



2/21/23

Milford Youth Center – Media Rm.

Addendum – 1 - List of Revisions Content

The intent of this document is to provide a listed summary of content included with Addendum-1

1. Architectural Drawings (Sheets: A100, A201, A301)
2. Bidding Guidelines Document (Revised 2/17/23)
3. Added Track Lighting Cutsheet
4. Added Ceiling Light Cutsheet
5. Added Ceiling Grid Cutsheet
6. Added Ceiling Panel Cutsheet
7. Pre-Bid RFI Log

Document provided by:

mjh Architects LLC, Bridgewater, MA, (508) 807 – 5323, e-mail: holmesarch@gmail.com



6/6/2022

Addendum-1 Date: 2/17/23

Milford Youth Center

Media Room Project

Bidding Guidelines Document

Architecture Scope:

1. **The procurement of the audio/visual equipment rack is not in the project scope. The placement/installation of the rack is in the project scope.**
2. All demo and remaining new work, (other than indicated above), as indicated on the drawings and specifications is in the project scope.
3. Contractor to provide architect with submittals to verify products being procured and installed along with any finish selections, (ex: color, trim packages, etc...).
4. All new lights should have white trim to match white suspended ceiling system.
5. Contractor to submit any pre-bid RFI's to the architect if needed after pre-bid walkthrough.
6. **ADDENDUM-1: SHADES FOR EXISTING WINDOWS HAVE BEEN ADDED TO THE PROJECT. Include 3 windows in media room space and an ADDITIONAL 3 for the windows in the adjacent Dance Room. (Total of 6 window shades in the project scope). Verify size in field prior to ordering. (approximately sizes are 18"W x 30"H).**

Mechanical – HVAC Scope:

1. **The existing space currently has a 'mini-split' wall mounted system that will remain for conditioning the space. The existing wall hung unit will need to be removed and re-installed to allow the finishing of the existing wall. The location of the unit will be altered to accommodate the new drop ceiling.**
2. Contractor is responsible for providing client with O&M manuals for any systems or equipment.
3. Contractor is responsible for providing any documentation required by the Town for permitting and final Certificate of Occupancy.
4. Any mechanical work that could interrupt the building operation during business hours should be coordinated with the Director and/or Facilities Manager.

Electrical Scope:

1. Contractor is responsible for inspecting and removing any existing wiring, lighting, low voltage components, thermostats, security cameras, fire alarm components in the space.
2. Some of the existing systems (ex: fire alarm strobes, pull boxes, mini-split, switches and outlets) should be removed and re-installed or relocated on new walls. These components should be noted during the pre-bid walkthrough and therefore understood not to be disposed of, but rather removed and relocated.
3. Contractor responsible for inspecting existing electrical panels for capacity and verifying that existing panels can be used for new scope of work.
4. Contractor responsible for supplying and installing new electrical conduit for all wiring. MC cable is acceptable on this project.
5. Contractor is responsible for supplying and installing the specified light fixtures, audio/visual wiring/infrastructure, any additional components required that fall within the electrical scope. These items include but are not limited to low voltage components and wiring of other discipline equipment.
 - a. Note: The workstation ("director's station") will require a min. of 3 SDI cables, internet cable (from wall) and power
 - b. Note: An XLR "snake" will be required from camera(s) to the audio board.
 - c. The cameras are not in the project scope.
6. Contractor is required to supply new or relocate existing emergency light(s) for the space as required by code.
7. Contractor is responsible for installing all new switches and other wall mounted accessories at the correct mounting height required by code.
8. Contractor is required to install any exit signage (per code) and any other signage specified per the drawings or specifications.
9. Contractor is responsible for providing any documentation required by the Town for permitting and final Certificate of Occupancy.
10. Any electrical work that could interrupt the building operation during business hours should be coordinated with the Director and/or Facilities Manager.
11. **ADDENDUM-1: New electrical outlets to be added to the space as required to meet electrical outlets a minimum of 8'-0" o.c. around the room. Duplex outlets throughout. Install one quad outlet adjacent to the "director's workstation" alcove (underneath sloped stair above).**

Plumbing Scope:

1. Contractor to observe the existing waste line and waste line vertical stacks condition during the pre-bid walkthrough to verify feasibility of alterations required.
2. The existing space has a waste line, steam condensate pipes, a steam pipe and vertical waste stacks. The waste line will need to be raised, steam condensate pipe lowered and re-routed. The existing steam pipe should be able to remain at its current location. See the drawings set for direction prior to the requirement pre-bid site meeting.
3. Any and all required pipe insulation to be furnished and installed under the plumber's scope of work.
4. Any plumbing work that could interrupt the building operation during business hours should be coordinated with the Director and/or Facilities Manager.

Fire Protection:

1. Contractor is responsible for inspecting and verifying the existing sprinkler system during pre-bid walkthrough to better understand the adjustment, relocation and addition of existing system with the new space after review of architectural design layout.
2. The existing sprinkler system currently has up-turn heads due to the exposed structure above. The new layout has an ACT suspended ceiling system and therefore down-turned heads will be required.
3. Contractor is responsible for disposing of all existing material that is removed during the renovation process.
4. Contractor is responsible for new sprinkler head spacing that meets code requirements and coordinating with the ceiling layout (ex: lights and other required ceiling mounted devices). Review architectural plans and layout new sprinkler heads to not conflict with any ceiling mounted devices.
5. Contractor is responsible for providing any documentation required by the Town for permitting and final Certificate of Occupancy. (ex: hydraulic calculations of existing system and new layout).
6. Contractor is responsible for altering any existing components (ex: structure) for re-routing of existing sprinkler piping or associated items. Altering any structure needs to be done in a manor that does not compromise the structural integrity. Holes should be cored in the center of the joists, beams or studs and not surpass the allowable size per code.
7. Any sprinkler work that could interrupt the building operation during business hours should be coordinated with the Director and/or Facilities Manager.

Fire Alarm:

1. Contractor is responsible for removal, relocation and/or reuse of existing fire alarm pull boxes and strobes.
2. Contractor is responsible for supplying and installing any additional pull boxes, strobes, heat sensors, etc. required by current codes.
3. Contractor is responsible for updating the existind fire alarm panel, (if one in facility), to accomodate the new space within the scope of work. Coordinate with electrical contractor if required.
4. Contractor is responsible for providing any documentation required by the Town for permitting and final Certificate of Occupancy.

This document has been provided to assist bidders on project scope and responsibilities by the Architect. The purpose is solely for clarification purposes and therefore the architect holds no responsibility for missed scope items during construction. All potential contractors for all disciplines should attend the pre-bid walkthrough to help understand the project and discipline scope. During the walk-through it is encouraged to ask questions and provide discipline feedback to avoid “gaps” in responsibilities and scope items. After the required pre-bid site walk RFI (Request For Information) will be accepted to answer or clarify any further scope items.

Contractors responsible for all work to meet applicable and current codes and regulations.

Document provided by:

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SEARCH

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Wi-Fi Smart 2 ft. 4-Light Matte Black Integrated LED Fixed Track Lighting Kit, Color Changing Tunable White

Product code: UF3VPM

\$173.00

Qty:

ADD TO CART



Direct delivery available in Southern California, Nevada and Arizona. Freight available nationwide. Please call for bulk pricing.



Product description

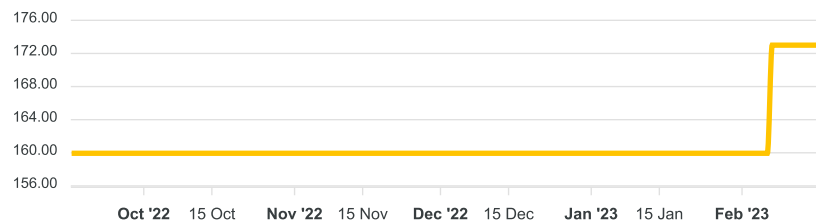
The Globe Electric Smart Track Light is a great start to your smart home automation. Simply install your track light as you would any other, pair it with the GLOBE SUITE App and you're ready to go. Designed and manufactured to perfection, small details were added to create a sleek and dynamic look that adds a modern element to any room while letting you create...

[READ MORE](#)

Estimated Delivery

March 3 - 5

Historical price chart



Product description

The Globe Electric Smart Track Light is a great start to your smart home automation. Simply install your track light as you would any other, pair it with the GLOBE SUITE App and you're ready to go. Designed and manufactured to perfection, small details were added to create a sleek and dynamic look that adds a modern element to any room while letting you create perfect lighting for any situation. Make sure your track light comes on when you arrive home. Create different moods for different times of the day or simply make sure

Features & Details


Brand Globe Electric
Actual Color Temperature (K) 5000



your light comes on and turns off at the same time every day to conserve energy. Plus, the tunable white feature is great for your health by allowing you to have bright white light in the morning and then a relaxed warm light for evenings. And that's not all. This track light lets you change the color of your room so you can create the perfect mood for any situation. The choice is yours and the options are plentiful. Home automation has never been so easy.

- Wi-fi smart track light fixture with pivoting track heads
- Integrated LED fixture - no need for light bulbs
- Perfect for a kitchen island, dining room, living room or bedroom
- No hub required: download the GLOBE SUITE app, connect to your Wi-Fi, and sync your track light, connect using 2.4 GHz, can use 5 GHz after initial connection
- Voice control: using your Google Assistant, Alexa, or Siri, you can control your track light with just the sound of your voice making your life a whole lot easier
- Scheduling: automate your daily routine with bedtime and wakeup schedules to stay in tune with your circadian rhythm or use a vacation mode to look like you're home when you're not
- Grouping: adjust your lights individually or group multiple items together to synchronize lighting for a whole room, and control them anytime, anywhere using the GLOBE SUITE app
- Device sharing: using the GLOBE SUITE app, easily share your smart device with other smart phones to allow friends and family to control an individual smart device when you're not around
- Lighting specs: 28-Watt integrated LED, dimmable with app, color changing (RGB), tunable white 2000K-5000K, 80 CRI, 1600 Lumens, 50,000-hour lifespan
- System requirements: connect with your Wi-Fi router at 2.4 GHz, runs on 2.4 GHz or 5 GHz after connection - mobile device running IOS 9.0 or higher / Android 4.4 or higher
- [Click here for more information on Electronic Recycling Programs](#)

READ LESS

Certifications And Listings	FCC Listed,cETLus
Color Rendering Index (CRI)	80
Color Temperature	Bright White,Cool White,Daylight,Neutral White,Soft White,Warm White
Compatible Bulb Type	LED
Damp/Wet Rating	Dry Rated
Features	Adjustable Lamp Head,Color Changing,Dimmable
Fixture Color Family	Matte Black
Fixture Color/Finish	Matte Black
Hardware Included	Yes
Lumens	1600
Manufacturer Warranty	2 year limited manufacturer's warranty
Mount Location	Ceiling Mounted
Mounting Hardware Included	Yes
Movable Fixtures	No
Number Of Tracks	1
Power Options	Hardwired
Power Source	Hard Wired
Product Depth (In.)	4.5 in
Product Height (In.)	8.25 in
Product Weight (Lb.)	3.59 lb
Product Width (In.)	31.25 in
Remote Access	Remote Access
Replaceable LED Module	No
Requires Hub?	No Hub Required
Returnable	90-Day
Shade Color Family	Black 

Smart Home Protocol	Wi-Fi
Smart Home	Smart Home Enabled
Track Head Type	Gimbal Head
Track Length (Ft.)	2 ft.
Track Lighting Type	Fixed Track
Voice Control Hub Required	No Hub Required for Voice Control
Voltage (V)	120v
Watt Equivalence	28
Works With	Alexa, Alexa, Google, Google Assistant, Proprietary App, Samsung SmartThings

[**READ LESS**](#)

LAST VIEWED ITEMS

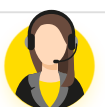


Wi-Fi Smart 2 ft. 4-Light Matte Black Integrated LED Fixed Track Lighting Kit,...

\$173.00

–
+

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Version: 3.11.0



Armstrong World Industries, Inc.
Environment, Health and Safety
2500 Columbia Avenue, P.O. Box 3001
Lancaster, PA 17604
Telephone 877 276 7876

Issued By : Safety, Health and
Industrial Hygiene Department

Date: 6/1/15 (replaces 6/1/12)

HMIS (0 = minimal hazard; 4 = severe hazard)
Health = 0
Flammability = 0
Reactivity = 0

Division: Building Products Division

I. Product Information

- A. Product Name: Hot Dipped Galvanized Sheet Steel Suspension Systems - MIS #9
Ceiling Grid and Steel Components
- B. Chemical Name and Synonyms: Product is galvanized sheet - low C and HSLA steel (hot dipped)
Accessory cc
- C. Description and Ingredient Information: Normally T shaped, hot dipped galvanized cold formed solid sheet steel.
Capped with hot dipped polyester painted solid sheet steel or aluminum solid sheet 3005 alloy.

II. Miscellaneous Information

This product is classified as an "article" according to Title 29 of the Code of Federal Regulations, OSHA Part 1910.1200(c). It is formed to a specific shape or design during manufacture, has end use function dependent upon its shape or design, and does not release any hazardous chemical under normal conditions of use.

* This Material Information Sheet is provided in lieu of a Material Safety Data Sheet. An MSDS is required only for chemicals or products that are hazardous as defined by the OSHA Standard 1910.1200. Please refer to the product's label for specific instructions and cautions before using the product.

ULTIMA® ULTIMA® High NRC

Tegular
fine texture



**TOTAL
ACOUSTICS®**
Sound Absorption (NRC)
+ Sound Blocking (CAC)



SUSTAIN®
High Performance
Sustainable
Ceiling Systems



DESIGNFlex™
A New World of Choice
for Ceiling Systems

DESIGNFlex™ CEILING SYSTEMS



See Ultima® Shapes Page 148-151

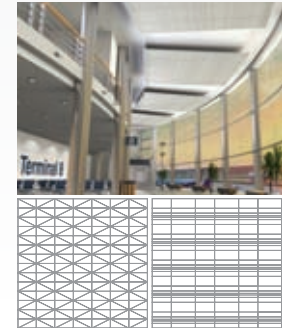
Personalize Your Design!

Mix and match different sizes, shapes, and materials to reinvent your ceiling. More at:

armstrongceilings.com/designflex



Ultima® Beveled Tegular panels with Sonata® 9/16" suspension system (Pg. 466)



plus capabilities
to do more



See more photos at:
armstrongceilings.com/photogallery
SEARCH: ultima

A smooth visual ceiling with Total Acoustics® performance, sound absorption, and blocking needed for today's flexible spaces.

KEY SELECTION ATTRIBUTES

- DesignFlex™ options include shapes and tailor-made sizes available to ship in 3 weeks
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics Performance
- Ultima® panels are part of the Sustain® portfolio, and meet the most stringent sustainability compliance standards today
- Smooth, clean, durable finish – Washable, Impact-resistant, Scratch-resistant, Soil-resistant
- Excellent sound absorption
- Ceiling-2-Ceiling™ Post-consumer Recycled Content options: items 1911HRC, 1912HRC, 1914HRC, 1915HRC. 71% Pre-consumer; 15% Post-consumer
- USDA-Certified Biobased Product – 88%
- Available with AirGuard™ coating
- Item 1912 available with Create!™ printed images and patterns
- Non-directional visual reduces scrap and installation time
- Compatible with the TechZone® Ceiling Systems
- 30-Year Limited System Warranty against visible sag (excludes items 1905 and 1929), mold, and mildew
- 10-Year replacement panel available for items 1911, 1912, 1914, 1915



TYPICAL APPLICATIONS

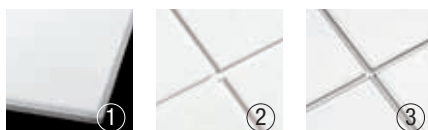
- Offices – closed spaces for privacy and confidentiality; open spaces for focus, collaboration, and teaming
- Healthcare – assists in addressing HIPAA, HCAHPS, and FGI acoustical requirements
- Classrooms
- Corridors
- Lobbies/reception areas
- Department stores/retail

COLOR



White
(WH)

DETAILS (Other Suspension Systems compatible. Refer to listing on page 381.)



1. Ultima® Beveled Tegular
2. Ultima® with Suprafine® 9/16" suspension system
3. Ultima® with Silhouette® XL® 9/16" suspension system with 1/4" reveal

ULTIMA® ULTIMA® High NRC

Tegular
fine texture

*Now options
in Shapes!*



GREENGUARD
Gold Certified
(details below)

Declare
Living Building
Challenge Compliant



SUSTAIN
High Performance
Sustainable
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

LEED v4

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at armstrongceilings.com/greengenie

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
ULTIMA® High NRC			
15/16" Beveled Tegular	15	1941	24 x 24 x 7/8" □
	15	1944	24 x 48 x 7/8" □
	15	1433	24 x 60 x 7/8" □
	15	1436	24 x 72 x 7/8" □
9/16" Beveled Tegular	29, 44, 48, 52, 56	1942	24 x 24 x 7/8" □
	29, 44, 48, 52, 56	1942HRC*	24 x 24 x 3/4" □
	29, 44, 48, 52, 56	1945	24 x 48 x 7/8" □
	29, 44, 48, 52, 56	1431	30 x 30 x 7/8" □
	29, 44, 48, 52, 56	1434	24 x 60 x 7/8" □
	29, 44, 48, 52, 56	1437	24 x 72 x 7/8" □

Size Capabilities	Width	Length
15/16" & 9/16" Beveled Tegular	7/8" Thick	
1 CTN MIN Made-to-Order Sizes (3 Wks)	4" – 5-1/2"	12" – 72"
	6" – 11-1/2"	6" – 72"
	12" – 24-1/2"	4" – 72"
	25" – 48"	4" – 30"

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)
 * HRC items not included in made-to-order panels.

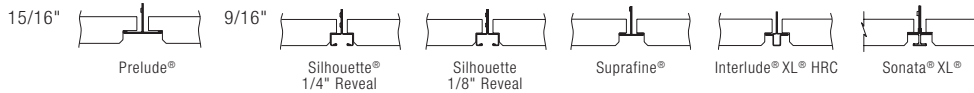
PERFORMANCE SELECTION

Dots represent high level of performance.

UL Classified Acoustics	Total Acoustics ¹	Articulation Class	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC + CAC =	NRC + CAC	AC	Fire	Light	Bio-Block	Humi-Guard+	VOC	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BETTER	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
0.80 • 35 •	BEST	170 •	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•
N/A N/A	–	–	Class A •	0.87 •	•	•	•	•	•	•	•	•	•	•

MORE ITEMS ▶

SUSPENSION SYSTEMS



Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material
Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish
DuraBrite scrim with factory-applied latex paint

Fire Performance
ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification
Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance
HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications.

Mold/Mildew Protection
Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions
GREENGUARD Gold Certified
Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010. This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance
CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

Primary (Embodied) Energy
See all LCA information on our EPDs.

High Recycled Content
Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.



Insulation Value
R Factor – 2.2 (BTU units)
R Factor – 0.39 (Watts units)

30-Year Performance Guarantee & Warranty
When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight; Square Feet/Carton
1945 – 1.14 lbs/SF; 48 SF/ctn 436 – 1.04 lbs/SF; 72 SF/ctn 1941, 1942 – 1.125 lbs/SF; 48 SF/ctn 434 – 1.06 lbs/SF; 62.5 SF/ctn 1944 – 1.125 lbs/SF; 48 SF/ctn 434 – 1.05 lbs/SF; 60 SF/ctn 1433 – 1.05 lbs/SF; 60 SF/ctn 437 – 1.04 lbs/SF; 72 SF/ctn

Minimum Order Quantity
1 carton

Metric Items Available
1941M, 1944M, 1945M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine 877 276-7876
armstrongceilings.com/commercial



381

MINERAL FIBER

ULTIMA® ULTIMA® High NRC

Tegular
fine texture

*Now options
in Shapes!*



GREENGUARD
Gold Certified
(details below)



Declare
Living Building
Challenge Compliant

SUSTAIN
High Performance
Sustainable
Ceiling Systems

UP TO **84%** RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- biobased materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at armstrongceilings.com/greengenie

LOCATION DEPENDENT

VISUAL SELECTION

PERFORMANCE SELECTION

Dots represent high level of performance.

\$\$\$

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/catdwgs	Item No.	Dimensions (Inches)
ULTIMA®	15/16" Beveled Tegular	1422	6 x 48 x 3/4"
		1917	12 x 24 x 3/4"
	15	1993	12 x 48 x 3/4"
	15	1994	12 x 60 x 3/4"
	15	1995	12 x 72 x 3/4"
	15	1911 1911HRC*	24 x 24 x 3/4"
	15	1951	24 x 24 x 3/4"
	15	1894	24 x 24 x 3/4"
	15	1914 1914HRC*	24 x 48 x 3/4"
	15	1985	24 x 60 x 3/4"
15	1981	24 x 72 x 3/4"	
9/16" Beveled Tegular	29, 44, 48, 52, 56	1423	6 x 48 x 3/4"
		1427	6 x 60 x 3/4"
	29, 44, 48, 52, 56	1916	12 x 24 x 3/4"
	29, 44, 48, 52, 56	1996	12 x 48 x 3/4"
	29, 44, 48, 52, 56	1997	12 x 60 x 3/4"
	29, 44, 48, 52, 56	1998	12 x 72 x 3/4"
	29, 44, 48, 52, 56	1912 1912HRC*	24 x 24 x 3/4"
	29, 44, 48, 52, 56	1952	24 x 24 x 3/4"
	29, 44, 48, 52, 56	1895	24 x 24 x 3/4"

UL Classified Acoustics		Total Acoustics ¹	Fire Performance	Light Reflect	Mold & Mildew Protection	Sag Resist	Certified Low VOC Emissions	Wash	Impact	Scratch	Soil	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC CAC	Class	0.90	Bio-Block	Humi-Guard+								
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	35	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	35	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	35	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.60	40	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.60	40	GOOD	Fire Guard™	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
N/A	N/A	-	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	35	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	35	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.65	35	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.75	35	BETTER	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.60	40	GOOD	Class A	0.90	•	•	•	•	•	•	•	•	•	•
0.60	40	GOOD	Fire Guard	0.90	•	•	•	•	•	•	•	•	•	•

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

* HRC items not included in made-to-order panels.



MINERAL FIBER

ULTIMA® ULTIMA® High NRC

Now options
in Shapes!

Tegular
fine texture



GREENGUARD
Gold Certified
(details below)



Declare™
Living Building
Challenge Compliant

SUSTAIN™
High Performance
Sustainable
Ceiling Systems

UP TO 84% RECYCLED CONTENT

LEED®

- energy management
- construction waste mgmt
- regional materials
- design for flexibility
- EPD
- recyclable/extended producer resp.
- bio-based materials
- recycled content
- sourcing of raw materials
- material ingredient reporting
- low emitting materials
- lighting quality
- acoustics

Calculate LEED contribution at
armstrongceilings.com/greengenie

VISUAL SELECTION

Edge Profile	Susp. Dwg. Pgs. 474-478 armstrongceilings.com/cattwgs	Item No.	Dimensions (Inches)
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ULTIMA®

9/16" Beveled Tegular	29, 44, 48, 52, 56	1915 1915HRC*	24 x 48 x 3/4"
29, 44, 48, 52, 56		1986	24 x 60 x 3/4"
29, 44, 48, 52, 56		1982	24 x 72 x 3/4"
29, 44, 48, 52, 56		1905 1905HRC*	30 x 30 x 3/4"
29, 44, 48, 52, 56		1929 1929HRC*	30 x 54 x 3/4"

Size Capabilities

	Width	Length
15/16" & 9/16" Beveled Tegular	3/4" Thick	
1 CTN MIN Made-to-Order Sizes (3 Wks)	4" - 5-1/2"	12" - 72"
	6" - 11-1/2"	6" - 72"
	12" - 30"	18" - 72"
	30-1/2" - 48"	4" - 30"

ULTIMA® with AirGuard™ Coating



Actively removes formaldehyde from indoor air.

15/16" Beveled Tegular	15	1901	24 x 24 x 3/4"
15		1904	24 x 48 x 3/4"
9/16" Beveled Tegular	29, 44, 48, 52, 56	1902	24 x 24 x 3/4"
29, 44, 48, 52, 56		1906	24 x 48 x 3/4"

¹ Total Acoustics® ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

* HRC items not included in made-to-order panels.

SUSPENSION SYSTEMS



Blizzard White – Suspension System Finish

A color and texture coordinated suspension system to complement Ultima ceiling panels for a monolithic look and feel.

PHYSICAL DATA

Material

Wet-formed mineral fiber with DuraBrite® acoustically transparent membrane

Surface Finish

DuraBrite with factory-applied latex paint

Fire Performance

ASTM E84 and CAN/ULC S102 surface burning characteristics. Flame Spread Index 25 or less. Smoke Developed Index 50 or less (UL labeled). Fire Guard™: A fire-resistive ceiling when used in applicable UL assemblies (Class A).

ASTM E1264 Classification

Type IV, Form 2, Pattern E
Fire Class A

Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas subject to high humidity, up to, but not including, standing water and outdoor applications. (Excludes items 1905 and 1929).

Mold/Mildew Protection

Ceiling panels with BioBlock® performance resist the growth of mold and mildew.

VOC Emissions

GREENGUARD Gold Certified

Third-party certified compliant with California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010.

This standard is the guideline for low emissions in LEED, CalGreen Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI Green Building Assessment Protocol.

Acoustical Performance

CAC testing conducted using Prelude® XL® suspension system for 15/16" edge detail and Silhouette® suspension system for 9/16" edge detail.

Primary (Embodied) Energy

See all LCA information on our EPDs.

High Recycled Content

Contains greater than 50% total recycled content. Total recycled content based on product composition of post-consumer and pre-consumer (post-industrial) recycled content per FTC guidelines. HRC items contain 15% or greater post-consumer recycled ceilings.

Insulation Value

R Factor – 2.2 (BTU units) R Factor – 0.39 (Watts units)

PRODUCT CERTIFIED FOR LOW CHEMICAL EMISSIONS
UL.COM/GG
UL 2818



30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System. Details at armstrongceilings.com

Weight: Square Feet/Carton

1917, 1993 – 1.05 lbs/SF; 24 SF/ctn
1422 – 1.08 lbs/SF; 24 SF/ctn
1905 – 1.05 lbs/SF; 62.5 SF/ctn
1911, 1912, 1914, 1915 – 1.05 lbs/SF; 48 SF/ctn
1916, 1996 – 1.05 lbs/SF; 24 SF/ctn
1423 – 1.08 lbs/SF; 24 SF/ctn
1427 – 1.07 lbs/SF; 24 SF/ctn
1929 – 1.02 lbs/SF; 68 SF/ctn
1895, 1952, 1951 – 1.31 lbs/SF; 48 SF/ctn
1901, 1902, 1904, 1906 – 1.08 lbs/SF; 48 SF/ctn
1997, 1994 – 1.05 lbs/SF; 30 SF/ctn
1998, 1995 – 1.05 lbs/SF; 36 SF/ctn
1981, 1982 – 1.08 lbs/SF; 72 SF/ctn
1894, 1985, 1986 – 1.08 lbs/SF; 80 SF/ctn

Minimum Order Quantity

1 carton

Metric Items Available

1905M, 1912M, 1912MHRC, 1914M, 1915M, 1916M – Metric items are subject to extended lead times and minimum quantities. Contact your representative for more details.

TechLine / 1 877 276 7876
armstrongceilings.com/commercial
(search: ultima)
BPCS-3039-618

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Declare™ is a service mark of The International Living Future Institute
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Armstrong®
CEILING & WALL SOLUTIONS

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MINERAL FIBER

Project Name:

Type:

Quantity:

FIXTURE SPECIFICATIONS

INTENDED USE

Our linear architectural LED lights come with a variety of color temperature, dimming, CRI and voltage options. Ideal for commercial, hospitality and residential interior lighting, this 2-inch lens opening fixture offers an RGBW and Bluetooth Light Mesh smart phone app for optimal performance and versatility. This linear fixture comes in standard lengths of 2ft, 3ft, 4ft, 6ft and 8ft and can be joined together for seamless runs of any length. Available with varying options in lumen output.

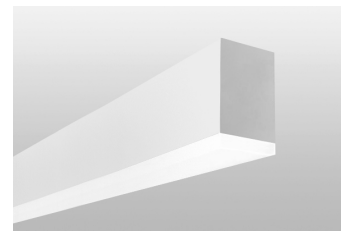
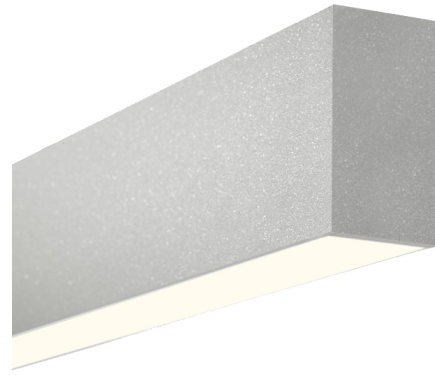
PRODUCT FAMILY

- 12100-20-P** Pendant Mount
- 12100-20-W** Wall Mount
- 12100-20-S** Surface Mount
- 12100-20-R** Recessed Mount

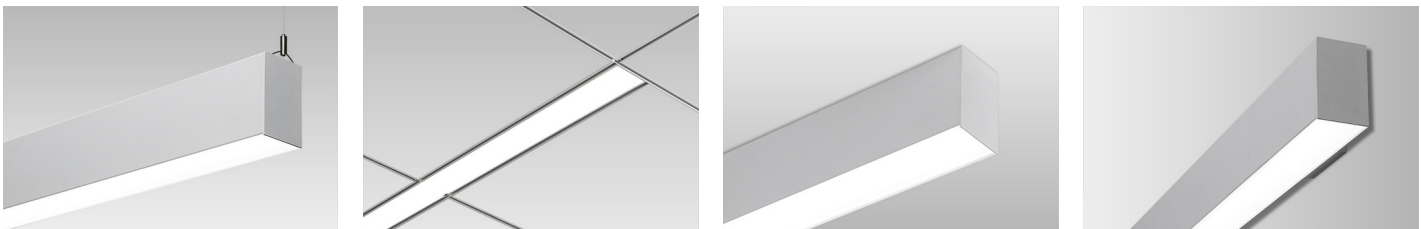
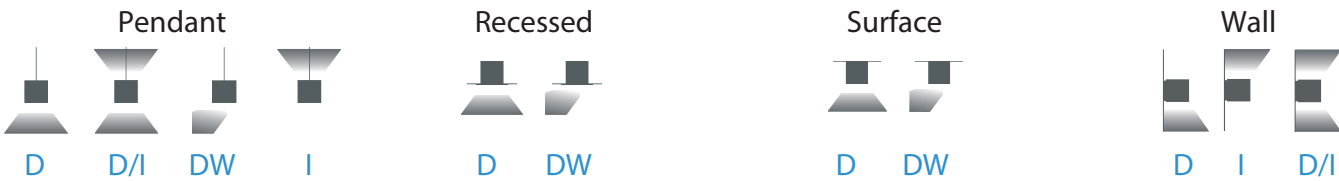
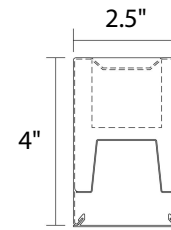
- AVAILABLE LENGTHS**
2FT, 3FT, 4FT, 6FT & 8FT
Continuous Run | Consult Factory
Custom Length | Consult Factory

FEATURES

- Construction:** Die-formed and welded 22-gauge cold rolled steel, painted finish with premium paint
- Continuous Run:** Full ability to tandem mount for continuous run application
- Indirect Mounting:** For most effective indirect lighting result, mount at no less than 18" from the ceiling
- Custom Design:** Offered with pre-fabricated and fully illuminated corners
- Lens:** Glare-free, frosted acrylic snap-in flat or 1/2" snap-in drop lens for even distribution
- Voltage:** 50/60 Hz Constant current 0-10V @ 120-277V, TRIAC & ELV @ 120V RGBW Tunable White @ 120-277V
- Dimming for Static Color:** 0-10V, TRIAC (Forward-phase), ELV (Reverse-phase)
- RGBW Smart Phone App:** Light Mesh Bluetooth App for [iOS](#) and [Android](#)
- Life:** +60,000 Reported L70 Hours @ 55°C
- Operating Temperature:** 4°F (-20°C) ~ 122°F (50°C).
- Warranty:** 5 years (Dynamic Colors) and 2 years (RGBW & Tunable White) Carefree for parts & components (Labor not included)
- Listings:** cULus Listed, UL listed for damp location, ADA compliant (Less than 4" off wall)



Optional Drop Down Lens



ORDERING INFORMATION Example: (12100-20-P-D-4-S-4-27K-010-WH-WH-8-FL)

MODEL	12100-20 2.5" x 4"		
MOUNTING	P Pendant W Wall S Surface	RT Recessed T-Bar Grid RS Recessed Screw Slot Grid	RF Recessed Flanged RTL Recessed Trimless
OPTICS	D Direct DW Direct Wallwash ¹⁶	DI Direct / Indirect DWI Direct Wallwash / Indirect ¹⁶	I Indirect
LED DOWNLIGHT <i>Wattage & Lumens per foot</i>	DYNAMIC WHITE D4 4.5 Watts 734 lms D6 6.75 Watts 924 lms D9 9 Watts 991 lms D12 12 Watts 1384 lms D13 13.5 Watts 1467 lms Dx Specify Lumens ¹⁷ (Min 113 lms - Max 2000 lms)	TUNABLE WHITE TW-4 4.5 Watts 734 lms ¹⁴ TW-6 6.75 Watts 924 lms ¹⁴ TW-9 9 Watts 991 lms ¹⁴ TW-12 12 Watts 1384 lms ¹⁴ TW-13 13.5 Watts 1467 lms ¹⁴ TW-DLO 4.4 Watts 494 lms ¹⁵ TW-DHO 8.8 Watts 988 lms ¹⁵	RGBW¹³ RGBW-D10 10 Watts 425 lms
LED UPLIGHT^{1,2} <i>Wattage & Lumens per foot</i>	DYNAMIC WHITE Blank Not Required I4 4.5 Watts 530 lms I6 6.75 Watts 733 lms ³	TUNABLE WHITE Blank Not Required TW-4 4.5 Watts 734 lms ¹⁴ TW-6 6.75 Watts 924 lms ¹⁴ TW-ILO 4.4 Watts 494 lms ¹⁵ TW-IHO 8.8 Watts 988 lms ¹⁵	RGBW¹³ Blank Not Required RGBW-I10 10 Watts 425 lms
SHAPE	(Specify in Feet) Sx Single Run <i>xx</i> = 2', 3', 4', 6' or 8' CRx Continuous Run <i>xx</i> = Length RCx Rectangle ⁵ <i>xx</i> = Width & Length SQx Square ⁵ <i>xx</i> = Width & Length	Xxx Cross ⁵ <i>xx</i> = Leg 1 & Leg 2 Txx Tee ⁵ <i>xx</i> = Top leg & Base Leg 90xx 90° Angle ⁵ <i>xx</i> = Leg 1 & Leg 2 135xx 135° Angle ⁵ <i>xx</i> = Leg 1 & Leg 2	CWxx Ceiling to Wall ⁵ <i>xx</i> = Ceiling & Wall CU Custom ⁶
COLOR TEMPERATURE	DYNAMIC WHITE 27K 2700K Warm White ¹⁸ 30K 3000K Soft White 35K 3500K Neutral White 40K 4000K Cool White 50K 5000K Daylight	TUNABLE WHITE TW2750 2700-5000K (Wired) ⁷ TW2065 2000-6500K (Wired) ⁷ TW2762 2700-6200K (Wireless) ^{4,8}	RGBW¹³ RGBW30 RGB + W (3000K) RGBW42 RGB + W (4200K)
DRIVER	010 0-10V 1% Standard TRI Triac (120V) ELV Electronic Low Voltage LDE5 Ecosystem 5-Series 5% LDE1 Ecosystem Hi-Lume 1% ES566 eldoLED 0-10V SOLOdrive BLS Bi-Level Step 40/100% BLSxx Bi-Level Step <i>xx</i> /100% TLS Tri-Level Step 30/70/100% TLSxx Tri-Level Step <i>xx</i> /70/ <i>xx</i> /100%	050 Tunable White 0-10V	24V RGBW & Wireless Tunable White ⁸
FINISH	WH White (Matte) Standard SL Silver (Matte)	BK Black (Matte) RAL# Specify RAL # (Pg. 3)	
PENDANT MOUNTING	Blank Not Required	AC4 4' Adjustable Aircraft Cable AC8 8' Adjustable Aircraft Cable ACxx Specify <i>xx</i> ' in Feet (Max 30')	ST2 2' Stem ¹² ST4 4' Stem ¹² STxx Specify <i>xx</i> ' in Feet (Max 8') ¹²
PENDANT CEILING TYPE	Blank Not Required	T T-Bar Ceiling	H Hard Ceiling SH Hard Ceiling Sloped
CORD / CANOPY FINISH	WH/WH White Cord / White Canopy WH/BK White Cord / Black Canopy	BK/BK Black Cord / Black Canopy BK/WH Black Cord / White Canopy	WH/RAL# White Cord / Specify RAL # (Page 3) BK/RAL# Black Cord / Specify RAL # (Page 3)
CRI	8 80+ CRI	9 90+ CRI ⁹	
LENS	FL Flat Standard	DL 1/2" Drop Down	
CONTROLS	DYNAMIC WHITE Blank Not Required LV Lutron VIVE Wireless ¹¹ FE Fulham Elite Control ¹¹	TUNABLE WHITE⁴ TW-WWR-BK Wireless Black Wall Remote TW-WWR-WH Wireless White Wall Remote TW-DWR-BK Wireless Black Desktop Remote	RGBW¹³ RGBW-APP iOS/Android Bluetooth App RGBW-SZ Wireless RF Remote Control Single Zone RGBW-MZ Wireless RF Remote Control Multi Zone
WARRANTY	Blank 5 Year Warranty Standard	W7 7 Year Warranty	W10 10 Year Warranty
OPTIONS	EM8 8W Emergency Battery EM15 15W Emergency Battery EM20 20W Emergency Battery	OS Occupancy & Daylight Harvesting Sensor DS Daylight Dimming Photo Sensor ELCU-200 Fail-to-on Emergency UL924	AB Separate Uplight & Downlight Dimming Control ¹⁰ GTD Bodine Generator Transfer Device COC Chicago Code Compliance Separated EM Feed
VIVE CONTROL SYSTEM <i>(OPTIONAL NOT REQUIRED)</i>	VDO Integral RF Occupancy/Daylight (EcoSystem) VRF Integral RF (EcoSystem)	FCJ50 PowPak (0-10V) FCJSE PowPak (EcoSystem) FCJ50EM EM UL924 PowPak (0-10V) FCJSEEM EM UL924 PowPak (EcoSystem)	RMJS8T PowPak RF (0-10V) RMJSECO32 PowPak RF Single Zone (EcoSystem) RMJS8TEM EM UL924 PowPak RF (0-10V)
FULHAM CONTROL SYSTEM <i>(OPTIONAL NOT REQUIRED)</i>	ELIOP-SR Occupancy & Daylight Harvesting (Short Range) ELIOP-LR Occupancy & Daylight Harvesting (Long Range)	SR-W White Wireless Single Rocker Pad DR-W White Wireless Double Rocker Pad	

1 Only available for Pendant and Wall Mounts with General Downlight Optics

2 RGBW downlight can be paired with a static color temperature uplight or RGBW uplight

3 Only compatible with D6 & D12 Downlight Wattages

4 Wireless control must be specified (page 5)

5 Minimum Length of 2 Feet

6 Draw your custom shape and send us your idea to

rfq@alconlighting.com ⁷ Must be Paired with 050 Driver

⁸ Must specify for RGBW & Wireless Tunable White 24V Driver

⁹ Not available for RGBW

¹⁰ For RGBW, AB is only available though RGBW-MZ control or RGBW-APP

¹¹ Control system must be specified for this feature

¹² Stem finish will be the same as fixture finish

¹³ Bluetooth app control or wireless control must be specified for this feature (cannot be combined)

¹⁴ Only for Wired Tunable White Control

¹⁵ Only for Wireless Tunable White Control

¹⁶ Not available for RT, RS, and RF mountings.

¹⁷ Max lumen for 6' & 8' lengths is 1467 lms.

¹⁸ Only available in 90CRI

Available Finishes

Standard

	Matte White	RAL #9003
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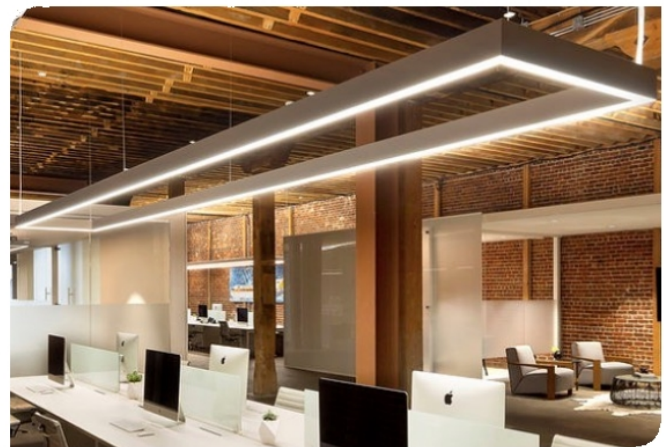
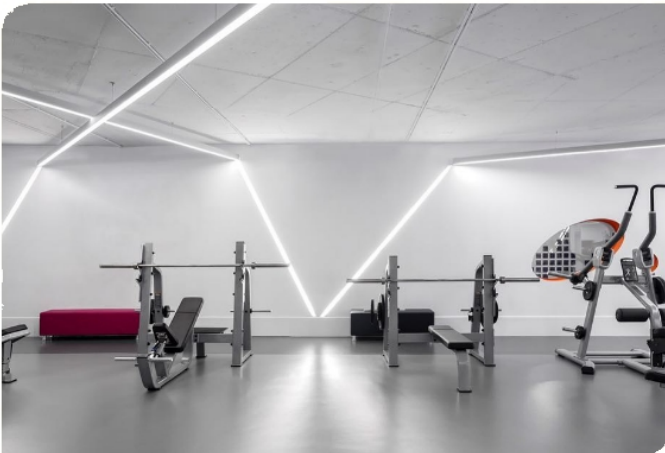
Set up fee and longer lead time will be applied on non-standard finishes.

Metropolitan

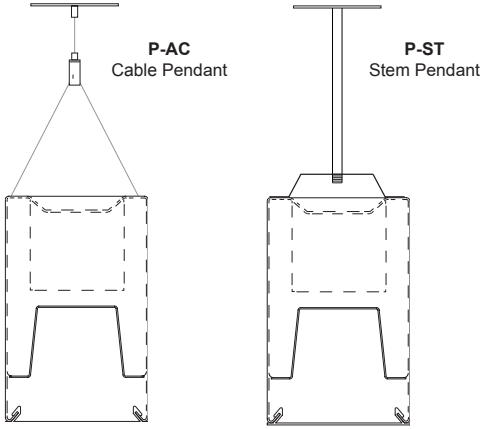
	Black	RAL #9011
	Silver	RAL #9022
	Asher Grey	RAL #7004
	Mason	RAL #7039
	Slate	RAL #7031
	Tech Grey	RAL #7016
	Chocolate Spice	RAL #8017
	Urban Native	RAL #8025
	Carmin	RAL #8028
	Reseda Green	RAL #6011

Vibrant

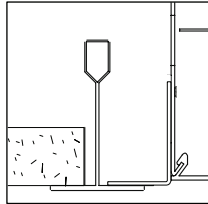
	Violet Dreams	RAL #4006
	Purple Red	RAL #3004
	Carmine Red	RAL #3002
	Rose	RAL #3017
	Pure Orange	RAL #2004
	Traffic Yellow	RAL #1023
	Daisy	RAL #1018
	Antique Spring	RAL #6019
	Island Skye	RAL #6027
	Sky Blue	RAL #5015



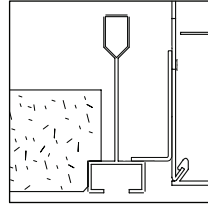
Mounting



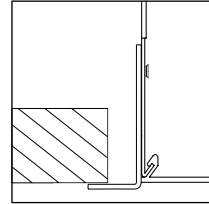
RT - T-Bar Grid Mount



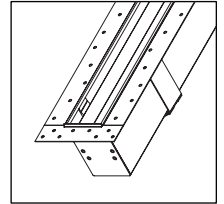
RS - Screw Slot Mount



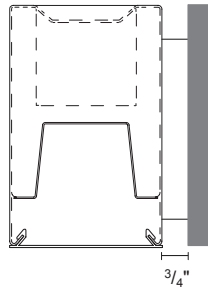
RF - Flange Detail



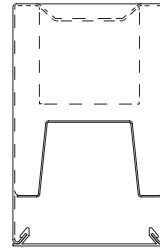
RTL - Trimeless Detail



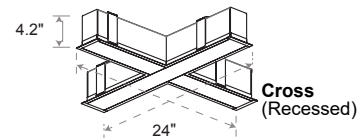
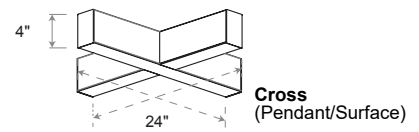
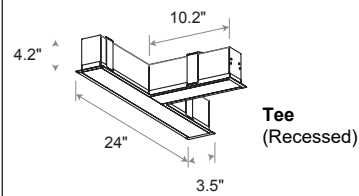
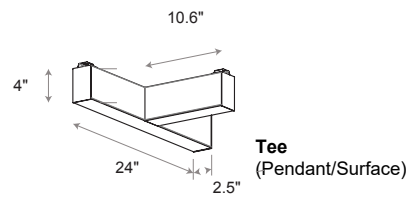
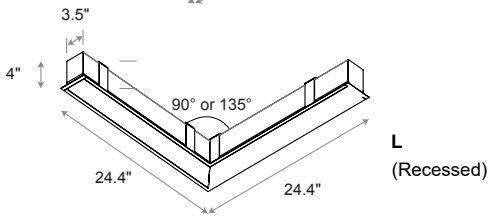
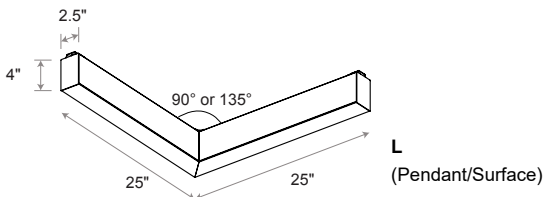
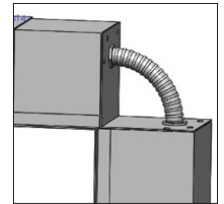
W - Wall



S - Surface



CW - Ceiling to Wall



Compatible Dimmers

	Dynamic White			TUNABLE WHITE
	Triac	ELV	0-10V	0-10V
	TG-600P LG-600P TGCL-153P DV-600P DVCL-153P S-603PG CT-103P S-600P	DVELV-303P SELV-300P MAELV-600 FAELV-500	NTSTV NFTV DVSTV	DVTV DVSTV <i>For use with TW2750 & TW2065 Must order two items: (1) For Dimming (2) For Color Tuning</i>
	6161 6633-P 6683 6631-2 IPI06-1LZ	IPE04 VPE06-1LZ	IP710-DLZ	

Wireless Tunable White Control

Weight	0.35 lbs
Dimming Type	PWM
Signal Type	RF (Radio Frequency) 434 MHz/868MHz
Range	100ft from fixture
Maximum Load	24V @ DC 480W
Working Temperature	-20°F to 140°F (-28C to 60°C)
Battery	3V (CR2032 Battery)

Wall

L - 4 3/8" x W - 3 1/4" x D - 1 3/4"

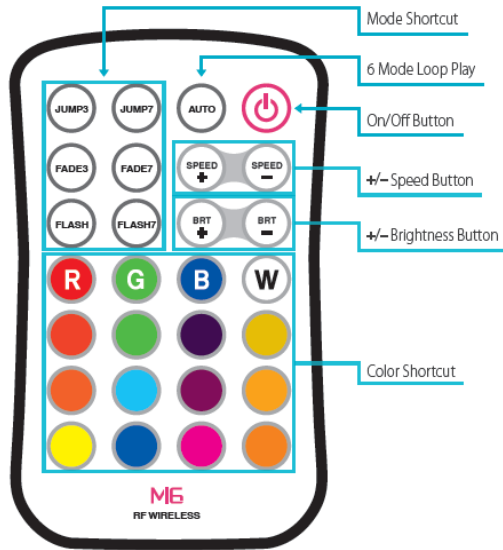


Desktop

L - 4 3/8" x W - 3 1/4" x D - 2 1/2"



RGBW-SZ | RF Remote Control Single Zone



Dimensions	H 5-3/4" x W 2-5/16" x D 3/8"
Supply Voltage	24V DC constant voltage
Signal Type	RF (Radio Frequency) 433.92MHz
Range	165ft from fixture
Maximum Load	24V @ DC 216W
Working Temp.	-4°F to 131°F (-20°C to 55°C)
Battery	3V (CR2032 battery)

Wall mount plate is included

RGBW-MZ | RF Remote Control Multi Zone



Dimensions	L 5.7" x W 2.1" x H 0.86"
Input Voltage	DC5V (Built-in Lithium battery)
Working Frequency	2.4 GHz
Max. Distance	98ft from fixture
Maximum Load	24V @ 360W
Change Mode	18 color modes
Scale Level	1024 x 1024 x 1024
Weight (G.W.)	0.44 lbs
Working Temp.	-22°F to 131°F (-30°C to 55°C)
Zone	up to 10

Wall mount plate is included

Preset Modes

1	3 Color jump	10	Green / Cyan fade
2	7 Color jump	11	Blue / Purple fade
3	White flash	12	Green / Yellow fade
4	7 Color flash	13	Blue / Cyan fade
5	RGB fade in / out	14	Red / Purple fade
6	Red / Green fade	15	Blue / White fade
7	Red / Blue fade	16	Yellow / Purple / Cyan fade
8	Green / Blue fade	17	RGB fade
9	Red / Yellow fade	18	Full-color fade

Controls

Smart Sensors	Protocol	Compatible Networks	Occupancy	Daylight	Temperature Reporting	Communication to Luminaire
	Lutron Clear Connect	Lutron Vive System Network	Enabled	Enabled	No	Wireless
	eliteBlue	EliteControl SmartBridge	Enabled	Enabled	No	Wireless

Controls Installed on the Fixture


VDO
Individual
Fixture Control

Shipped LUTRON VIVE Enabled with VDO Vive Integral Fixture Control (with Sensing).


FCJSE
Individual
Fixture Control

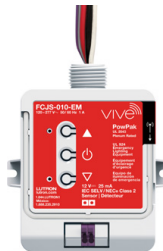
Shipped LUTRON VIVE Enabled FCJSE Control Module Control Module Installed on the Fixture.


RMJS8TEM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJS8TEM Control Module Control Module Installed on the Fixture.


VRF
Individual
Fixture Control

Shipped LUTRON VIVE Enabled with VRF Vive Integral Fixture Control (RF Only) Install on the Fixture.


FCJS0EM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJS0 Control Module Installed on the Fixture.


RMJS8T
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJS8T Control Module Installed on the Fixture.


FCJS0
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJS0 Control Module Installed on the Fixture.


FCJSEEM
Individual
Fixture Control

Shipped LUTRON VIVE Enabled FCJSEEM Control Module Control Module Installed on the Fixture.


RMJSECO32
Individual
Fixture Control

Shipped LUTRON VIVE Enabled RMJSECO32 Control Module Control Module Installed on the Fixture.



Controls Installed on the Fixture

ELIOP-SR

Short Range, Bluetooth compatible occupancy and Daylight Harvesting Sensor.


ELIOP-LR

Long range, Bluetooth compatible occupancy and Daylight Harvesting Sensor.



Controls Provided by Fulham


SR-W - Bluetooth Single
Rocker Pad

SR-D - Bluetooth Double
Rocker Pad

Photometrics (for Dynamic Color Temperatures)

Direct

12100-20-D4-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	555 FC	3.9 FT 3.1 FT
3.3FT	147 FC	7.6 FT 6.1 FT
5.0FT	64.1 FC	11.6 FT 9.2 FT
6.7FT	35.7 FC	15.5 FT 12.3 FT
8.3FT	23.3 FC	19.2 FT 15.2 FT
10.0FT	16.0 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D13-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	993 FC	3.9 FT 3.1 FT
3.3FT	263 FC	7.6 FT 6.1 FT
5.0FT	115 FC	11.6 FT 9.2 FT
6.7FT	63.9 FC	15.5 FT 12.3 FT
8.3FT	41.6 FC	19.2 FT 15.2 FT
10.0FT	28.7 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D6-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,117 FC	3.9 FT 3.1 FT
3.3FT	296 FC	7.6 FT 6.1 FT
5.0FT	129 FC	11.6 FT 9.2 FT
6.7FT	71.9 FC	15.5 FT 12.3 FT
8.3FT	46.8 FC	19.2 FT 15.2 FT
10.0FT	32.3 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

12100-20-D13-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,986 FC	3.9 FT 3.1 FT
3.3FT	527 FC	7.6 FT 6.1 FT
5.0FT	230 FC	11.6 FT 9.2 FT
6.7FT	128 FC	15.5 FT 12.3 FT
8.3FT	83.3 FC	19.2 FT 15.2 FT
10.0FT	54.7 FC	23.2 FT 18.4 FT

■ Vert. Spread: 98.4°
■ Horiz. Spread: 85.1°

Direct/Indirect

12100-20-D6-I6-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	470 FC	3.9 FT 3.3 FT
3.3FT	296 FC	7.6 FT 6.5 FT
5.0FT	129 FC	11.5 FT 9.8 FT
6.7FT	71.9 FC	15.5 FT 13.2 FT
8.3FT	46.8 FC	19.1 FT 16.3 FT
10.0FT	32.3 FC	23.1 FT 19.7 FT

■ Vert. Spread: 98.1°
■ Horiz. Spread: 89.0°

12100-20-D13-I4-S-4
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	982 FC	3.8 FT 3.1 FT
3.3FT	261 FC	7.4 FT 5.9 FT
5.0FT	114 FC	11.3 FT 9.0 FT
6.7FT	63.2 FC	15.1 FT 12.1 FT
8.3FT	41.2 FC	18.7 FT 14.9 FT
10.0FT	28.4 FC	22.6 FT 18.0 FT

■ Vert. Spread: 96.9°
■ Horiz. Spread: 83.9°

12100-20-D9-I6-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	940 FC	3.9 FT 3.3 FT
3.3FT	249 FC	7.6 FT 6.5 FT
5.0FT	109 FC	11.5 FT 9.8 FT
6.7FT	60.5 FC	15.5 FT 13.2 FT
8.3FT	39.4 FC	19.1 FT 16.3 FT
10.0FT	27.2 FC	23.1 FT 19.7 FT

■ Vert. Spread: 98.1°
■ Horiz. Spread: 89.0°

12100-20-D6-I4-S-8
Illuminance at a Distance

	Center Beam FC	Beam Width
1.7FT	1,965 FC	3.8 FT 3.1 FT
3.3FT	521 FC	7.4 FT 5.9 FT
5.0FT	227 FC	11.3 FT 9.0 FT
6.7FT	126 FC	15.1 FT 12.1 FT
8.3FT	82.4 FC	18.7 FT 14.9 FT
10.0FT	56.8 FC	22.6 FT 18.0 FT

■ Vert. Spread: 96.9°
■ Horiz. Spread: 83.9°

COLOR TEMPERATURE GUIDE

				
2700K	3000K	3500K	4000K	5000K
WARM WHITE	SOFT WHITE GLOW	NEUTRAL GLOW	COOL WHITE GLOW	DAYLIGHT GLOW
friendly personal intimate	soft warm pleasing	sociable inviting non-threatening	neat clean efficient	bright cool alert
HOMES LIBRARIES RESTAURANTS	HOMES HOTEL ROOMS LOBBIES RETAIL STORES	EXECUTIVE OFFICES RECEPTION AREAS SUPERMARKETS	OFFICES CLASSROOMS MASS MERCHANDISERS SHOWROOMS	GRAPHICS INDUSTRY HOSPITALS GALLERIES BEAUTY SALONS
✓	✓	✓	✓	✓



		Milford Youth Center	Pre-Bid RFI Log	
		Media Room Project	Date Printed: 2/21/23	
Date of RFI	RFI #	Questions:	Response:	Response Date
2/16/2023	1	The bid documents state that you require a 10% bid bond. State projects that we bid on usually require only a 5% bid bond. Could you please confirm that you are requiring a 10% bid bond?	A 5% Bid Bond will be required for this project, NOT 10%. Therefore, a 5% Bid Bond should be budgeted and carried for this project.	2/17/2023