

DĀLUME[®]

Dynamic Architectural Lumination

Color Rendering Index (CRI)

A measure of the degree of color shift objects undergo when illuminated by the light source as compared with those same objects when illuminated by a reference source of comparable color temperature.

Color temperature

The description used to describe the effect of heat on an object until it glows incandescently, the emitted radiation of color changes proportional to the temperature.

Cool White

A description of light with a correlated color temperature between 4000K and 4500K, usually associated with a range of correlated color temperatures.

Temperature

The description used to describe the effect of heat on an object until it glows incandescently, the emitted radiation of color changes proportional to the temperature.

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Temperature

The description used to describe the effect of heat on an object until it glows incandescently, the emitted radiation of color changes proportional to the temperature.

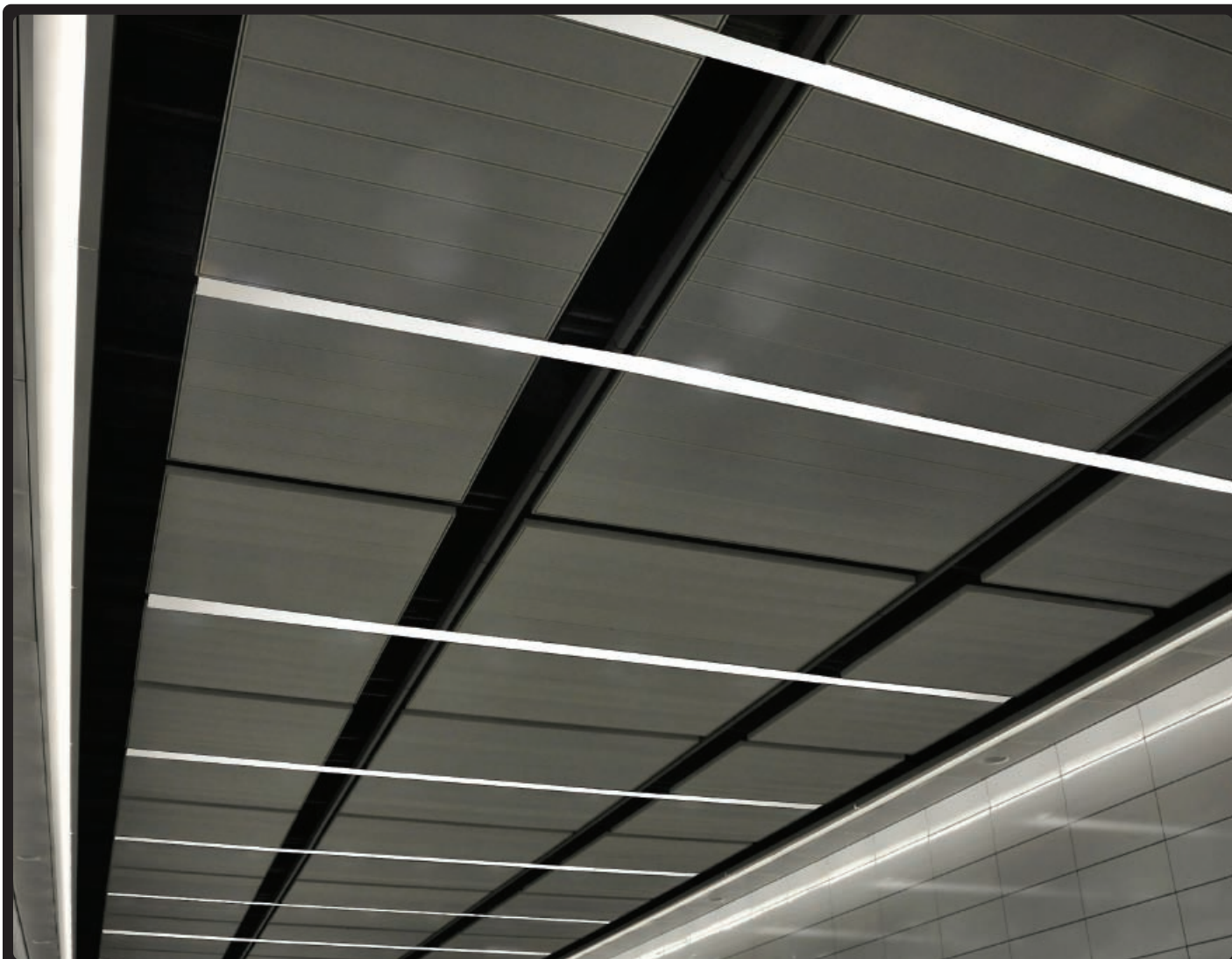
Light Emitting Diode (LED)

A Light Emitting Diode (LED) is a solid-state semiconductor device that converts electrical energy directly into light. When a voltage is applied and current begins to flow, the electrons move across the n region into the p region. The process of an electron moving through the p-n junction releases energy. The dispersion of this energy produces photons with visible wavelengths.

Continuum[®]
ADVANCED LED TECHNOLOGY

► ADVANCED LED TECHNOLOGY

A continuous sequence which no portion is distinguishable from its adjacent parts. This is the true definition for Dalume's **Continuum lighting system** designed to provide unparalleled performance in a slim architectural lighting solution. Perfect for high-end retail, hospitality or residential applications that demand energy efficiency, minimum ceiling clutter, low maintenance, and a new fresh design.



Ordering

Example : **DC217-40K-0-CC-DCG-EM**

CHANNEL	WATT/FT.	COLOR TEMP.	TRIM OPTIONS	FINISH	POWER SOURCE	DRIVER
DC1 : 1 Ft.	08 : 8 Watt 17 : 17 Watt*	-30K : Warm White	-0 : Open	Blank : None	-DCC : Pull-down Gear Box	Blank : 120V
DC2 : 2 Ft.		-40K : Neutral White	-1 : Louver	-CC : Custom-	-DCG : Integral Gear Box	-27 : 277V
DC4 : 4 Ft.		-50K : Cool White	-2 : Lens	Color	-DCR : Remote Gear Box	-D : Dimmable
DC5 : 5 Ft.			-3 : 30° Wallwash			-EM : Emergency
DC6 : 6 Ft.						Back-Up
DC8 : 8 Ft.						
DC10 : 10 Ft.						

* 17W LED Modules run 5' max per power source

Note: Total luminaire wattage load is determined by the driver and number of modules used, please contact factory for additional details.

THE NEW GENERATION OF LED LIGHTING IS BRIGHTER THAN EVER!

Continuum will deliver light output equivalent to conventional fluorescent lamps but deliver a crisp light. And with a 60,000 hour service life, you expect over 10 years of maintenance free operation.

CREE 



**THE
TECHNOLOGY
IS PURELY
INCREDIBLE!**

► Features

- Boards using premium binned CREE LEDs allow for exceptional reliability, performance and color consistency.
- True Efficiency – 8 watts produce up to 375 lumens per foot based on typical layout. High 88 CRI (Color Rendering Index) Ideal for tasks requiring accurate color presentation.
- Remarkable energy savings 1.3W LEDs produce light output equivalent to 10W Xenon, while reducing energy required by over 87%.
- True Color/Lumen consistency: At 60,000 hours they maintain 70% of initial lumens.
- No forward projected heat pollution allows for cool operation.
- No UVs emitted. Will not fade objects sensitive to ultraviolet radiation
- Instant full lumen output and no flickering lamps when compared to Fluorescent lamps.
- Warm White, Neutral White or Cool White color temperatures, offering choices for commercial and retail applications.
- Dimming options available.

► MAINTENANCE & HIGH ENERGY COSTS ... ARE NO LONGER AN ISSUE.



Continuum is proudly made in the USA

Qualifying for "Buy America" provisions under the 1933 Buy American Act and the 2009 American Recovery and Reinvestment Act (ARRA).

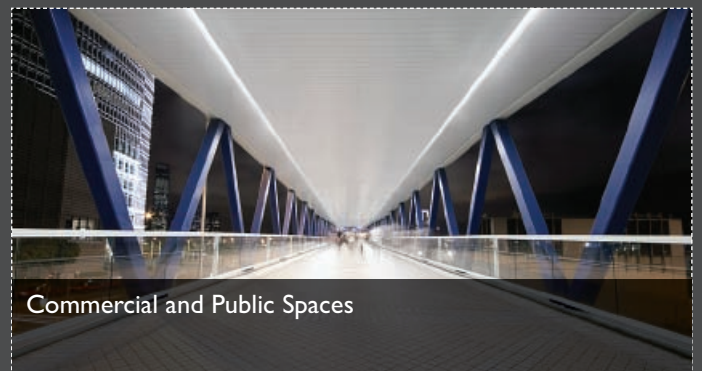
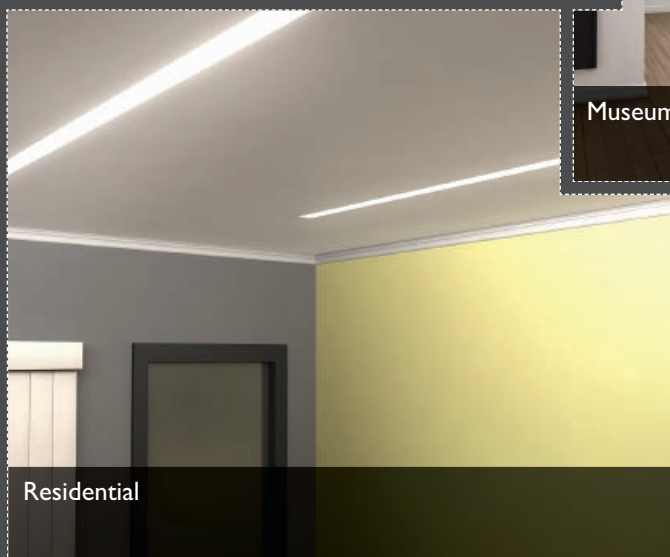
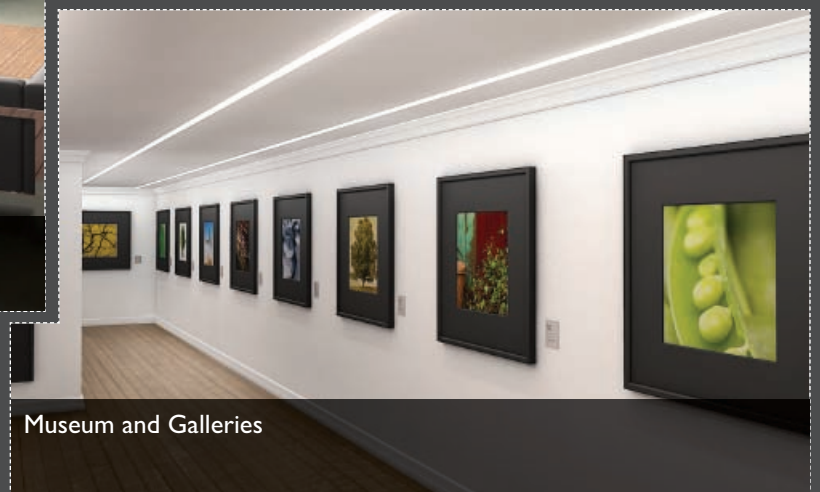
Continuum is American engineered and manufactured with focus on quality and sustainability at its core, utilizing premium binned LED's, heavy-duty T6 aluminum casing, precision optics and wide selection of options and accessories.

Featuring edges that are free of striations, which create a clean and smooth ceiling to luminaire transition.

► PRACTICAL APPLICATIONS

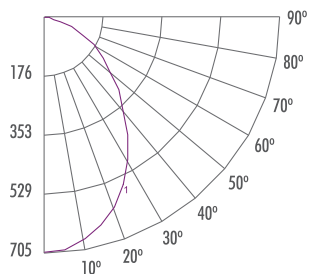
Continuum is the smart solution for lobbies, hallways, general areas, executive offices, public spaces or high-end residential. Ideal for installations in insulated drywall or T-bar applications whether secured horizontally in ceilings or vertically in walls & facades.

Engineered to a miniature fixture height of 3 $\frac{5}{8}$ " with use of remote gear box, making it the true champion for short and restricted plenum spaces.



► OUTPUT PERFORMANCE PHOTOMETRY

OPEN TRIM



OUTPUT PERFORMANCE

DC217-30K-0.IES
2' Channel, 17W Module, 3000K Open Trim
Color Temp: (+/- 100K): 3000K & 4000K
Delivered Lumens: 1298lm
IESNA: LM-63-2002
CRI: 88+
Power Factor 0.99
Lumen Maintenance (L70): 60,000 hours

PROFILE PHOTO



COEFFICIENTS OF UTILIZATION

RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	86	86	86
2	101	94	88	83	99	92	87	82	89	84	80	85	81	78	82	79	76	74	74	74	74
3	93	84	77	71	91	82	76	70	79	74	69	77	72	68	74	70	67	64	64	64	64
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57	57	57	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50	50	50	50
6	74	62	54	48	73	61	53	48	59	53	47	58	52	47	56	51	47	45	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40	40
8	65	52	45	39	64	52	44	39	50	44	39	49	43	39	48	43	38	37	37	37	37
9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33	33
10	58	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31

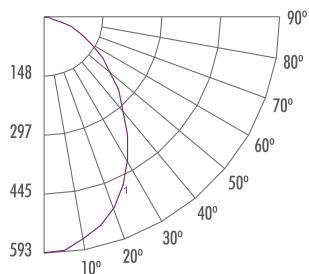
OPEN TRIM

DELIVERED LUMENS PER FOOT:
8W Module: 345lm
17W Module: 650lm

NOTE:

System wattage may vary based on run length and selected driver.

LENSED TRIM



OUTPUT PERFORMANCE

DC217-30K-2.IES
2' Channel, 17W Module, 3000K with Frosted Lens
Color Temp: (+/- 100K): 3000K & 4000K
Delivered Lumens: 1090lm
IESNA: LM-63-2002
CRI: 88+
Power Factor 0.99
Lumen Maintenance (L70): 60,000 hours

PROFILE PHOTO



COEFFICIENTS OF UTILIZATION

RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	86	86	86
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4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	63	59	57	57	57	57
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9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33	33
10	58	45	38	33	56	45	38	33	44	37	33	43	37	32	42	36	32	31	31	31	31

LENSED TRIM

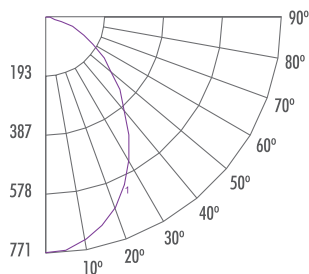
DELIVERED LUMENS PER FOOT:
8W Module: 290lm
17W Module: 550lm

NOTE:

System wattage may vary based on run length and selected driver.

► OUTPUT PERFORMANCE PHOTOMETRY

LOUVER TRIM



OUTPUT PERFORMANCE

DC217-30K-3.IES
2' Channel, 17W Module, 3000K with Louver
Color Temp: (+/- 100K): 3000K & 4000K
Delivered Lumens: 1420lm
IESNA: LM-63-2002
CRI: 88+
Power Factor 0.99
Lumen Maintenance (L70): 60,000 hours

PROFILE PHOTO



COEFFICIENTS OF UTILIZATION

RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	86	86	86
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74	74	74	74
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4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	59	57	57	57	57
5	80	68	60	54	78	67	59	54	65	58	53	63	57	53	61	56	52	50	50	50	50
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9	61	49	41	36	60	48	41	36	47	40	35	46	40	35	45	39	35	33	33	33	33
10	57	45	38	33	56	45	37	33	44	37	33	43	37	32	42	36	32	31	31	31	31

LOUVER TRIM

DELIVERED LUMENS PER FOOT:

8W Module: 345lm

17W Module: 710lm

NOTE:

System wattage may vary based on run length and selected driver.

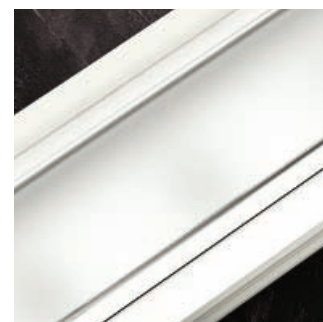
WALL WASH TRIM

DC217-30K-3.IES
2' Channel, 17W Module,
3000K with Wall Wash Lens
IESNA: LM-63-2002

OUTPUT PERFORMANCE

Color Temp: (+/- 100K): 3000K & 4000K
Delivered Lumens: 1145lm
CRI: 88+
Power Factor 0.99
Lumen Maintenance (L70): 60,000 hours

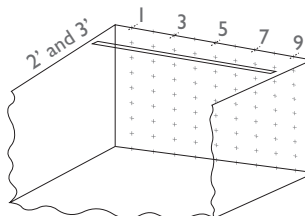
PROFILE PHOTO



MOUNTING HEIGHT	Initial Lumen Output (2 Feet from wall)					
	CALCULATION POINTS					
	1'	3'	5'	7'	9'	
8 Ft.	40.2	47.2	48.3	47.2	40.2	Avg: 39.5 Fc
6 Ft.	51.0	63.7	65.1	63.7	51.0	Max: 65.1 Fc
4 Ft.	29.8	34.6	36.1	34.6	29.8	Min: 20.4 Fc
2 Ft.	20.4	21.7	23.0	21.7	20.4	Avg/Min: 1.9:1

MOUNTING HEIGHT	Initial Lumen Output (3 Feet from wall)					
	CALCULATION POINTS					
	1'	3'	5'	7'	9'	
8 Ft.	22.9	26.0	26.7	26.0	22.9	Avg: 30.4 Fc
6 Ft.	30.2	36.5	38.1	36.5	30.2	Max: 41.4 Fc
4 Ft.	32.7	39.2	41.4	39.2	32.7	Min: 22.9 Fc
2 Ft.	23.3	26.2	27.9	26.2	23.3	Avg/Min: 1.3:1

Vertical luminance is calculated with fixture mounted 2' and 3' from wall. Calculation was based on a 10' wide wall, with light fixture run the full length of the wall. Light Fixture mounting height is 9'.



Room reflectance: 80-50-20%.
Light Loss Factor: .95.
IES files available via www.dalume.com.

WALL WASH TRIM

DELIVERED LUMENS PER FOOT:

8W Module: 305lm

17W Module: 575lm

NOTE:

System wattage may vary based on run length and selected driver.

► T-BAR CEILING APPLICATION



T-bar Ceiling Application

30° Wall Wash Lens

Ideal for lighting walls or any type of perimeter.

High gloss white secondary
Thermo-Plastic Reflectors
direct beam for maximum
light output

Quality binned solid state
LED Board

circuitry designed to extend to desired
lengths of 1' increments. Equipped with twist
lock screws making board installation and
replacement a breeze.

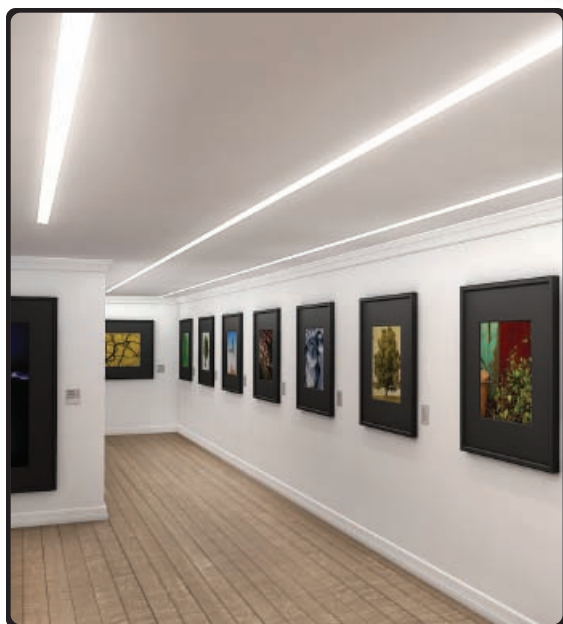
Primary focal optics embedded on individual LEDs
for optimized performance.

► DRY WALL APPLICATION



High performance
Frosted Acrylic Lens
designed to extend a soft glow effect.
Ideal for general light distribution.

**DCA500
Channel Connector**
enables parallel and perpendicular
connections.



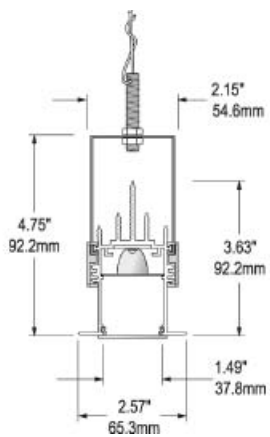
Dry-wall ceiling application

White linear
Thermo-Plastic Louvers
prevent sight of light source
with 70° light cutoff at both latitudes
in addition providing a seamless
appearance when connected to
another luminaire.

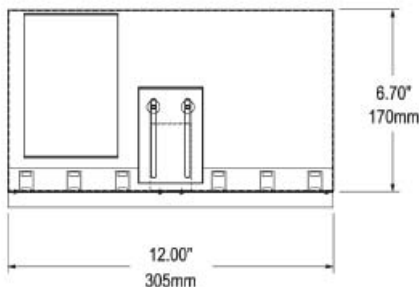
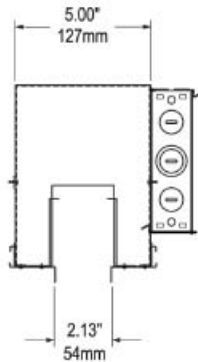
► MINIMIZE ENERGY COSTS MAXIMIZE LIGHT COMFORT

Designed for high performance perimeter and general lighting, the Continuum luminaire is practical for applications such as retail, hospitality, healthcare, offices, galleries and modern residences. Capable of delivering up to 710 lumens per foot, the Continuum is available in 3 different color temperatures; 3000K, 4000K and 5000K, color consistency is assured via premium ANSI binning from luminaire to luminaire.

Channel & Fittings Profile



DCC Housing for Sheetrock Installations



Features:

- Made in USA.
- Performance engineered solid state lighting
- Heavy-gauge T6 (recycled) aluminum extrusion casing
- Secured vertically in walls and facades or horizontally in ceilings
- Compatible with T-bar or in drywall ceilings
- Uninterrupted continuous light
- Optimal glare controlling accessories
- Optional gear box for service from below

Advanced LED Technology

- LM80 Certified /ANSI binned LEDs
- Color Rendering Index (CRI) of 88
- No flickering / Instant full light output
- Uniform illumination
- 3000K, 4000K and 5000K color temperature options
- Dimming and emergency options
- RoHS compliant and Pb free
- 60,000 hrs. LED lifetime with 40° C ambient temperature

Electrical System (Electronic Gear Box)*

- 120V or 277V input 50/60 Hz
- 24W, 60W, 96W or 4x60W power supply
- Class 2 rated
- 10% < Dimming
- THD<20% / 96 –99% power factor
- Short circuit protected with auto recovery and
- Over temperature protection (110° C)
- 50,000hrs lifetime with 60° C case temp.
- Convection cooling

* See driver data sheet for details.

Lighting Optics

- Primary focal optics embedded on individual LEDs
- Proprietary high-gloss secondary reflectors direct beam efficacy
- Thermo-plastic white louvers for optimal glare control (optional)
- High Performance frosted lens neutralizes multi-shadow effect (optional)
- Proprietary wall-wash lens deflect light 30 degrees. (optional)

Warranty:

5-Year Warranty

Label:

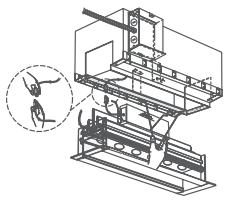
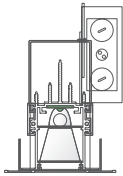
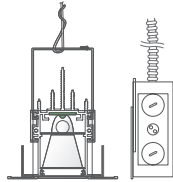
ETL Listed to UL Standards for dry locations.

► ORDERING

ORDERING



Available with 3 Power Source options to solve any lighting requirements !

DCC Pull-Down Gear box  Installation: Service from below	DCG Integral Gear Box  Installation: Service from above	DCR Remote Gear Box  Installation: Service from remote location
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Ordering

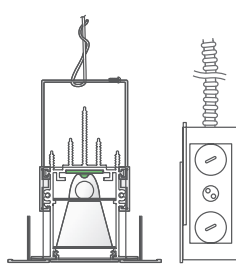
Example : **DC217-40K-0-CC-DCG-EM**

CHANNEL	WATT/FT.	COLOR TEMP.	TRIM OPTIONS	FINISH	POWER SOURCE	DRIVER
DC1 : 1 Ft. DC2 : 2 Ft. DC4 : 4 Ft. DC5 : 5 Ft. DC6 : 6 Ft. DC8 : 8 Ft. DC10 : 10 Ft.	08 : 8 Watt 17 : 17 Watt*	-30K : Warm White -40K : Neutral White -50K : Cool White	-0 : Open -1 : Louver -2 : Lens -3 : 30° Wallwash	Blank : None -CC : Custom-Color	-DCC : Pull-down Gear Box -DCG : Integral Gear Box -DCR : Remote Gear Box	Blank : 120V -27 : 277V -D : Dimmable -EM : Emergency Back-Up

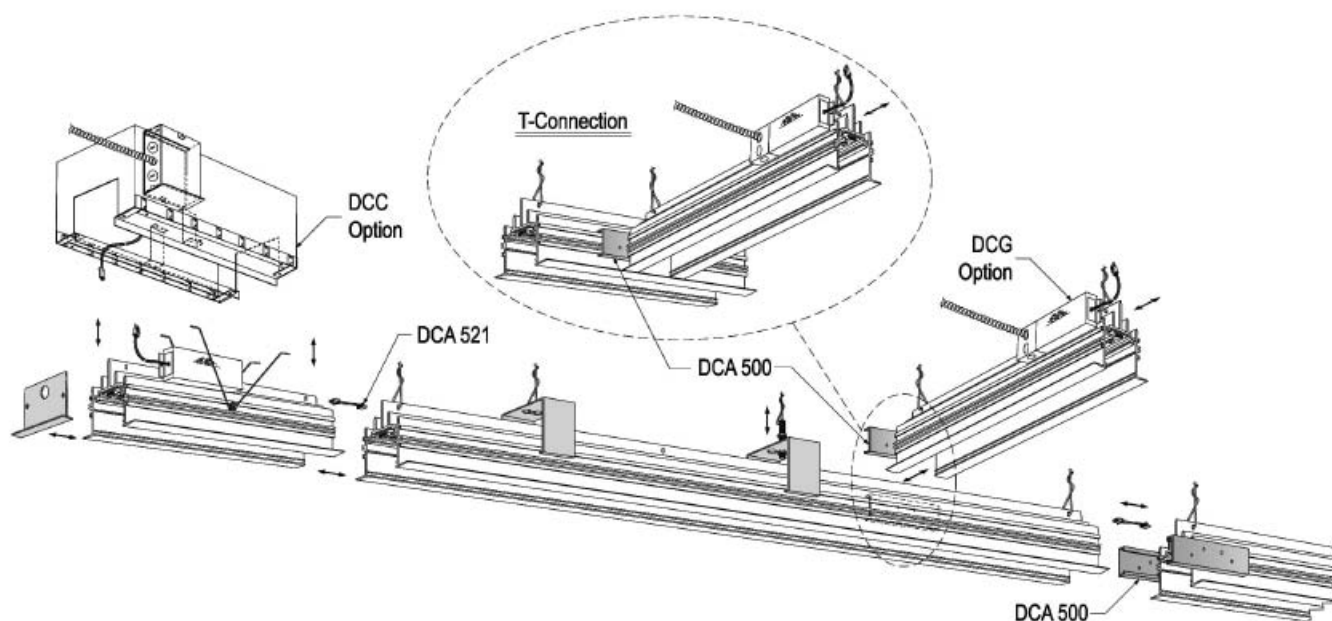
* 17W LED Modules run 5' max per power source

Note: Total luminaire wattage load is determined by the driver and number of modules used, please contact factory for additional details.

► CONTINUUM ELECTRONIC DRIVERS

Remote Gear Box		Driver Wattage	Voltage	Option	
	▶	DCR *	24 : 24 Watt	Blank : 120V	-D : Dimmable
		60 : 60 Watt	-27 : 277V	-EM : Emergency Back-Up	
		96 : 96 Watt			
		240 : 4 x 60 Watt			
		Consult factory for details.			

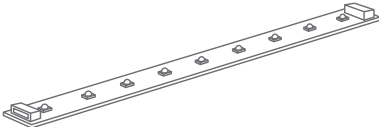
► SAMPLE CONFIGURATION

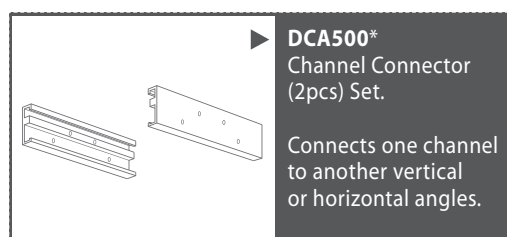


Electrical Run Chart						
Module Wattage	Maximum Run*	Total Wattage	Lumens Delivered (based on trim style)			
			Louver Trim	Open Trim	Wall Wash Trim	Frosted Trim
8 Watt Module	10 Feet	80W	3775 Lm	3455 Lm	3050 Lm	2900 Lm
17 Watt Module	5 Feet	85W	3545 Lm	3245 Lm	2860 Lm	2730 Lm

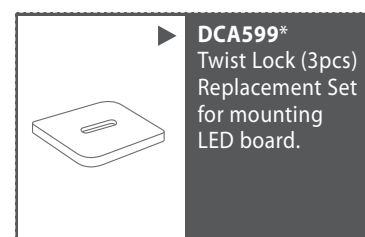
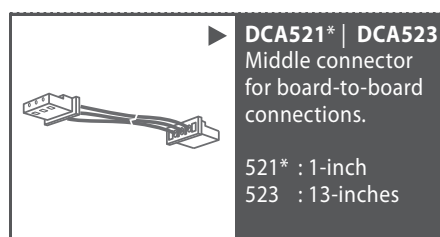
* Notes: "Maximum Run" is per gear box used, additional gear boxes are required for longer runs.
Total luminaire wattage load is determined by the driver and number of modules used, please contact factory for additional details.

► CONTINUUM ACCESSORIES

Replacement LED Module	Catalog #	Wattage	Color Temperature
 Detail specs available on dalume.com	DCB *	08 : 8 Watt 17 : 17 Watt	-30K : Warm White -40K : Neutral White -50K : Cool White



*) Replacement part when ordering channels

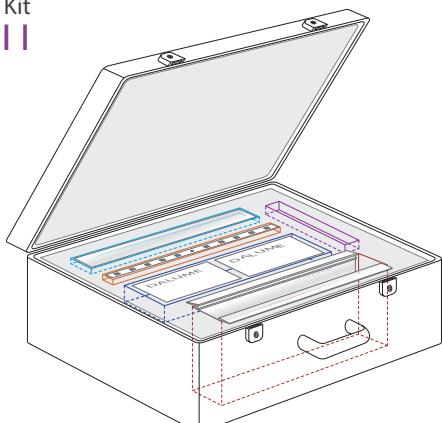


► ENGINEERED FOR SPECIFICATION

We understand that accuracy and reliability are essential in today's marketplace. With our quality engineered linear LED lighting system, you can experience high performance, reliability and new lighting schemes perfect for your next project.

Continuum is designed to provide unparalleled performance in a slim architectural lighting solution. Perfect for high-end retail, hospitality or residential applications that demand energy efficiency, minimum ceiling clutter, low maintenance, and a new fresh design.

Sample Kit
DC411



Case Contents:

- (1) DCI08-30K-I: 1 Foot Channel
- (1) Frosted Lens
- (1) Wall Wash Lens
- (1) Snap-in Louver
- (1) 8W 3000K Replacement LED Module
- (1) 17W 3000K Replacement LED Module
- (1) End Caps and Channel Connectors
- Driver and plug-in Connector

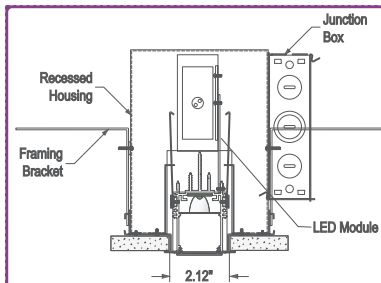
Catalog #
DC411 Full lighting package and modules.

For evaluation use only, not application use. See your local Sales Representative for availability.

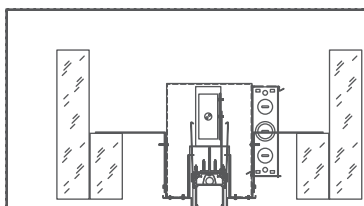
► INSTALLATION INSTRUCTIONS AND REQUIREMENTS

▼ Electronic Gear box & LED Module (DCC option) ▼

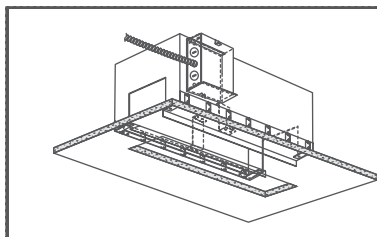
Service from below plenum



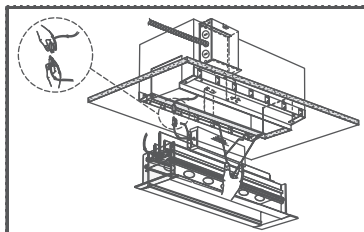
1" Max. ceiling thickness (sheet rock)
Ceiling cut-out: 2.12" x nominal length



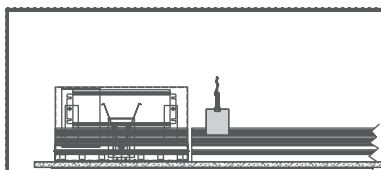
1. Install recessed housing (DCH300) into ceiling frame of 2x4 joists with 12.25" spacing



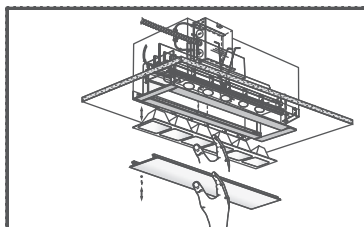
2. Cut out ceiling at desired location of 2.12" x the nominal length of channel



3. Connect LED module with quick connectors (provided) and squeeze V-springs while aiming and attaching into the housing hooks



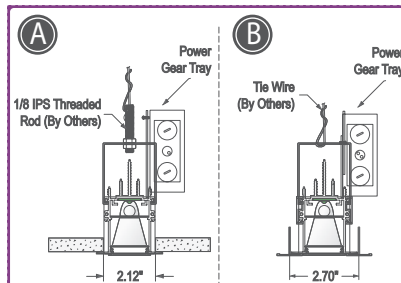
4. Secure remaining Continuum channels per electrical load(s) with threaded rod or tie-wire (not provided) to structure



5. Install applicable accessory by snapping or sliding into channel groove

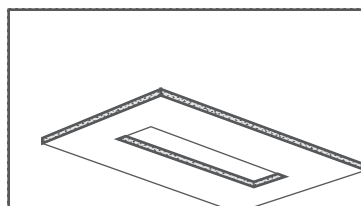
▼ Integral Electronic Gear Box (DCG option) ▼

Service requires access above plenum

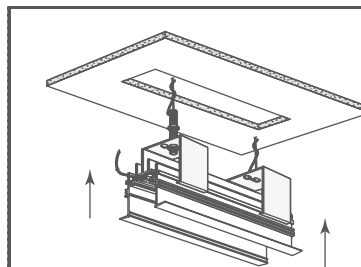


A. 1" Max. ceiling thickness (sheet rock)
Ceiling cut-out: 2.12" x nominal length

B. 5/8" to 15/16" Exposed T-bar grid
2.70" Wall-to-wall clearance

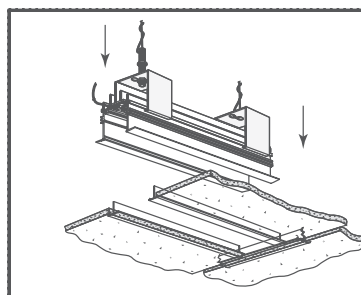


1. Cut out ceiling at desired location of 2.12" x the nominal length of channel



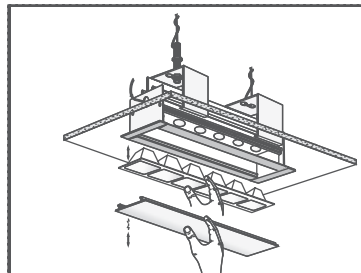
2a. Insert channel with integral Gear Box and support channel using threaded rod or tie-wire (not provided).

When ready, connect Gear Box to a power supply



2b. Install T-bar grid with 2.70" wall-to-wall clearance and place channel onto flat T-bar(s).

Support the channels using threaded rod or tie-wire (not provided) to structure



3. Install applicable accessory by snapping or sliding into channel groove

* Consult factory for remote LED driver and trimless installations

► WARRANTY DETAILS

Dalume is so confident in the quality and assembly of the Continuum Lighting System, we back them with a 5-year limited warranty. This warranty represents our promise to you that our product will be free from defect in material and workmanship for a period of five years from date of manufacture.

The warranty is based upon proper installation, use and maintenance of the product; normal wear and tear on the fixture is not covered. The limited warranty is extended only to the original or first end-user purchaser at the original installed location. In the unlikely event that any defects are found, Dalume will either repair or replace the defective part or parts or else replace it with a unit of equal or better performance. There are also provisions for limited labor reimbursement under certain conditions. Read the full warranty.

Warranty Requests

For a warranty claim request, please contact our Customer Service Department at 323-904-0200

► Glossary

Bin (Binning)

The systematic dividing of distribution of performance parameters (Flux, Wavelength or CCT).

Color Rendering Index (CRI)

A measure of the degree of color shift objects undergo when illuminated by the light source as compared with those same objects when illuminated by a reference source of comparable color temperature.

Color temperature

The description used to describe the effect of heating an object until it glows incandescently, the emitted radiation, and apparent color; changes proportional to the temperature.

Cool White

A description of light with a correlated color temperature between 4000K and 4500K, usually perceived a slightly blue. A description of a range of correlated color temperatures.

Correlated Color Temperature (CCT)

The absolute temperature of a blackbody whose chromaticity most nearly resembles that of the light source. Usually specified in Kelvin (K). The lower the Kelvin temperature, the warmer the light feels, or appears.

Driver

Electronics used to power illumination sources.

Efficacy

The light output of a light source divided by the total electrical power input to that source, expressed in lumens per watt (lm/W).

Flux / Luminous Flux

Luminous flux is the measure of the perceived power of light, adjusted to reflect the varying sensitivity of the human eye to different wavelengths of light

Goniophotometer

A photometric device for testing the luminous intensity distribution, efficiency, and luminous flux of luminaires.

Heat Sink

A part of the thermal system that conducts or convects heat away from sensitive components, such as LEDs and electronics.

Inboard Power Integration

An approach to power management that integrates the power supply directly into a fixture's circuitry, creating an efficient power stage that consolidates line voltage conversion and LED current regulation.

Kelvin Temperature

The symbol (K) used to indicate the color appearance of a light source when compared to a theoretical blackbody. Yellowish incandescent lamps are 3000K. Fluorescent light sources range from 3000K to 7500K and higher.

LED Board

An assembly of LED packages or dies on a printed circuit board or substrate, possibly with optical elements and additional thermal, mechanical, and electrical interfaces that are intended to connect to the load side of an LED driver.

LED Driver

An electronic circuit that converts input power into a current source. An LED driver protects LEDs from normal voltage fluctuations, over-voltages, and voltage spikes.

Light Emitting Diode (LED)

A Light Emitting Diode (LED) is a solid-state semiconductor device that converts electrical energy directly into light. When voltage is applied and current begins to flow, the electrons move across the n region into the p region. The process of an electron moving through the p-n junction releases energy. The dispersion of this energy produces photons with visible wavelengths.

Lumen (lm)

The international (SI) unit of luminous flux or quantity of light and equals the amount of light that is spread over a square foot of surface by one candle power when all parts of the surface are exactly one foot from the light source. For example, a dinner candle provides about 12 lumens

Luminous Efficiency

The percentage of total lamp lumens that a lighting fixture, luminaire, or system emits, minus any blocked or wasted light.

Onboard Power Integration

An approach to power management that integrates the power supply into a fixture's housing, eliminating the need for an external power supply.

Solid-state lighting

A description of the devices that do not contain moving parts or parts that can break, rupture, shatter, leak or contaminate the environment.

Warm White

A description of light with a correlated color temperature between 3000K and 3500K, usually perceived a slightly yellow.

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