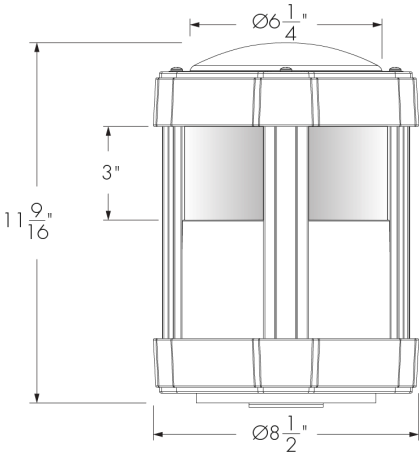


Project Name _____ Qty _____

Type _____ Catalog / Part Number _____



Front view

Photometric Summary

Output	SO - Soft output	RO - Regular output
Delivered lumens (lm)	343	642

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

Delivered lumens (lm)	173
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Based on RGBV40K full output, DMX/RDM control.
Photometric performance is measured in compliance with IESNA LM-79-08.

Wattage Summary

White Light	Voltage	SO - Soft output [W]†	RO - Regular output [W]†
NO/DIM	120-277V	11	24
	347V	13	25
DALI	120-277V	11	24

Color Changing	Voltage	Wattage†
RGBW30K, RGBW40K - DMX/RDM	120-347V	20

Dynamic White	Voltage	Wattage†
DWH - DMX/RDM	120-277V	1.5
	347V	1.6
DWW- DIM 0-10V	120-277V	1.3
	347V	1.4
DWW - DMX/RDM	120-277V	1.5
	347V	1.6
DWW - DMX/RDM1	120-277V	1.3
	347V	1.4

†Delivered wattage: +/- 10% tolerance.

Description

The Element Surface Mount is a high-performance LED wall-mounted luminaire for decorative lighting, public squares, and access roads. Configurable, the cylindrical luminaire provides a choice of outputs and finishes, as well as Legacy or Custom output modes, offering you flexibility with exceptional continuity. The Element Surface Mount 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)	Soft Output, Regular Output
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Voltage	120 Volts, 208 Volts, 240 Volts, 277 Volts, 347 Volts
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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)
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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
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Distributions	Symmetric 120
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Warranty	5-year limited warranty
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Performance

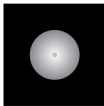
Color Rendering	CRI 70+, CRI 80+
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Lumen Maintenance	L70 120,000hrs (Ta 25 °C [77 °F])
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Physical

Housing Material	Aluminum
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Distribution



S120

Colors and Color Temperatures

White & Static Colors



Dynamic White



Color Changing



Control

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

Lumencycle™ Program

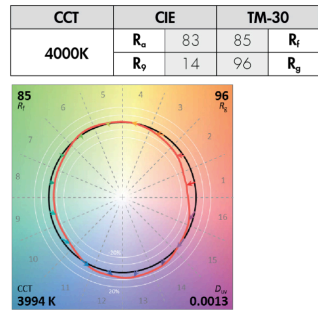


Certifications



Chromaticity Data

TM-30 - 4000K



Lens Material	Moulded white and UV stabilized acrylic
Weight	9.7 lbs
EPA	0.3 ft²

Environmental

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

Ratings

LED module	IP66 - Outdoor rated
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Accessories (Order Separately)

Control Boxes	DMX/RDM enabled (Daisy Chain or Star Configuration)
Control Systems	Consult Control Systems section for details, Pharos® Designer Lighting Control Kit (PHAROS)
Diagnostic and Addressing Tools	LumenID (LID)

Important

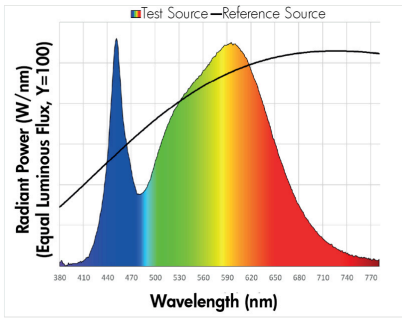
Virtual Patent Marking Notice

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

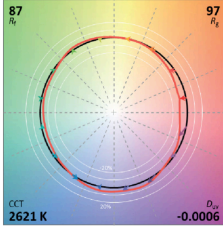
Lumencycle is a comprehensive program designed to maximize the life of Lumenpulse fixtures while preserving their performance, quality, and design intent. Built around three pillars—Repair, Restore, and Recycle—the program provides clear pathways to maintain existing installations, restore fixtures,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

Spectral Power Distribution

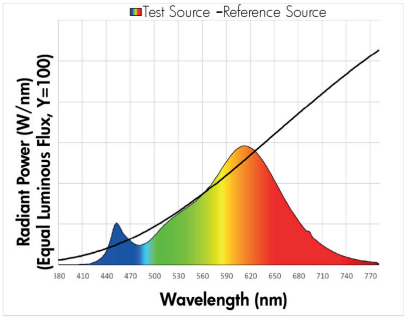


TM-30 - DWW

CCT	CIE	TM-30
DWW	R _a	86
Full Output	R _g	97
	R _g	97

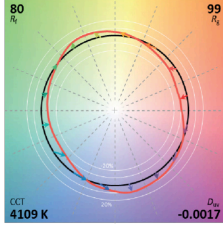


DWW Spectral Power Distribution

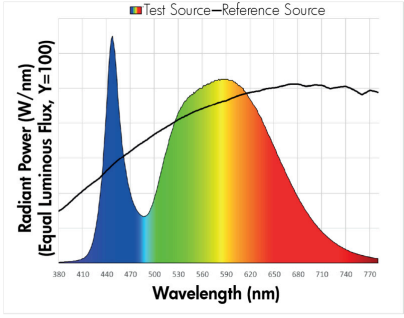


TM-30 - DWH

CCT	CIE	TM-30
DWH	R _a	81
Full Output	R _g	99
	R _g	99

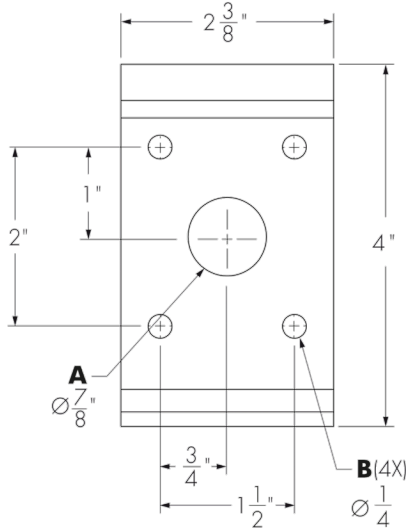


DWH Spectral Power Distribution



Assembly Details

Wall Support (Hardware Not Included)



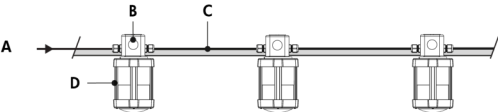
- A - Wire feeding location
- B - For Ø1/4 bolt (not included)

Typical Wiring Diagrams

Wiring Color Code

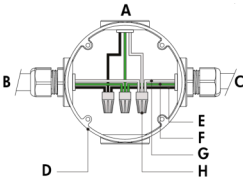
Color	Black	White	Green	Purple/Red	Gray/Orange
Use	Line	Line/Neutral	Ground	0-10V+ /Data +	0-10V- /Data -

On/Off Control (NO)



- A - Power input (120-347V, wiring by others)
- B - Junction box (by others)
- C - Power wiring (by others)
- D - Element Surface

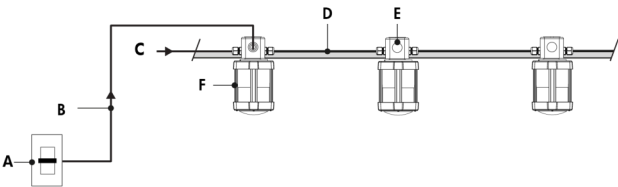
On/Off Control (NO) - Wiring Detail



- A - To fixture
- B - Power input or from previous fixture
- C - To next fixture
- D - Junction box (by others)
- E - Line
- F - Ground
- G - Neutral
- H - Wire-nuts (by others)

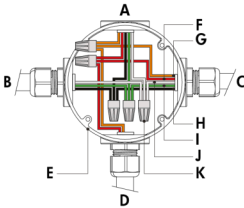
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

0-10V Dimming (DIM)



- A - Dimmer (by others)
- B - Data wiring (by others)
- C - Power input (120-347V, wiring by others)
- D - Power and data wiring (by others)
- E - Junction box (by others)
- F - Element Surface

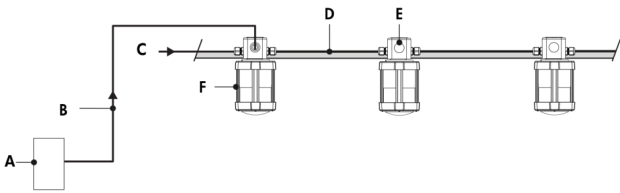
0-10V Dimming (DIM) - Wiring Detail



- A - To fixture
- B - Power input or from previous fixture
- C - To next fixture
- D - From third party dimmer
- E - Junction box (by others)
- F - 0-10V +
- G - 0-10V-
- H - Line
- I - Ground
- J - Neutral
- K - 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.

DALI Dimming (DALI)

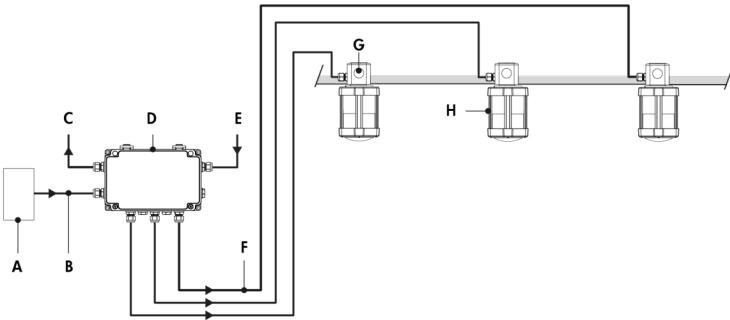


- A - DALI controller (by others)
- B - Data wiring (by others)
- C - Power input (120-277V, wiring by others)
- D - Power and data wiring (by others)
- E - Junction box (by others)
- F - Element Surface

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

Star Layout (Dim to Warm Via DMX/RDM1* or 3-Channel DMX/RDM)

*Available For DWW Version Only, 2700K To 2200K

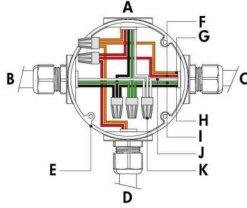


- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-ST
- E - Power input (120-347V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Element Surface

- 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.

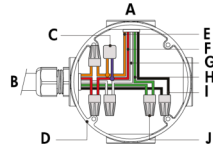
*DMX terminator is required at the end of each run to maintain data integrity. (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.

DALI Dimming (DALI) - Wiring Detail



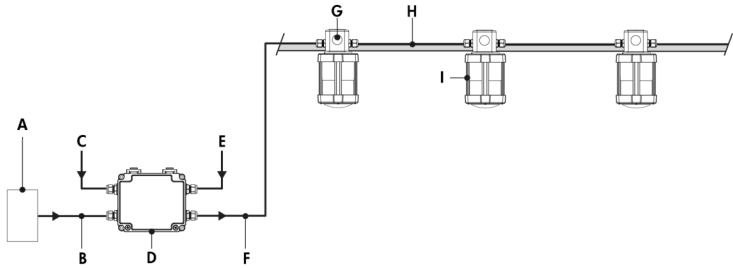
- A - To fixture
- B - From CBX or previous fixture
- C - To next fixture
- D - From third party DALI controller
- E - Junction box (by others)
- F - Data +
- G - Data -
- H - Line
- I - Ground
- J - Neutral
- K - Wire-nuts (by others)

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



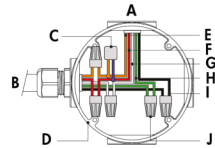
- A - To fixture
- B - From CBX or previous fixture
- C - Lumenterminator*
- D - Junction box (by others)
- E - Data -
- F - Data +
- G - Neutral
- H - Ground
- I - Line
- J - Wire-nuts (by others)

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



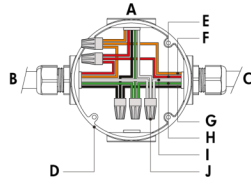
- A - DMX/RDM controller (order separately from Lumenpulse, or by others)
- B - Data input (Belden 9841 or equivalent, by others)
- C - Data output to next CBX (optional, not isolated/not boosted)
- D - CBX-DS
- E - Power input (120-347V, wiring by others)
- F - Power and data output to fixture (wiring by others)
- G - Junction box (by others)
- H - Power and data wiring (by others)
- I - Element Surface

Daisy Chain Layout (DMX/RDM1 or DMX/RDM)
Wiring Detail (End Of Run)



- A - To fixture
- B - From CBX or previous fixture
- C - Lumenterminator*
- D - Junction box (by others)
- E - Data -
- F - Data +
- G - Neutral
- H - Ground
- I - Line
- J - Wire-nuts (by others)

Daisy Chain Layout (DMX/RDM1 or DMX/RDM)
Wiring Detail (First Or Middle Of Run)



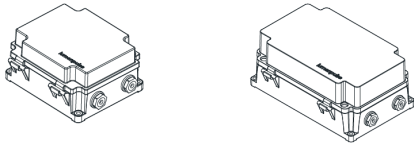
- A - To fixture
- B - From CBX or previous fixture
- C - To next fixture
- D - Junction box (by others)
- E - Data +
- F - Data -
- G - Line
- H - Ground
- I - Neutral
- J - Wire-nuts

- 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 1 output per CBX-DS.
- Maximum of 3 ft cable length between fixture and next junction box for daisy chain layout.
- 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. (2x) DMX lumenterminators included per CBX-DS. See installation instructions for details.

Control Boxes (Order Separately)

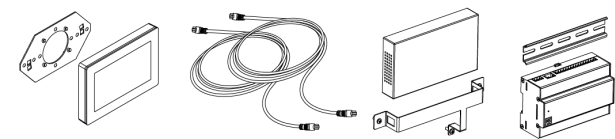
CBX-DMX/RDM - DMX/RDM Enabled (Daisy Chain or Star Configuration)



DMX/RDM control box. Up to six power and data outputs to fixtures or fixture runs. Consult CBX specification sheet and installation instructions for details. Lumenterminators provided with CBX (2x for daisy chain configuration, 6x for star configuration), consult factory to order spares.

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.

How to Order

Housing	Output (Nominal Lumens) ⁽¹⁾	Voltage	Color and Color Temperature ⁽²⁾	Color Rendering ⁽¹⁾	Distributions	Lens	Finish	Control ⁽⁸⁾
ELMM30 Element EM30	SO Soft Output RO Regular Output	120 120 Volts 208 208 Volts 240 240 Volts 277 277 Volts 347 347 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) ⁽³⁾ DWH Dynamic White (2700K to 6500K) ⁽³⁾ RGBW30K RGB + White 3000K RGBW40K RGB + White 4000K	CRI 70 CRI 70+ CRI 80 CRI 80+ ⁽⁴⁾	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 ⁽⁵⁾ ⁽⁶⁾ ⁽⁷⁾	NO On/Off Control ⁽⁹⁾ DIM 0-10V Dimming ⁽⁹⁾ DALI DALI Dimming ⁽⁹⁾ ⁽¹⁰⁾ DMX/RDM DMX/RDM Enabled ⁽¹¹⁾ DIM/DTW Dim to Warm via 0-10V (2700K to 2200K) ⁽¹²⁾ DMX/RDM1 Dim to Warm via Single-Channel DMX/RDM (2700K to 2200K) ⁽¹²⁾

Notes:

1. Specify for white light only.

2. Consult factory for static red, green or blue configuration.

3. DWW, DWH, RGBW30K and RGBW40K color mixes available up to 277V.

4. CRI 80 available for 22K, 27K, 30K, 35K and 40K color temperatures only.

5. 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.
6. Setup charges apply for RAL colors. Consult factory for details.

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

8. Consult factory for more control options.

9. On/Off, DIM and DALI control options available for white light configuration only.

10. DALI control option available up to 277V.

11. DMX/RDM control option available for color changing and dynamic white configurations only.

12. DIM/DTW and DMX/RDM1 control options available for dynamic warm white configuration only.