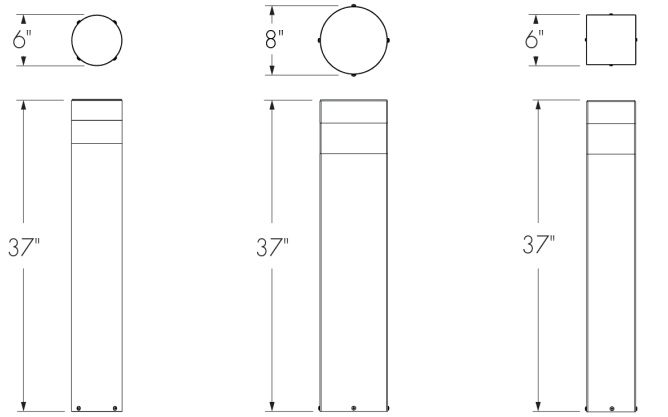
Specification Sheet

Mobilia
Bollard

MOBB6
MOBB8

Project Name _____ **Qty** _____

Type _____ **Catalog / Part Number** _____

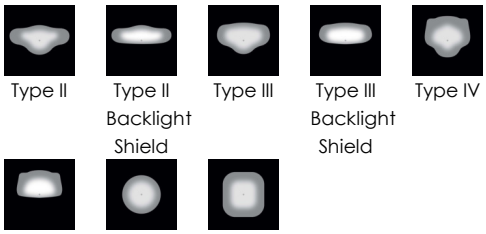


MOBB6 Round | MOBB8 Round | MOBB6 Square

Top views

Side views

Distributions



Type II | Type II Backlight Shield | Type III | Type III Backlight Shield | Type IV

Type IV Backlight Shield | Type V | Type V Square

Color and Color Temperature

2200K | 2700K | 3000K | 3500K | 4000K

5700K | RGB + White 3000K | RGB + White 4000K

Control

ON/OFF | 0-10V | DMX/RDM | lumentalk

Rating

IP66 (optical chamber)

Description

The Mobilia Bollard is an LED bollard perfectly suited for urban lighting applications, including landscapes, bike lanes, pedestrian paths, plazas, collector roads. Featuring a choice of round or square design and available in 6 in or 8 in diameters, the Mobilia Bollard offers the option of a Clear or Frosted lens as well as numerous distributions to deliver even, energy-efficient illumination.

Features

Color and Color Temperature	2200K, 2700K, 3000K, 3500K, 4000K, 5700K, RGB + White 3000K, RGB + White 4000K
Distributions	Type II, Type III or Type IV (with or without backlight shield), Type V, Type V square
Option	Corrosion-resistant Coating for Hostile Environments Surge Protector Photoelectric Cell Button Type Ground Fault Duplex Receptacle Ground Fault Duplex Receptacle (while in use) Tamper-Proof Screws Duplex Receptacle with USB A and USB C Duplex Receptacle with USB A and USB C in-use
Power Consumption	12W/luminaire (SO version), 24W/luminaire (RO version)
Warranty	5-year limited warranty

Performance

Output (Nominal Lumens)	Soft output (750 lumens), Regular output (1500 lumens)
Color Rendering	CRI 70+, CRI 80+
Lumen Maintenance	L70 120,000hrs (Ta 25 °C [77 °F])

Physical

Housing Material	Extruded aluminium 6000 alloy series

lumenpulse™

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www.lumenpulse.com **www.lumenpulse.com/products/2668**

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JC - R14

Certifications

Lens Material	Moulded acrylic impact resistant, clear or frosted lens
Hardware Material	Stainless steel
Weight	20 lbs (MOBB6 Round and Square), 24 lbs (MOBB8 Round)
Surface Finish	Super durable resistant exterior polyester powder coating meets AAMA 2604-98 requirements (5-years Florida exposure). A corrosion resistant finish (CRC) pre-finish is available to meet ASTM B-117 & ASTM D-1654 (salt spray resistance) and ASTM D-2247 requirements (humidity resistance).

Electrical and Control

Voltage	120 volts, 208 volts, 240 volts, 277 volts, 347 volts, 480 volts
Control	On/Off Control, 0-10V Dimming, DMX/RDM enabled, Lumentalk

Environmental

Storage Temperature	-40 °F to 122 °F (device must reach start-up temperature value before operating)
Start-up Temperature	-40 °F to 104 °F
Operating Temperature	-40 °F to 104 °F
Ingress Protection Rating	IP66 (LED module)
Environment	Dry/damp/wet location

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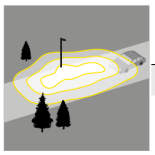
Photometric Information

Mobilia Bollard 6 in (Round And Square Shapes)

Type II, 4000K, CRI 80+

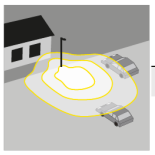


	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B	U	G	Typical maximum power 120/277V (W)
SO	691	58	0	2	1	12
RO	1,293	54	1	2	1	24

Type III, 4000K, CRI 80+

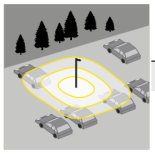
	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B	U	G	Typical maximum power 120/277V (W)
SO	723	60	0	2	1	12
RO	1,352	56	1	2	1	24

Type IV, 4000K, CRI 80+



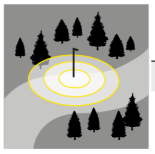
	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B	U	G	Typical maximum power 120/277V (W)
SO	704	59	0	2	1	12
RO	1,317	55	1	2	1	24

Type V Square, 4000K, CRI 80+



	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B	U	G	Typical maximum power 120/277V (W)
SO	816	68	1	2	1	12
RO	1,527	64	1	2	1	24

Type V, 4000K, CRI 80+



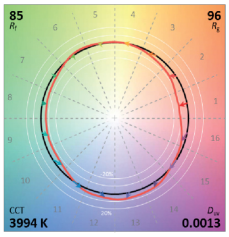
	Nominal output [lm]	Typical delivered output [lm]	Efficiency (lm/W)	BUG Rating B	U	G	Typical maximum power 120/277V (W)
SO	705	59	0	3	1	12
RO	1,319	55	1	3	1	24

Photometric performance is measured in compliance with IESNA LM-79-08. Due to rapid and continous advance in LED technology, photometric information is subject to change without notice.

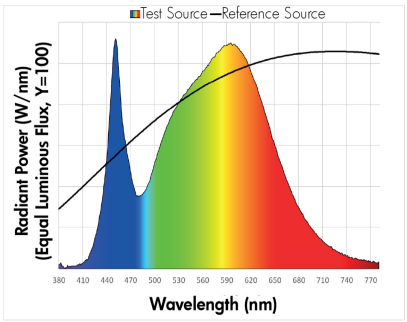
Chromaticity Data

TM-30 - 4000K

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



Spectral Power Distribution



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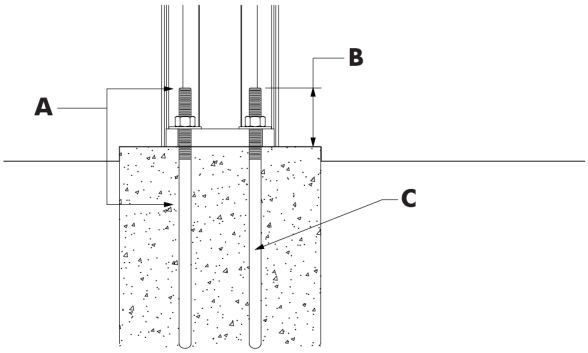
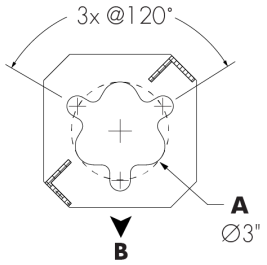
Anchoring Details

Anchor Details

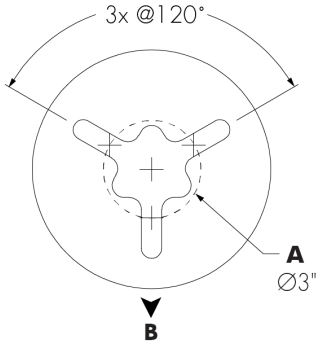


A - Galvanized steel portion
B - The threads of anchors must protrude between 2 in and 3 in from concrete base.
C - (3X) Ø 1/2" by 12 in anchors, supplied with two nuts and flat washers for each (provided).

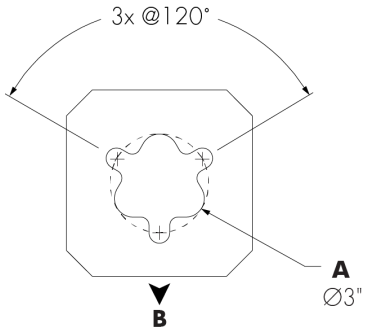
MOBB6 Round - Bolt Circle



MOBB8 Round - Bolt Circle



MOBB6 Square - Bolt Circle



A - Bolt circle
B - Street side

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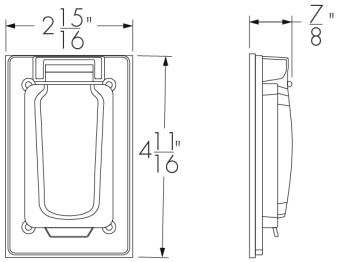
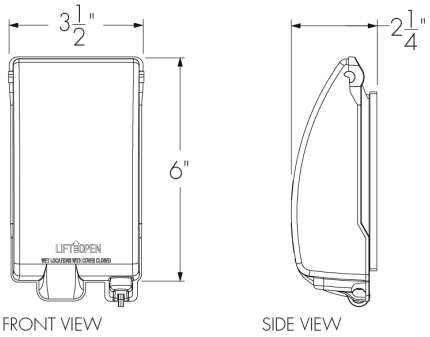
Duplex Receptacle Details

DRG - Ground Fault Duplex Receptacle
USB - Duplex Receptacle With USB A and USB C



DRG IU - Ground Fault Duplex Receptacle (While in Use)
USB IU - Duplex Receptacle With USB A And USB C (While In Use)



* Weather-restistant and lockable cover (padlock by others)

A - Cord and plug from third party accessory or device.

Standard location of duplex receptacle (DRG, USB, DRG IU and USB IU) is 16 in from the ground on street side (consult factory for others configurations).

The duplex receptacle must be installed in accordance with applicable national and local electrical and construction codes by a person familiar with the construction and operation of the product and the hazards involved. Refer to national and local electrical codes before selecting a duplex receptacle to ensure all requirements are met.

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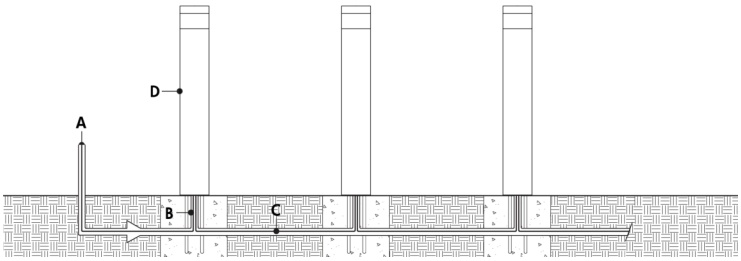
Typical Wiring Diagrams

Wiring Color Code

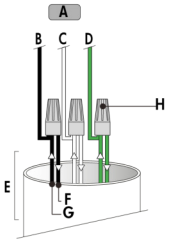
Color	Black	White	Green	Purple/Red	Gray/Orange
Use	Line	Line/Neutral	Ground	0 -10V+ /Data +	0 -10V - /Data -

On/Off Control (NO)



A - Power input (120-480V, wiring by others)
B - Conduit (by others)
C - Power wiring (by others)
D - Mobilia Bollard

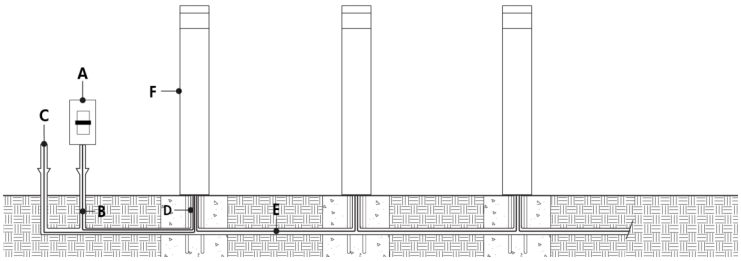
On/Off Control (NO) - Wiring Detail



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)

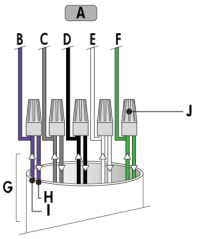
- Consult factory for specific applications and maximum fixture count/cable length recommendations.

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 - Mobilia Bollard

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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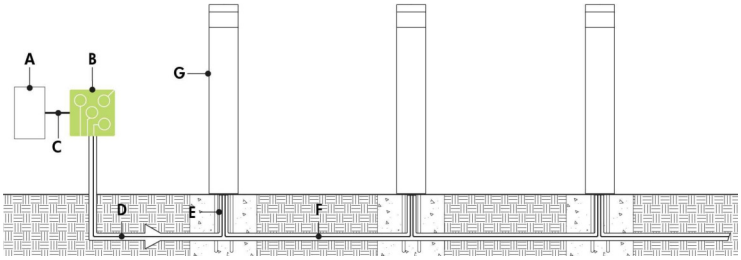
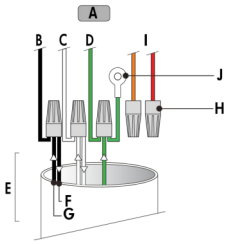
Lumentalk (LT)



A - Dimmer/controller (order separately from Lumenpulse, or by others)
B - Lumentranslator (LTL-010, -DMX, -TRIAC, -DALI)
C - Data wiring (by others)
D - Power line (120-277V, wiring by others)
E - Conduct (by others)
F - Power wiring (by others)
G - Mobilia Bollard

Lumentalk (LT) - Wiring Detail



A - To fixture
B - Line
C - Neutral
D - Ground
E - Conduit (by others)
F - To next fixture
G - Power input or from previous fixture
H - Wire-nuts (by others)
I - Not required
J - Ground lug

- Consult factory for specific applications and maximum fixture count/cable length recommendations.
- Lumentalk enabled fixtures must be commissioned using LumentalkID software and a LID-LT. Consult factory for details.
- Maximum of 1 transmitter (Lumentranslator or Lumenlink) per system.
- No third party fixtures allowed on the same circuit.
- For DMX applications: 1 DMX controller per Lumentalk network, maximum of 48 DMX channels per Lumentalk network (minimum step transition update rate is 1 second, minimum fade time between two colors is 1 minute). Consult factory for applications that require additional capabilities.
- Consult factory for DALI Lumentalk applications.
- 1% minimum dimming value.

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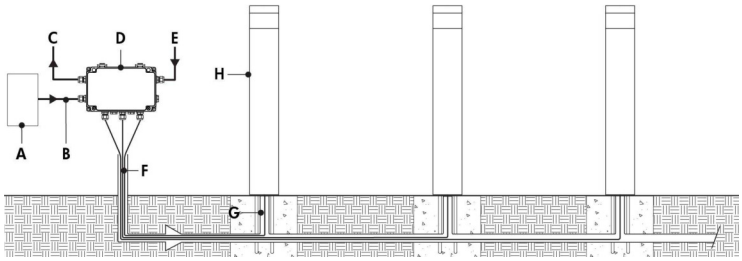
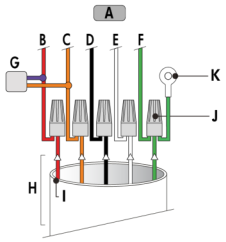
Star Layout (DMX/RDM)



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 - Mobilia Bollard

DMX/RDM - Wiring Detail (Star Layout)



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

- Consult 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.
- Each fixture requires 1 DMX address.
- DMX terminator is required at the end of each run to maintain data integrity. Six (6x) DMX lumenterminators included per CBX-ST. See installation instructions for details.
- 1% minimum dimming value.
- 100 watts per fixture.

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How to Order

Housing	Shapes	Voltage	Lens	Output (Nominal Lumens) (4)	Color and Color Temperature	Color Rendering (4)	Distributions	Finish	Control	Option	Anchor Bolts Option
MOBB6 Mobilia Bollard 6 in (1) **MOBB8** Mobilia Bollard 8 in (2)	**R** Round **S** Square	**120** 120 Volts **208** 208 volts **240** 240 volts **277** 277 Volts **347** 347 volts **480** 480 volts	**CL** Clear lens (3) (4) **FR** Frosted lens (5)	**SO** Soft output (750 lumens) **RO** Regular output (1500 lumens)	**22K** 2200K **27K** 2700K **30K** 3000K **35K** 3500K **40K** 4000K **57K** 5700K (6) **RGBW30K** RGB + White 3000K (5) (7) (8) **RGBW40K** RGB + White 4000K (5) (7) (8)	**CRI 70** CRI 70+ (9) **CRI 80** CRI 80+ (10)	**2** Type II **2BLS** Type II Backlight Shield **3** Type III **3BLS** Type III Backlight Shield **4** Type IV **4BLS** Type IV Backlight Shield **5** Type V **5S** Type V Square	**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 (11) (12) (13)	**NO** On/Off Control **DIM** 0-10V Dimming **DMX/RDM** DMX/RDM enabled (14) **LT** Lumentalk (15) (16)	**CRC** Corrosion-resistant coating **SP** Surge Protector **PB** Photoelectric Cell Button Type (17) (18) **DRG** Ground Fault Duplex Receptacle (19) **DRG IU** Ground Fault Duplex Receptacle (while in use) (19) **TP** Tamper-Proof Screws **USB** Duplex Receptacle with USB A and USB C (19) **USB IU** Duplex Receptacle with USB A and USB C in-use (19)	**AB** Anchor Bolts (20)

Notes:

1. Consult factory for MOBB6 and square shape combination.
2. Available with round shape only.
3. Available with types 2, 2BLS, 3, 3BLS, 4, 4BLS and 5S distribution only.
4. Available for 22K, 27K, 30K, 35K, 40K and 57K color temperatures only.
5. Available with type 5 distribution only.
6. Consult factory for 5700K color temperature option.
7. Available with FR lens only.
8. Available with DMX/RDM and LT control options only.
9. CRI 70 available for 40K and 57K color temperatures only.
10. CRI 80 available for 22K, 27K, 30K, 35K and 40K color temperatures only.
11. 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.
12. Setup charges apply for RAL colors. Consult factory for details.
13. Longer lead times can be expected for custom RAL color finishes.
14. Available for RGBW30K and RGBW40K color options only.
15. Not available for 347V and 480V voltage options.
16. Lumentalk cannot be combined with a ground fault duplex receptacle (DRG or DRG IU).
17. Not available for 480V voltage option.
18. Not available with LT control option.
19. Only one duplex receptacle can be specified by fixture.
20. Anchor bolts provided with double nuts, washers and template. One template provided for every 5 luminaires.

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