Specification Sheet

Element
Post Top

WHITE & STATIC COLORS
COLOR CHANGING
DYNAMIC WHITE

Project Name _____ Qty _____

Type _____ Catalog / Part Number _____
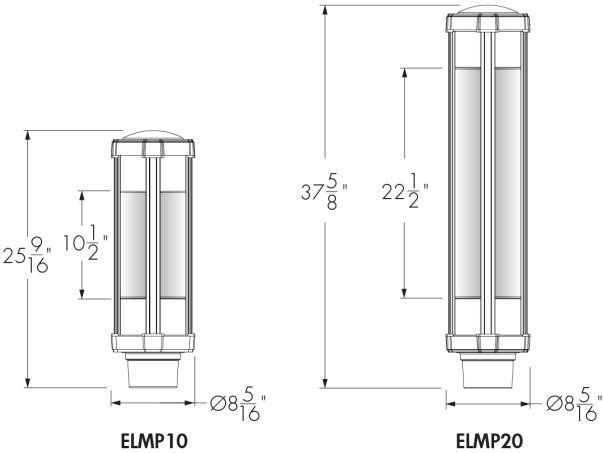
ELMP10   ELMP20   Front view

Photometric Summary

Output	RO - Regular output		HO - High output	
Housing	ELMP10	ELMP20	ELMP10	ELMP20
Delivered lumens (lm)	817	1179	1119	1615

Based on CRI 80, 4000K, On/off control.
Photometric performance is measured in compliance with IESNA LM-79-08.

Housing	ELMP10	ELMP20
Delivered lumens (lm)	358	517

Based on RGBW40K full output, DMX/RDM control.
Photometric performance is measured in compliance with IESNA LM-79-08.

Wattage Summary

White Light	Voltage	RO - Regular output [W]†	HO - High output [W]†
NO/DIM/ DALI	120-277V	24	33
	347V	25	36
	480V	26	36

Color Changing	Voltage	Wattage†
RGBW30K, RGBW40K - DMX/RDM	120-480V	20

Dynamic White	Voltage	Wattage†
DWH - DMX/RDM	120-277V	15
	347-480V	16
DWW- DIM 0-10V	120-277V	13
	347-480V	14
DWW - DMX/RDM	120-277V	15
	347-480V	16
DWW - DMX/RDM1	120-277V	13
	347-480V	14

†Delivered wattage: +/- 10% tolerance.

Description

The Element Post Top is a high-performance LED wall-mounted or pole-top luminaire for decorative lighting, public squares, and access roads. Configurable, the barrel-shaped luminaire provides a choice of outputs and finishes, as well as Legacy or Custom output modes, offering you flexibility with exceptional continuity. The Element Post Top is also available in RGBW, Dynamic Warm, and Dynamic White, allowing you to create a number of effects and looks, including static solid colours, dynamic colour chases, pulses, and even rainbow cascades.

Electrical and Control

Output (Nominal Lumens) Regular output, High output

Voltage 120 Volts, 208 Volts, 240 Volts, 277 Volts, 347 Volts, 480 Volts

Control On/Off Control, 0-10V Dimming, DALI Dimming, DMX/RDM Enabled, Dim to Warm via 0-10V (2700K to 2200K), Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K)
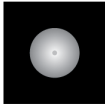
Features

Color and Color Temperature 2200K, 2700K, 3000K, 3500K, 4000K, 5700K, Dynamic Warm White (2200K to 3000K), Dynamic White (2700K to 6500K), RGB + White 3000K, RGB + White 4000K

Distributions Symmetric 120

Option Surge Protector

Mounting Options Top-Mount (4 in Tenon Adapter)

Warranty 5-year limited warranty

Performance

Color Rendering CRI 70+, CRI 80+

Lumen Maintenance L70 120,000hrs (Ta 25 °C [77 °F])

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Distribution

S120

Colors and Color Temperatures

White & Static Colors

2200K 2700K 3000K 3500K 4000K 5700K

Dynamic White

D_{WW} Dynamic warm

D_{WH} Dynamic white

Color Changing

R_{GBW} 30K Red Green Blue White

R_{GBW} 40K Red Green Blue White

Control

ON/OFF 0-10V DALI
DMXrdm DIM/DTW DMX/RDM1

Certifications

c(UL)us

5 YEARS
lumenpulse

Physical

Housing Material	Aluminum
Lens Material	Moulded white and UV stabilized acrylic
Weight	23.5 lbs
EPA	0.96 ft²

Environmental

Environment	Dry/damp/wet location
Operating Temperature	-40 °F to 104 °F

Ratings

LED module	IP66 - Outdoor rated

Accessories (Order Separately)

Control Boxes	CBX-ST-Power and control box - star configuration
Control Systems	Consult control systems section for details, Lumentone™ 2 (LTN2), Pharos® Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID)

Decorative arms (Order Separately, Consult Related Specification Sheets for Details)
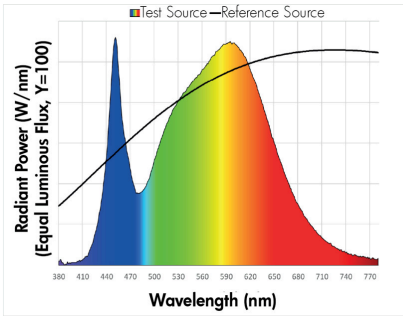
Compatible decorative arms	Post-Top Decorative Arm: TN4-Post-Top (4 in Tenon Adapter) Luminaire Mounting Option with DT1, DT6 and MC1 Arm Style.

Important

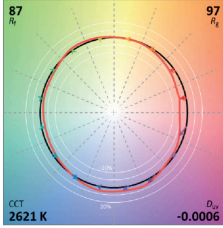**Virtual Patent Marking Notice**

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.
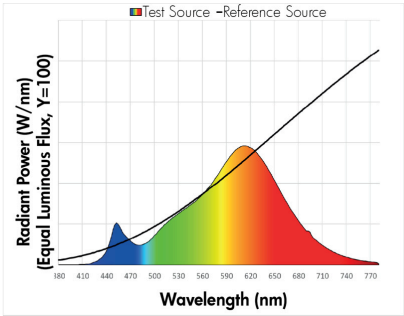
Chromaticity Data

TM-30 - 4000K

CCT	CIE		TM-30	
4000K	R_a	83	85	R_f
	R_9	14	96	R_g

85 R_f 96 R_g

CCT 3994 K D_{uv} 0.0013

Spectral Power Distribution

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TM-30 - DWW

CCT	CIE		TM-30	
DWW	R$_a$	86	87	R$_f$
Full Output	R$_9$	26	97	R$_g$

DWW Spectral Power Distribution

TM-30 - DWH

CCT	CIE		TM-30	
DWH	R$_a$	81	80	R$_f$
Full Output	R$_9$	22	99	R$_g$
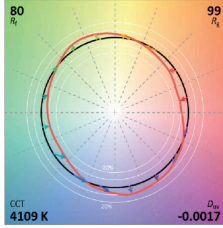
DWH Spectral Power Distribution

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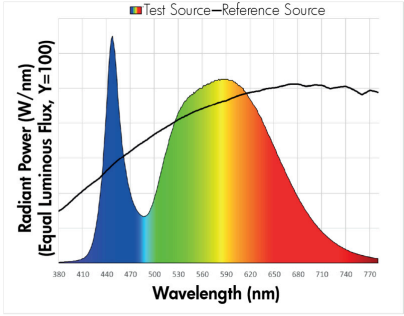
Typical Wiring Diagrams

Wiring Color Code

Color	Black	White	Green	Purple/Red	Gray/Orange
Use	Line	Line/Neutral	Ground	0 -10V+ /Data +	0 -10V - /Data -

On/Off Control (NO)
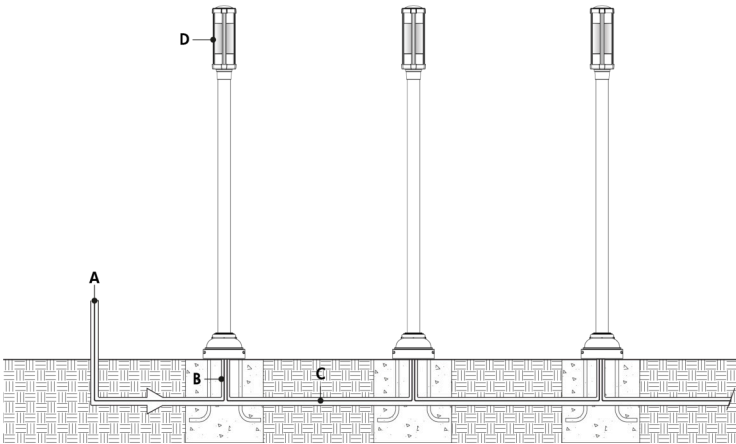
A - Power input (120-480V, wiring by others)
B - Conduit (by others)
C - Power wiring (by others)
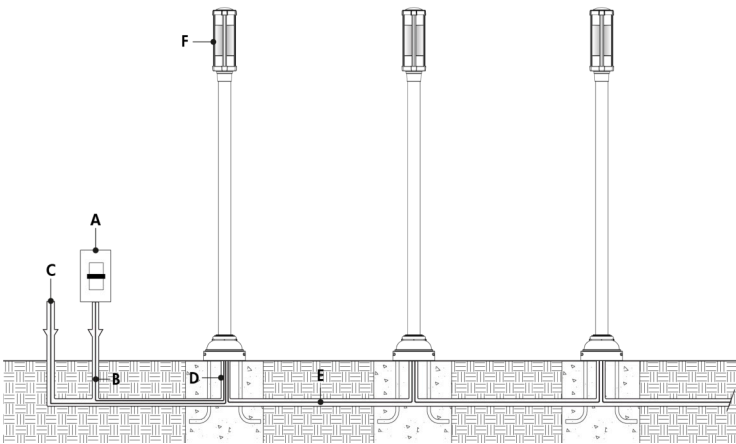**D -** Element Post-top

On/Off Control (NO) - Wiring Detail
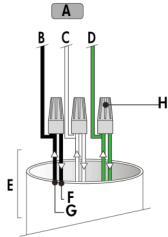
A - To fixture
B - Line
C - Line/Neutral
D - Ground
E - Conduit (by others)
F - To next fixture
G - Power input or from previous fixture
H - Wire-nuts (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
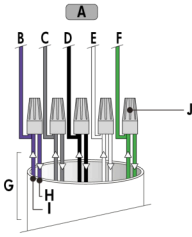
0-10V Dimming (DIM)

A - Dimmer (by others)
B - Data wiring (by others)
C - Power input (120-480V, wiring by others)
D - Conduit (by others)
E - Power and data wiring (by others)
F - Element Post-top

0-10V Dimming (DIM) - Wiring Detail

A - To fixture
B - 0-10V +
C - 0-10V -
D - Line
E - Neutral
F - Ground
G - Conduit (by others)
H - To next fixture
I - Power input or from previous fixture
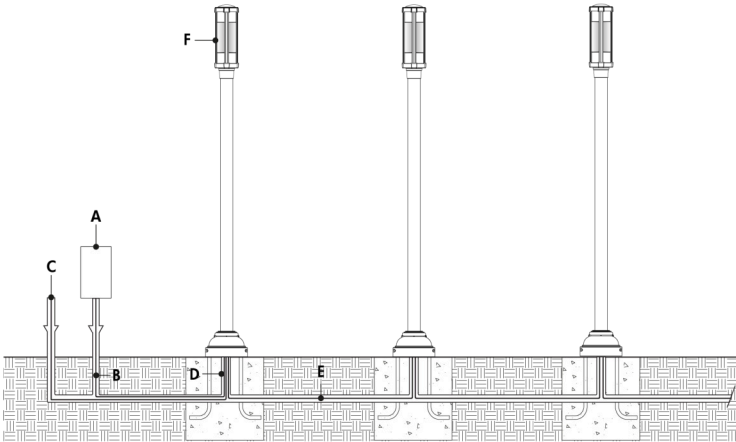**J -** Wire-nuts (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- 0-10V mA ratings: passive dimmer (Current Sink): 3mA per fixture, active dimmer (Current Source): 0.5mA per fixture.
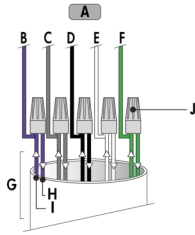- 1% minimum dimming value.

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DALI Control (DALI)

A - DALI controller (by others)
B - Data wiring (by others)
C - Power input (120-480V, wiring by others)
D - Conduit (by others)
E - Power and data wiring (by others)
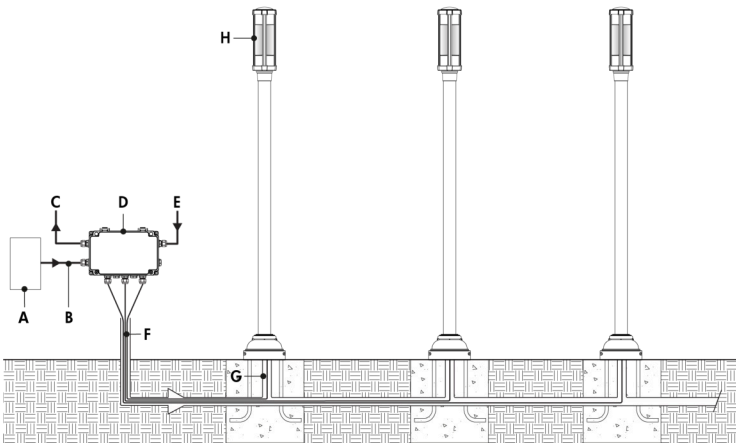**F -** Element Post-top

DALI Dimming (DALI) - Wiring Detail

A - To fixture
B - Data +
C - Data -
D - Line
E - Neutral
F - Ground
G - Conduit (by others)
H - To next fixture
I - Power input or from previous fixture
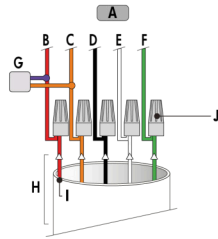**J -** Wire-nuts (by others)

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Maximum of 64 DALI fixtures per DALI loop.
- 1% minimum dimming value.

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Star Layout (Dim to Warm Via DMX/RDM1* or 3-Channel DMX/RDM)
*Available For DWW Version Only, 2700K To 2200K

Star Layout (DMX/RDM1 or DMX/RDM) - Wiring Detail

A - To fixture
B - Data +
C - Data -
D - Line
E - Neutral
F - Ground
G - Lumenterminator*
H - Conduit (by others)
I - Power input or from previous fixture
J - Wire-nuts (by others)

A - DMX/RDM controller (order separately from Lumenpulse, or by others)
B - Data input (Belden 9841 or equivalent, by others)
C - Data output to next CBX (optional, not isolated/not boosted)
D - CBX-ST
E - Power input (120-480V, wiring by others)
F - Power and data output to fixture (wiring by others)
G - Conduit (by others)
H - Element Post-top

• Refer to CBX installation instructions for additional wiring details.
• Consult factory for specific applications and maximum fixture count/cable length recommendations.
• The DMX/RDM protocol states a maximum of 32 DMX/RDM enabled fixtures on any single run, maximum of 4 DMX/RDM repeaters/CBX cascading in line.
• Maximum of 6 outputs per CBX-ST.
• 1% minimum dimming value.
• DMX/RDM1 control option requires 1 DMX address. DMX/RDM control option requires 3 DMX addresses.
• RGBW30K and RGBW40K color mixture options require 4 DMX addresses.

*DMX terminator is required at the end of each run to maintain data integrity. (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.
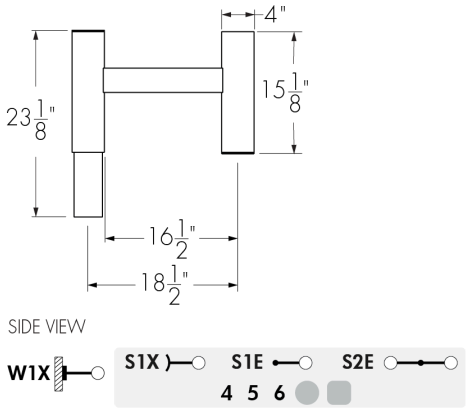
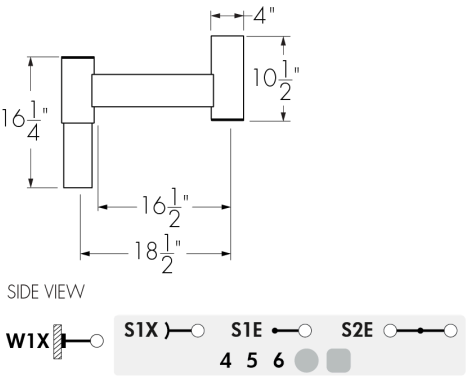## Mounting Options

TN4 - Top-Mount (4 in Tenon Adaptor)
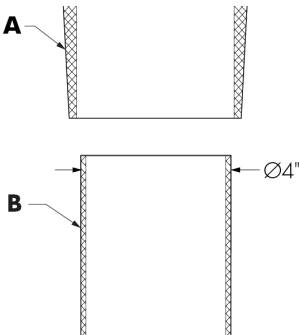
A - Luminaire
B - Decorative Arm

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TN4 - Top-Mount (4 in Tenon Adaptor) Arm Style Dimensions

DT1 Arm Style

SIDE VIEW

DT6 Arm Style

SIDE VIEW

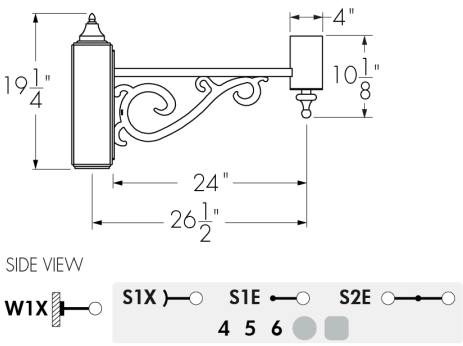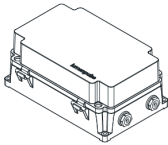### MC1 Arm Style

SIDE VIEW

- Mid-pole/mid-luminaire distance is based on 4 in pole (add 1/2 in for 5 in pole and 1 in for 6 in pole).

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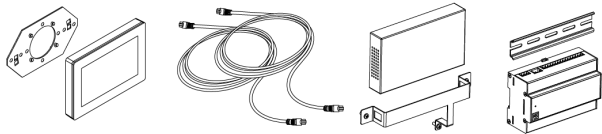## Control Boxes (Order Separately)

CBX-ST -CBX-ST-Power and Control Box - Star Configuration

DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Ethernet enabled option. Refer to CBX specification sheet for details.

Control Systems (Order Separately)

PHAROS - Pharos® Designer Lighting Control Kit

The Pharos Designer Lighting Contol Kit, available for 1 or 2 DMX universes, allows for complete control of large lighting installations.

Diagnostic And Addressing Tools (Order Separately)

LID - LumenID

LumenID is a diagnostic and addressing DMX/RDM tool. It must be specified on all DMX applications. Consult LID specification sheet for details.

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How to Order

Housing	Output (Nominal Lumens) [1]	Voltage	Color and Color Temperature [2]	Color Rendering [1]	Distributions	Lens	Finish	Control [7]	Option	Mounting Options
ELMP10 Element EP10 **ELMP20** Element EP20	**RO** Regular output **HO** High output	**120** 120 Volts **208** 208 Volts **240** 240 Volts **277** 277 Volts **347** 347 Volts **480** 480 Volts	**22K** 2200K [1] **27K** 2700K [1] **30K** 3000K [1] **35K** 3500K [1] **40K** 4000K [1] **57K** 5700K [1] **DWW** Dynamic Warm White (2200K to 3000K) **DWH** Dynamic White (2700K to 6500K) **RGBW30K** RGB + White 3000K **RGBW40K** RGB + White 4000K	**CRI 70** CRI 70+ **CRI 80** CRI 80+ [3]	**S120** Symmetric 120	**O** Opal lens	**BK** Black Sandtex® **BRZ** Bronze Sandtex® **SI** Silver Sandtex® **BKTX** Textured Black **BRZTX** Textured Bronze Non-Metallic **GRATX** Textured Medium Gray **GRNTX** Textured Green **WHTX** Textured White **CC** Custom Color & Finish [4] [5] [6]	**NO** On/Off Control [8] **DIM** 0-10V Dimming [8] **DALI** DALI Dimming [8] **DMX/RDM** DMX/RDM Enabled [9] **DIM/DTW** Dim to Warm via 0-10V (2700K to 2200K) [10] **DMX/RDM1** Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K) [10]	**SP** Surge Protector	**TN4** Top-Mount (4 in Tenon Adapter)

Notes:

1. Specify for white light only.
2. Consult factory for static red, green or blue configuration.
3. CRI 80 available for 22K, 27K, 30K, 35K and 40K color temperatures only.
4. Specify RAL number followed by "TX" for textured finish (ex: RAL9007TX) or STX for Sandtex finish (ex: RAL9007STX). Textured or Sandtex finishes are recommended for the durability of all products. If a finish is not specified with the RAL number (ex: RAL9007), a glossy finish will be provided. Please consult factory for other RAL textures and glosses, or to match alternate color charts. Final color matching results may vary.

5. Setup charges apply for RAL colors. Consult factory for details.
6. Longer lead times can be expected for custom RAL color finishes.
7. Consult factory for more control options.
8. On/Off, DIM and DALI control options available for white light configuration only.
9. DMX/RDM control option available for color changing and dynamic white configurations only.
10. DIM/DTW and DMX/RDM1 control options available for dynamic warm white configuration only.