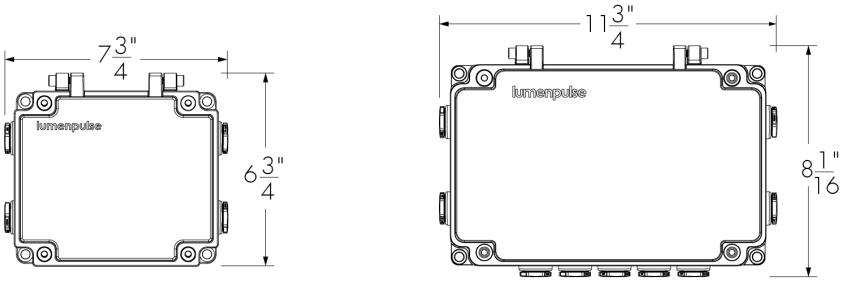


Project Name

Qty

Type

Catalog / Part Number



Daisy chain configuration, 100-277V

Daisy chain configuration, 347V
Star configuration, 100-347V

Control

Description

DMX/RDM
DALI
T8

Lumenpulse has revamped the Control Box (CBX) with a new, simpler offering adapted to indoor and outdoor use. Along with many mechanical advantages, the CBX has been re-designed to be as user-friendly as possible for control system installers and technicians. The CBX combines line voltage and DMX/RDM or DALI 2 T8 control signals into a single cable with power and DMX/RDM control to the fixtures. Internally, the CBX boosts and splits the control signal into a maximum of six outputs for scalable network topologies. The CBX can be used to enable control for white, dynamic white, or colour-changing luminaires from families such as Lumenbeam, Lumencove, and Lumenfacade. New families, such as Lumenquad, which uses a 6-conductor cable construction, are fully supported by the revamped CBX. New 6-conductor luminaires, in conjunction with a 6-conductor, configured CBX, will improve data reliability, reduce noise susceptibility, and enable longer runs.

Required Components (By Others)

- Cables
- Listed watertight strain relief connectors
- Sealing compound

Finish

Black

Sandtex®

Bronze

Sandtex®

Silver

Sandtex®

Smooth

White

Textured

Black

Textured

Bronze

Textured

Medium

Textured

Green

Textured

White

Custom

Color & Finish

Non-Metallic

Option

CRC

Corrosion-resistant coating for hostile environments

Ratings



Lumencycle™ Program



Features

Configurations	Daisy chain (1 output), Star (up to 6 outputs)
Input Protocols Supported	DMX/RDM, DALI 2 T8 (with RGBWAF and Tc control)
Output Protocols Supported	DMX/RDM
Test Button	Dynamic show broadcast for testing (DMX configuration only)
Indicator Lights	TX and RX LED lights per port (DMX configuration only)
3G Vibration Rated	Meets 3G ANSI C136.31-2010 vibration standard for bridge applications
Data Termination Switch	Onboard data termination switch (DMX configuration only)
Option	Corrosion-Resistant Coating for Hostile Environments
Warranty	5-year limited warranty

Certifications



Physical

Housing Material	Die cast aluminum
Compartments	Base for connections, Cover for electronics
Cover	Hinged with safety cable
Surface Finish	Electrostatically applied polyester powder coat
Weight	3.75 lbs (small housing) 7.95 lbs (large housing)

Electrical and Control

Input Voltage	100 to 347 volts
Power Input	1/2" provision hole for 1/2" NPT, PG16 or 20mm
Data Input	1/2" provision hole for 1/2" NPT, PG16 or 20mm
Output	Up to 6 outputs, 1/2" provision hole for 1/2" NPT, PG16 or 20mm
Control	DMX/RDM Enabled, DALI 2 T8 Control
Luminaire Interface	5 or 6 conductor compliant

Environmental

Storage Temperature	-40 °F to 185 °F
Start-up Temperature	-13 °F to 122 °F
Operating Temperature	-40 °F to 122 °F
Ingress Protection Rating	IP66
Environment	Suitable for indoor and outdoor applications

Important

Virtual Patent Marking Notice

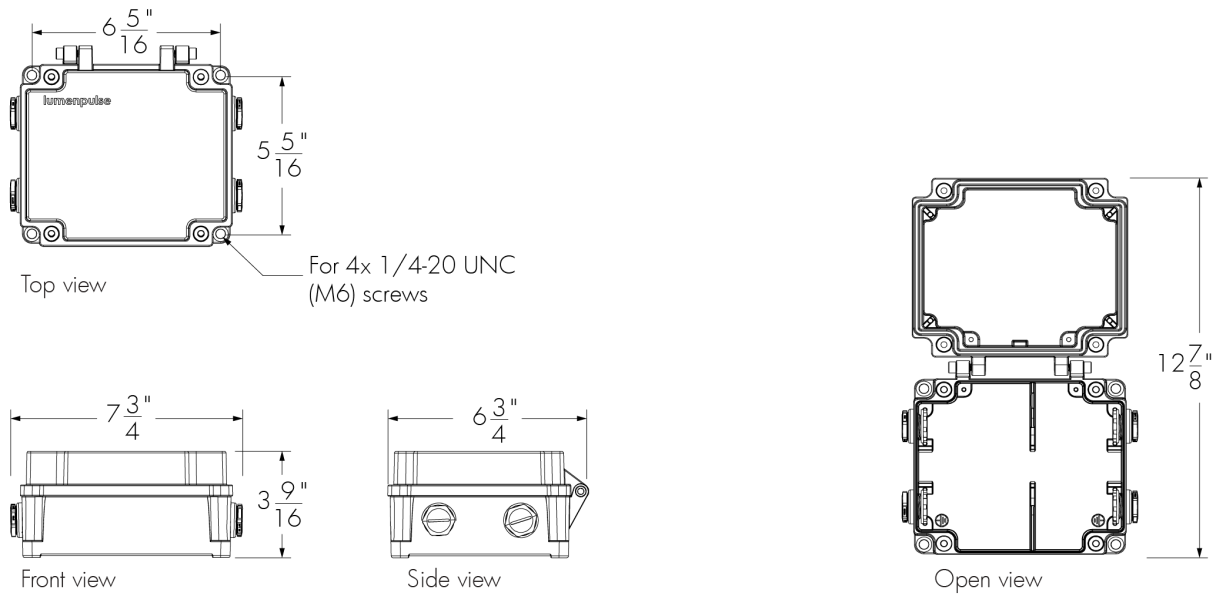
This website (<https://www.lmpg.com/patents-trademarks>) is provided to satisfy the virtual patent marking provisions of applicable jurisdictions. Some products listed may be covered by additional patents not referenced here.

Lumencycle™ Program

Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures, and responsibly manage them at end of life. For full program details, visit <https://www.lumenpulse.com/lumencycle>.

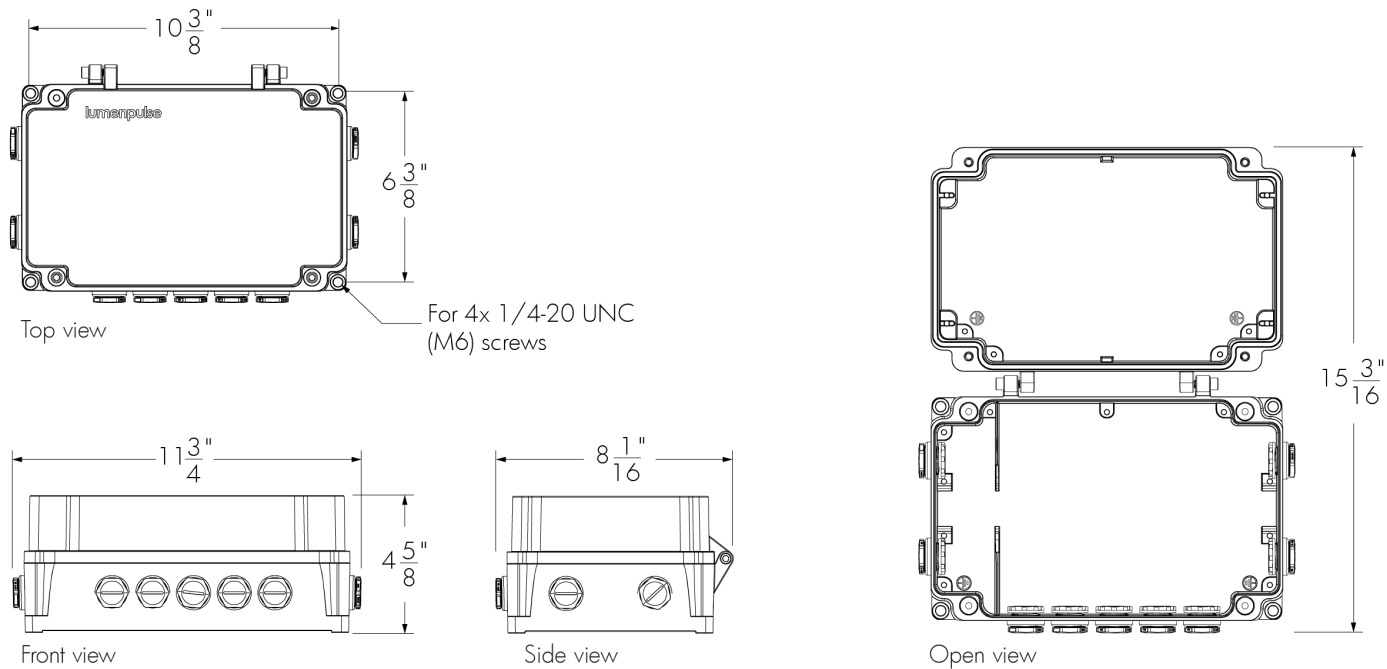
Dimensions

Small Housing



DS - Daisy Chain configuration, 100-277V

Large Housing

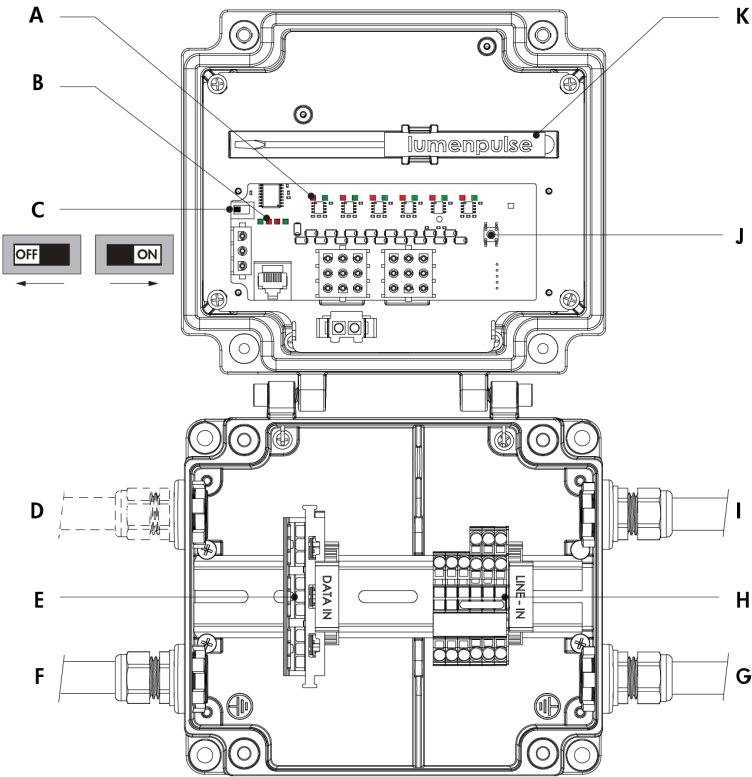


DS - Daisy Chain configuration, 347V

ST - Star configuration, 100-347V

Input And Output Details

CBX-DS, DMX Control, 100-277V Configuration



A - Output Port LED Indicator Lights

Visual check of outgoing DMX control signal.

B - Input Port LED Indicator Lights

Visual check of incoming DMX control signal.

C - Termination Switch

Simple, time-saving switch for terminating the last device in line - no 120-ohm resistor required.

D - Optional Data Output to Next CBX

Not isolated/ not boosted

E - Terminal Blocks (Data Input)

Recommended wire gauge range: 24-16 AWG [0.205-1.307mm²]

F - Data Input

G - Power & Data Output to Fixture, 5 or 6 Conductor Cable

Maximum of 4x cascading control boxes per installation, isolated.

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

H - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.307mm²]

Range: 24-12 AWG [0.205 - 3.301mm²]

I - Power Input (100-277V)

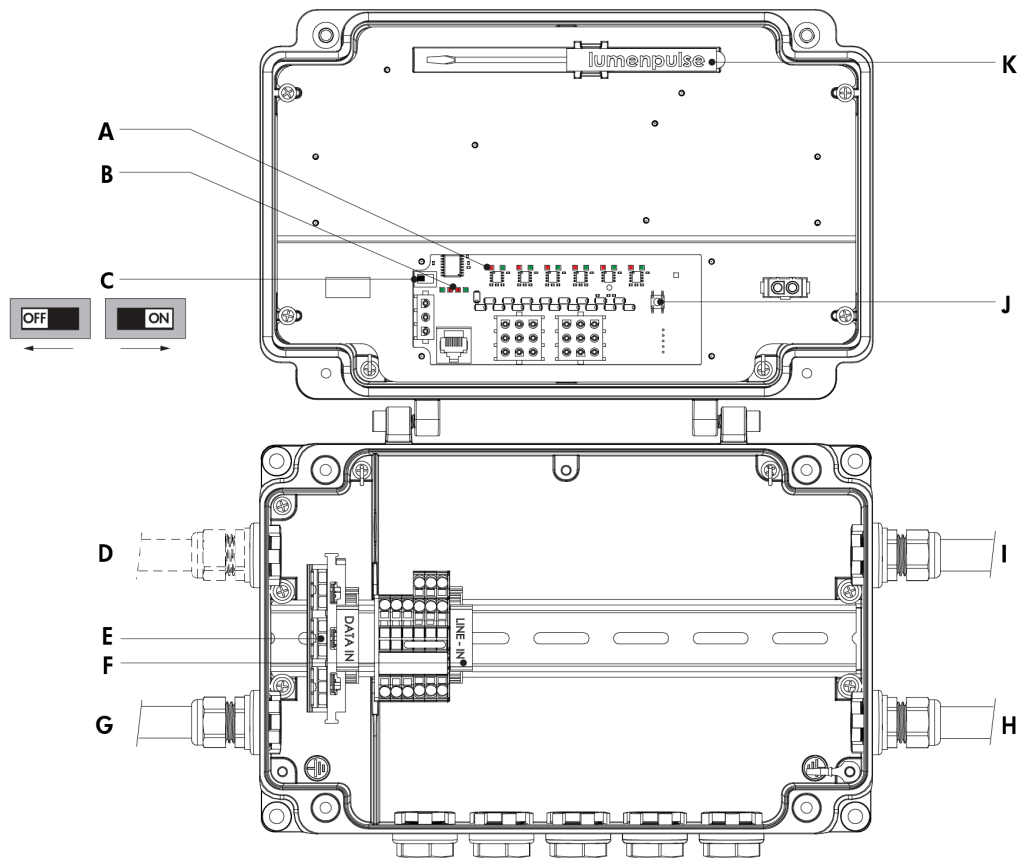
J - Test Button

Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line - with no programmer or console required. Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

K - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

CBX-DS, DMX Control, 347V Configuration



A - Output Port LED Indicator Lights

Visual check of outgoing DMX control signal.

B - Input Port LED Indicator Lights

Visual check of incoming DMX control signal.

C - Termination Switch

Simple, time-saving switch for terminating the last device in line - no 120-ohm resistor required.

D - Optional Data Output to Next CBX

Not isolated/ not boosted

E - Terminal Blocks (Data Input)

Recommended wire gauge range: 24-16 AWG [0.205-1.307mm²]

F - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.307mm²]

Range: 24-12 AWG [0.205-3.301mm²]

G - Data Input

H - Power & Data Output to Fixture, 5 or 6 Conductor Cable

Maximum of 4x cascading control boxes per installation, isolated.

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

I - Power Input (347V)

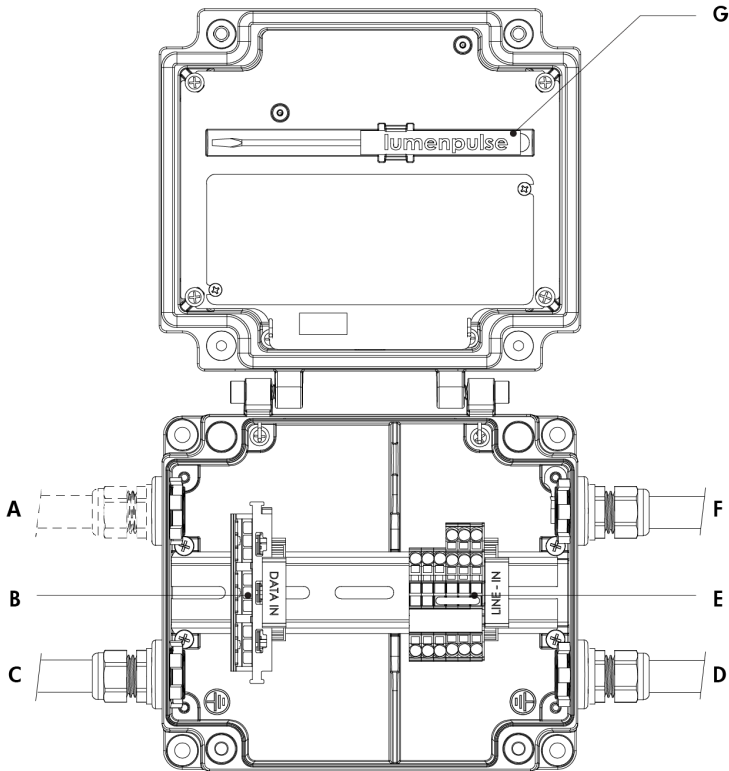
J - Test Button

Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line - with no programmer or console required. Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

K - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

CBX-DS, DALI 2 T8 Control, 100-277V Configuration



A - Optional Data Output to Next CBX (DALI 2 T8 Control Signal)

Not isolated/ not boosted

B - Terminal Blocks (Data Input)

Recommended wire gauge: 2 @ 16AWG wires [1,31mm²]

C - Data Input (DALI 2 T8 Control Signal)

D - Power & Data Output to Fixture, 5 or 6 Conductor Cable (DMX Control Signal)

Maximum of 4x cascading control boxes per installation, isolated.

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

E - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.307mm²]

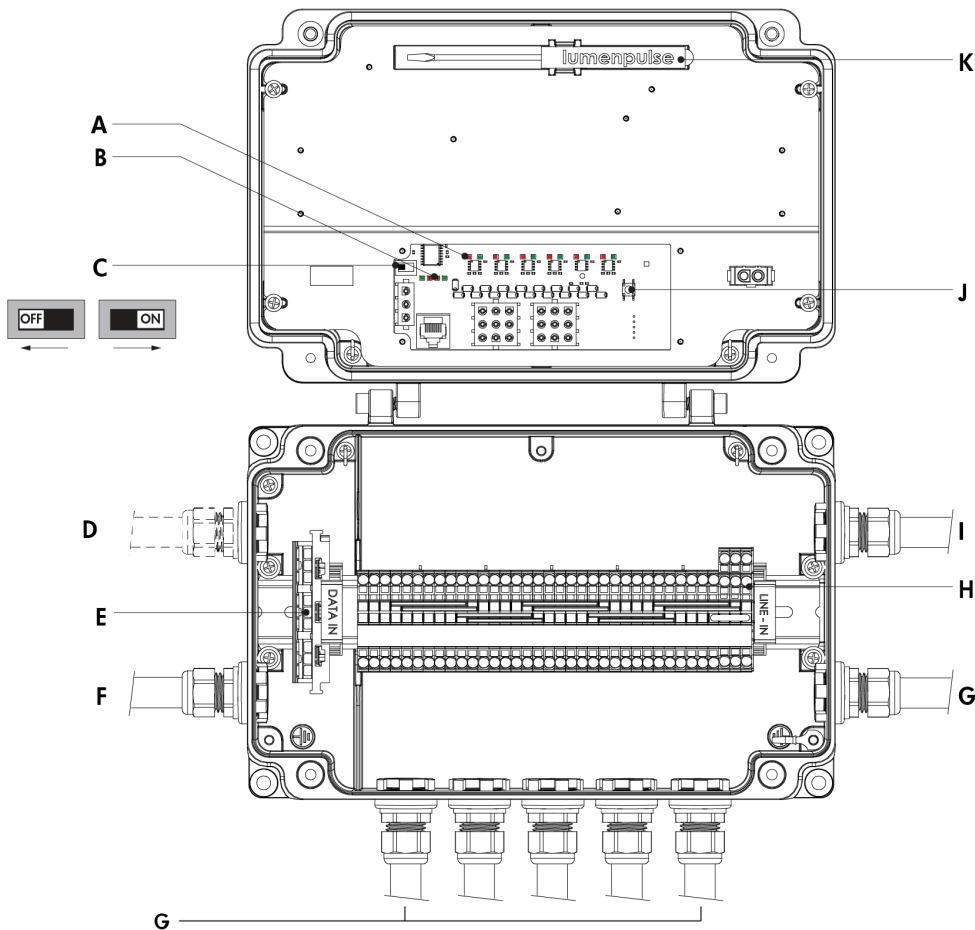
Range: 24-12 AWG [0.205-3.301mm²]

F - Power Input (100-277V)

G - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

CBX-ST, DMX Control, 100-347V Configuration



A - Output Port LED Indicator Lights

Visual check of outgoing DMX control signal.

B - Input Port LED Indicator Lights

Visual check of incoming DMX control signal.

C - Termination Switch

Simple, time-saving switch for terminating the last device in line - no 120-ohm resistor required.

D - Optional Data Output to Next CBX

Not isolated/ not boosted

E - Terminal Blocks (Data Input)

Recommended wire gauge range: 24-16 AWG [0.205-1.307mm²]

F - Data Input

G - Power & Data Output to Fixture, 5 or 6 Conductor Cable

Maximum of 4x cascading control boxes per installation, isolated.

Note: 5 and 6 conductor fixtures cannot be combined in the same CBX.

H - Terminal Blocks (Power/Data Output)

Recommended wire gauge: 16 AWG [1.307mm²]

Range: 24-12 AWG [0.205-3.301mm²]

I - Power Input (100-347V)

J - Test Button

Test fixtures with a simple button press that broadcasts a dynamic show to all of the fixtures on the line - with no programmer or console required. Once all fixtures are confirmed operational, the user can simply press the test button again and the test show will turn off.

K - Tool for Connector Operation

Refer to installation instructions for additional wiring details.

How to Order

Housing	Input Voltage	Control	Finish	Option	Certification
CBX-DS Power and Control box, Daisy Chain Configuration (1 output) CBX-ST Power and Control box, Star Configuration (up to 6 outputs)	100 100 Volts 120 120 volts 208 208 volts 220 220 Volts 240 240 volts 277 277 volts 347 347 Volts ⁽¹⁾	DMX/RDM DMX/RDM Enabled Dimming DALIT8 DALI 2 T8 Control ⁽²⁾ ⁽³⁾ ⁽⁴⁾	BK Black Sandtex® BRZ Bronze Sandtex® SI Silver Sandtex® WH Smooth White BKTX Textured Black BRZTX Textured Bronze Non-Metallic GRATX Textured Medium Gray GRNTX Textured Green WHTX Textured White CC Custom Color & Finish ⁽⁵⁾ ⁽⁶⁾ ⁽⁷⁾	CRC Corrosion-Resistant Coating ⁽⁸⁾ ⁽⁹⁾	UL UL Compliant CE CE Compliant

Notes:

1. Consult fixture specification sheets for 347V availability.

2. Available for CBX-DS configuration only.

3. Not available with 347V.

4. DALI 2 T8 Supports RGBWAF and Tc control signals.

5. Lumenpulse offers a wide selection of RAL CLASSIC (K7) colors with a smooth texture and high-gloss finish. Please consult factory for a list of available K7 colors, other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.
6. Setup charges apply for RAL colors. Consult factory for details.

7. Longer lead times can be expected for custom RAL color finishes.

8. Use only when exposed to salt spray. This option is not required for normal outdoor exposure.

9. Setup charges apply. Consult factory for details.