SYSTEM	CRI	MOUNTING
(Blank) <b>D18L</b> 18W LED (734 lm/ft) <b>D27L</b> 27W LED (924 lm/ft) <b>D36L</b> 36W LED (991 lm/ft) <b>D48L</b> 48W LED (1384 lm/ft) <b>D54L</b> 54W LED (1467 lm/ft)	(Blank) <b>/U18L</b> 18W LED (530 lm/ft) <b>/U27L</b> 27W LED (733 lm/ft)	<b>-265K</b> Tunable White 2000-6500K <b>-275K</b> Tunable White 2700-5000K <b>-CCK</b> Tunable White custom CCT from 2000-6500K (Must specify the CCT range)	(Blank) <b>C9</b> 80+ CRI 90+ CRI <sup>6</sup>	(Blank) <b>S</b> Pendant <b>CS</b> Ceiling Surface <b>W</b> Wall <b>G1</b> 9/16", 15/16", 1" T-bar Ceiling Grid <sup>7</sup> <b>SS</b> Screw Slot Ceiling Grid <b>FT</b> Standard 1/2" Flange (Drywall) <sup>8,9</sup> <b>SF</b> Spackle Flange (Trimless) <sup>8,9</sup>

\* Maximum wattage per 4ft section  
- pendant/wall mount : 75W (up & down light)  
\* Contact factory for custom wattage or lumen requirement.

VOLTAGE	EM SECTION <sup>5</sup>	FINISH	CORD FINISH (for pendant)	CANOPY FINISH (for pendant)	CEILING TYPE (for pendant)
<b>UNV</b> 120-277V <b>120</b> 120V <b>277</b> 277V	(Blank) <b>1SE</b> None EM <b>2SE</b> 1 Section <b>xSE</b> 2 Section x Section	(Blank) <b>*BK</b> Matte White RAL #9003 (Std.) <b>*SV</b> Black RAL #9011 <b>**CC</b> Silver RAL #9022 <b>*CSS</b> Custom Color Custom Canopy Color (White is Std.) <b>*AMB</b> Anti-Microbial Coating (Matte Skye White)	(Blank) <b>*BKC</b> White (Std.) Black	(Blank) <b>*BC</b> White (Std.) <b>*SC</b> Black Canopy <b>**CSS</b> Silver Canopy Custom Canopy Color (White is Std.)	<b>X1</b> 15/16" grid T-bar ceiling <b>X2</b> Hard ceiling <b>X3</b> Sloped Hard ceiling <b>X4</b> 9/16" T-bar ceiling

\* Non-standard finish with extra charge.  
\*\* Additional charge & set up fee.

SUSPENSION LENGTH	LED DRIVER	LIGHTING CONTROL SYSTEM
<b>AC48</b> Adjustable Aircraft Cable Canopy 48"L <b>AC96</b> Adjustable Aircraft Cable Canopy 96"L <b>ST24</b> Stem Canopy 24"L <b>ST48</b> Stem Canopy 48"L	<b>ED560</b> eldo LED LightShape DALI dim to dark, 0.1% ~ 100%	<b>AWN-R-WH</b> Lutron Athena wireless node integral fixture control (RF only), white <b>AWN-R-BK</b> Lutron Athena wireless node integral fixture control (RF only), black <b>AWN-S-WH</b> Lutron Athena wireless node integral fixture control (RF with daylight and occupancy sensing), white <b>AWN-S-BK</b> Lutron Athena wireless node integral fixture control (RF with daylight and occupancy sensing), black

OPTIONS	
<b>HC90-11</b>	90° Horizontal Lit Connector, 1'x1' <sup>10</sup>
<b>HC90-12</b>	90° Horizontal Lit Connector, 1'x2' <sup>10</sup>
<b>HC90-21</b>	90° Horizontal Lit Connector, 2'x1' <sup>10</sup>
<b>HC90-22</b>	90° Horizontal Lit Connector, 2'x2' <sup>10</sup>
<b>HC135-22</b>	135° Horizontal Lit Connector, 2'x2' <sup>10</sup>
<b>TC</b>	T-Type Lit Connector <sup>11</sup>
<b>XC</b>	X-Type Lit Connector <sup>12</sup>
<b>CW90</b>	Ceiling to Wall corner connector <sup>16</sup>
<b>EMG8</b>	8W EM Battery Backup (CEC Compliant EM) <sup>13,14</sup>
<b>EMG15</b>	15W EM Battery Backup (CEC Compliant EM) <sup>13,14</sup>
<b>EMG20</b>	20W EM Battery Backup (CEC Compliant EM) <sup>13,14</sup>
<b>EMG25</b>	25W EM Battery Backup (CEC Compliant EM) <sup>13,14</sup>
<b>DROP</b>	1/2" drop lens
<b>COC</b>	Separated EM feed for City of Chicago code compliance
<b>E1F</b>	End feed on one end (pre-drilled hole for 1/2" fitting)
<b>E2F</b>	End feed on both end (pre-drilled hole for 1/2" fitting)
<b>STB</b>	Slip Through Bracket <sup>15</sup>

**NOTES:**

- Specify only when Continuous Row Mount.
- No need to select, if same as row length and section length.
- Comes with 1pc 8ft lens.
- Pendant and wall mount only.
- EM is installed in last 4' of luminaire sections. Separate section required 2SE or specified.
- Lumen per watt is around 15% less than standard CRI (80+).
- Compatible with T-bar ceiling type.
- Requires STB as standard, select from Options.
- Compatible with hard ceiling type.
- Refer to a separate CUBE4-HC90 spec sheet for more information.
- Refer to a separate CUBE4-T spec sheet for more information.
- Refer to a separate CUBE4-X spec sheet for more information.
- Contact factory for other emergency ballast options.
- Can be remote mounted for 2/3ft length due to limited space. Remote box by others.
- Required for -FT and -SF mounting option.
- Only applicable for -FT and -SF mounting option.

# CUBE4-TW

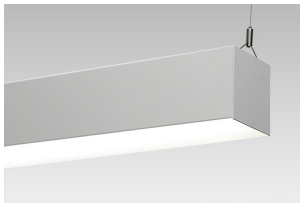
**TUNABLE WHITE SOLUTION**

**SPECIFICATION CHART**

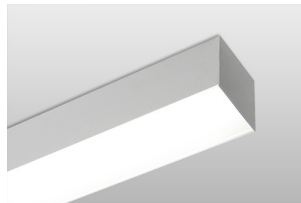
	-265K	-275K
Tunable Range	2000 - 6500K	2700 - 5000K
Lumen Efficiency	2500 lm/ft (at 3500K), >115 lm/W	
CRI	80+ (90+ optional)	
Dimming	0.1% - 100%	
Color Consistency	3-step MacAdam binning	
Lumen Maintenance	> 50,000 hours	
Control Options	DALI (#ED560)	
Warranty	5 years limited warranty	



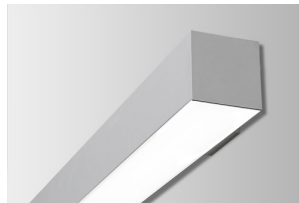
**Athena**  
wireless node (shown RF version)



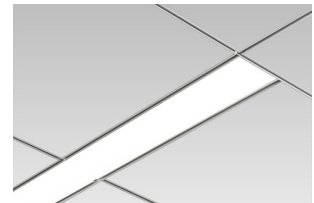
CABLE



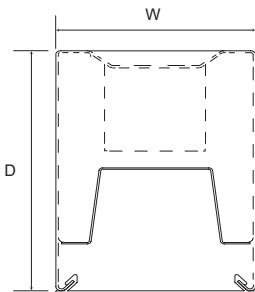
SURFACE



WALL



RECESSED



**Specifications: CUBE4**

Width: 4 (101)  
Depth: 4 (101)

All dimensions are in inches (millimeters).

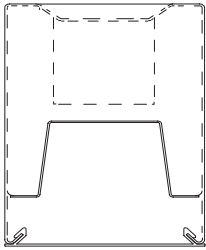
**WEIGHT**

Item	lbs	kg
CUBE 4 2FT PENDANT	8.36	3.79
CUBE 4 3FT PENDANT	10.95	4.97
CUBE 4 4FT PENDANT	13.70	6.22
CUBE 4 8FT PENDANT	24.97	11.33
CUBE 4 HC90 PENDANT	17.84	8.09
CUBE 4 X PENDANT	18.50	8.39
CUBE 4 T PENDANT	13.21	5.99

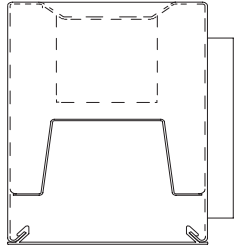
# CUBE4-TW

**- MOUNTING DETAILS**

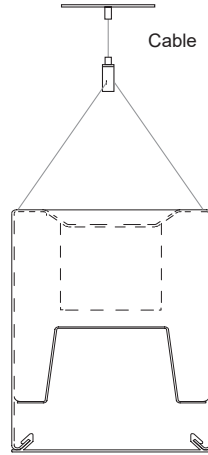
Surface



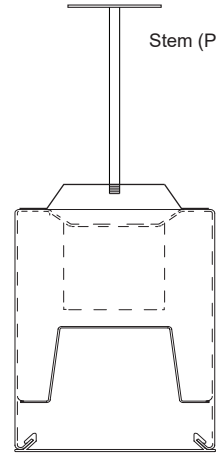
Wall



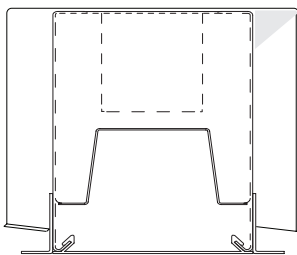
Cable



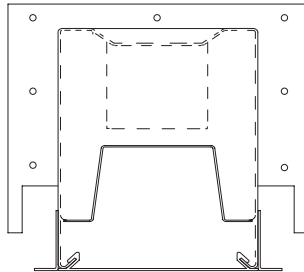
Stem (Pendent)



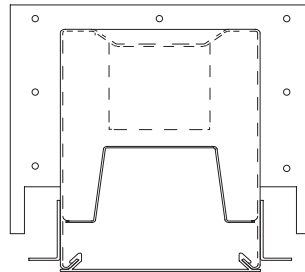
Drywall



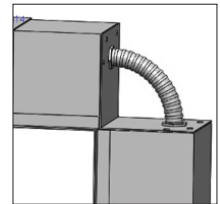
T-bar (G-1)



Screw Slot (SS)

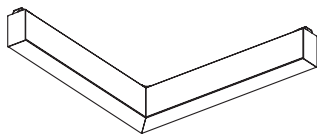


CW90



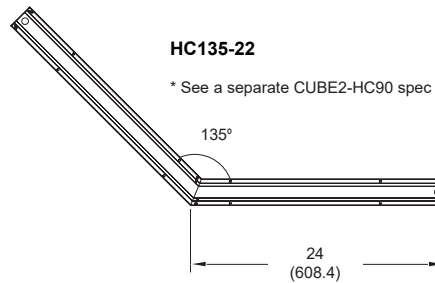
\* See a separate CUBE4-Recessed spec sheet to find detail information.

**- LIT CONNECTOR**



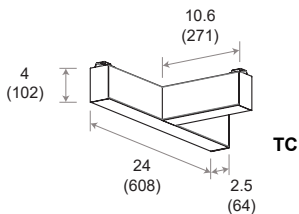
**HC90-11  
HC90-12  
HC90-21  
HC90-22**

\* See a separate CUBE2-HC90 spec sheet to find more information.

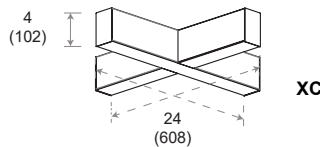


**HC135-22**

\* See a separate CUBE2-HC90 spec sheet to find more information.



**TC**



**XC**

# ARCHITECTURAL TUNABLE WHITE LINEAR

## CUBE 4 LIT CONNECTOR PATTERNS

The lit connector system allows continuous illumination all the way through the corner section.

**Instruction:**

- Please provide sketches illustrating corner types, overall dimensions including corner dimensions, and locations required.
- HC90, TC, and XC connectors are 90 degree corners (overall, outside dimension).

