HYDREL
An Acuity Brands Company

SUITABLE FOR WET LOCATIONS IP68 3M

M9410/M9430 SERIES
MODULAR IN-GRADE LUMINAIRE
SINGLE LENS

DESCRIPTION

Hydrel's M9410/M9430 Series modular in-grade lights are multi-purpose units designed for uplighting architectural and landscape features. These units can be flush mounted into a variety of substrates or landscape materials.

The M9410/M9430 consists of a factory-sealed, thermally protected lamp module and encapsulated power module. The components are secured inside a heavy-duty polymer rough-in housing designed with channeled convective cooling, an integral junction box, and finish door trim assembly.

FEATURES & SPECIFICATIONS

DOOR MATERIAL: Cast Aluminum, cast bronze, cast aluminum or bronze with stainless perforated trim insert or Stainless Steel. Available in round or square door trim.

ROUGH-IN SECTION: Injection molded polymer with integral junction box for thru- branch wiring. The housing is U.V. stabilized, impact and corrosion resistant for use in all types of environments. The rough-in has a cylinder or side-car configuration and houses the lamp and power module components and top door finishing section.

LAMP MODULE: Stainless steel housing, factory-sealed and purged of all moisture for longer component life. Lens is sealed with silicone gasket and stainless steel clamp band assembly with single fastener. Electrical connection to lamp module is done through a submersible quick pull plug connector with gold-plated contacts. Unit is thermally protected. LAMP INCLUDED.

LAMP TYPE: **Low Voltage:** MR-16 bi-pin base, 75 Watt max., PAR-36 screw terminal base, 75 Watt max.
Incandescent: T-4 quartz halogen mini-can or B15d base, 100 Watt max.
Fluorescent: Triple tube CFL 4-pin base, 32 Watt max.
HID: T-4 or T-6 bi-pin base, 70 Watt max.,PAR-20 or PAR-30 medium or E27 base, 70 Watt max. Color Corrected Metal Halide

If a specific lamp is desired, specify manufacturer's lamp number, most lamps can be supplied. LAMP INCLUDED.

VOLTAGE: See ordering guide.

LIGHT DISTRIBUTION: See ordering guide.

FINISHING SECTION: Single lens design includes door assembly with 360° Aim-Lock™ lamp module support ring. Module indexing provides easy maintenance and relamping without re-aiming. Active optical lenses are also available. Door trim locks into position with two stainless steel captive, tamper-resistant fasteners.

POWER MODULE: Ballast /Transformer is encapsulated in a custom designed heat-dissipating epoxy resin that also eliminates all moisture intrusion to the ballast. Module is provided with submersible rated cord leads for connection to integral junction box and lamp module. Standard ballast is high power factor, low starting temperature; fluorescent electronic or HID magnetic. HID electronic ballast also available.
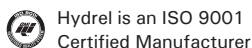
CONDUIT ENTRIES: Two (2) bottom or side entries available. Box suitable for thru-branch wiring. Splicing volume is 25 in³ (410 ccm).
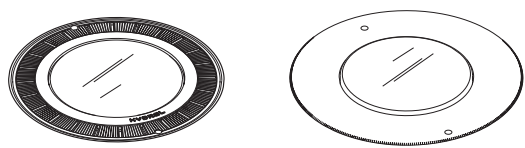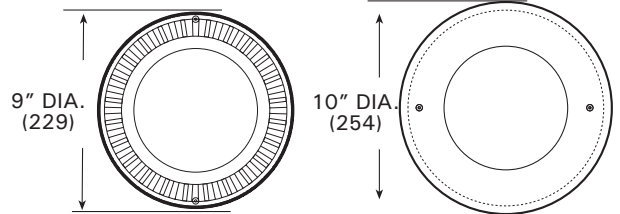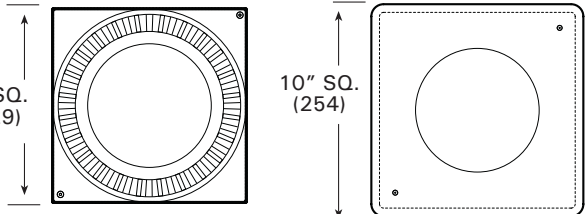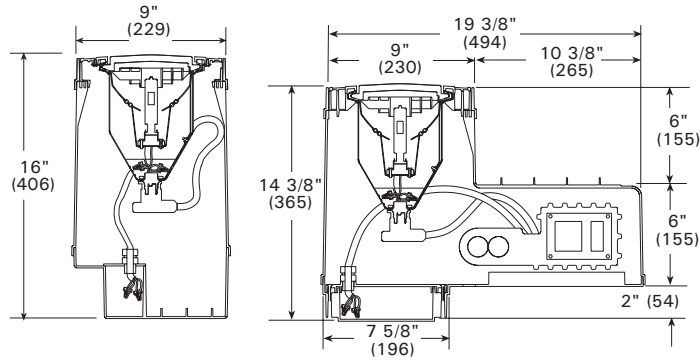**NOTE:** Potting compound (PC21) recommended for junction box splices. PC21 sold separately.

ACCESSORIES: See ordering guide.

FINISH: Finish is natural aluminum or bronze. Stainless steel door is brushed finish. Aluminum doors may be painted. See ordering guide for color options.

LISTING: U.L., CE

Hydrel is an ISO 9001 Certified Manufacturer

TYPE		JOB NAME
PART NUMBER		

Model	Material	Lamp Type	Voltage	Distribution	Lens	Conduit Entries	Accessories	Options	Lamp	Finish	List

Bronze or Aluminum Round

Stainless Steel Round

9" DIA. (229)

10" DIA. (254)

9" Bronze or Aluminum Square

10" Stainless Steel Square

9" SQ. (229)

10" SQ. (254)

9" (229)

16" (406)

Incandescent & Fluorescent Rough-In Housing

19 3/8" (494)

9" (230)

10 3/8" (265)

14 3/8" (365)

6" (155)

6" (155)

2" (54)

7 5/8" (196)

HID Rough-In Housing

APPROVALS

M9410/M9430 ORDERING INFORMATION

60 Hz Application

Choose the boldface catalog nomenclature that best suits your needs.

PART NO.

EXAMPLE:

| M9410 | SS | 70CMT6 | 120 | NSP | FLC10 | 34B | ISS | SF | LP |

Material

- ☐ **A** Aluminum
- ☐ **B** Bronze
- ☐ **ASP**[1] Alum. Stainless Perf.
- ☐ **BBP**[1] Bronze Bronze Perf.
- ☐ **BSP**[1] Bronze Stainless Perf.
- ☐ **SS** Stainless Steel

Voltage

- ☐ **12**[4]
- ☐ **120**
- ☐ **208**
- ☐ **220**
- ☐ **240**
- ☐ **277**
- ☐ **347**
- ☐ **MVOLT**[5]

Distribution[6]

- ☐ **NSP** Narrow Spot
- ☐ **SP** Spot
- ☐ **NFL** Narrow Flood
- ☐ **MFL** Medium Flood
- ☐ **FL** Flood
- ☐ **WFL** Wide Flood
- ☐ **WWD**[7] Wall Wash Distribution
- ☐ **ASY**[8] Asymmetric

Conduit Entry

- ☐ **12B** 1/2" NPT bottom
- ☐ **12S** 1/2" NPT side
- ☐ **34B** 3/4" NPT bottom
- ☐ **34S** 3/4" NPT side

Options

Fusing
- ☐ **SF**[15] Single Fuse
- ☐ **DF**[16] Double Fuse

Ballasting[17]
- ☐ **GEB** Electronic Ballast
- ☐ **MLEBAD**[18] Analog Dimming Ballast

Model

- ☐ **M9410** Round
- ☐ **M9430** Square

Lamp Type

Low Voltage
- ☐ **M50** MR16, GX5.3 base
- ☐ **M75** MR16, GX5.3 base
- ☐ **P3650ILV** PAR36, screw terminal base
- ☐ **P3675ILV** PAR36, screw terminal base

Incandescent[2]
- ☐ **P2050I** PAR20, med. base
- ☐ **P3050I** PAR30, med. base
- ☐ **P3075I** PAR30, med. base
- ☐ **100Q** T4, mini-can base

Fluorescent
- ☐ **18TRT** Triple Tube, GX24q2 base
- ☐ **26TRT** Triple Tube, GX24q3 base
- ☐ **32TRT** Triple Tube, GX24q3 base

MH
- ☐ **20CMT4**[3] T4, G8.5 base
- ☐ **35CMT4**[3] T4, G8.5 base
- ☐ **35CMT6** T6, G12 base
- ☐ **70CMT4** T4, G8.5 base
- ☐ **70CMT6** T6, G12 base
- ☐ **P2035CM** PAR20, med. base
- ☐ **P3035CM** PAR30, med. base
- ☐ **P3070CM** PAR30, med. base

Lens

- ☐ **FLC** Flat Lens Clear
- ☐ **FLC5**[9] Flat Lens Clear, 5° axial
- ☐ **FLC10** Flat Lens Clear, 10° tilt
- ☐ **FLC20** Flat Lens Clear, 20° tilt
- ☐ **FLF** Flat Lens Frosted
- ☐ **FLF5**[10] Flat Lens Frosted, 5° axial
- ☐ **FLCAS** Flat Lens Clear, Anti-Slip
- ☐ **CLC** Convex Lens, Clear
- ☐ **CLF** Convex Lens, Frosted

Accessories

Internal[11]
- ☐ **IHL** Honeycomb Louver
- ☐ **ISS**[12] Source Shield
- ☐ **LSF**[13] Linear Spread Filter
- ☐ **CFAMB**[13] Color Filter Amber
- ☐ **CFBLU**[13] Color Filter Blue
- ☐ **CFGRN**[13] Color Filter Green
- ☐ **CFRED**[13] Color Filter Red
- ☐ **WWL** Wall Wash Louver

External[11,14]
- ☐ **GS** Glare Shield
- ☐ **LC** Lexan Cover
- ☐ **LS** Light Shield
- ☐ **RG**[13] Rock Guard

Trims[11,14]
- ☐ **BTR** Bronze Round
- ☐ **BTS** Bronze Square
- ☐ **STR** Stainless Round
- ☐ **STS** Stainless Square

Lamp

- ☐ **LP** Lamp Installed

Finish[19]

- ☐ **BL** Black
- ☐ **BZ** Bronze
- ☐ **DDB** Dark Bronze
- ☐ **DNA** Natural Alum.
- ☐ **GN** Green
- ☐ **GR** Gray
- ☐ **SND** Sand
- ☐ **STG** Steel Gray
- ☐ **TVG** Terra Verde Green
- ☐ **WH** White
- ☐ **CF** Custom Finish

M9400 Series Assembly consists of the following individual component parts:
- MRIS94 Rough-In Housing
- MFS94 Finishing Section
- MACS Lamp Module
- MHSL94 Ballast Module

Notes:

[1] Not Available with M9430 square model.

[2] Incandescent models available with 120 Volt only.

[3] Lamps available with GEB or MLEBAD electronic MVOLT (120V-277V) ballast only.

[4] Available for Low Voltage lamps only. Remote 12V power supply required (sold separately).

[5] MVOLT is standard on all Fluorescent lamps and MH lamps with GEB or MLEBAD ballast option.

[6] Not all distributions are valid with all lamp types, consult lamp manufacturers' specifications.

[7] WWD distribution available with T4 G8.5 base MH, T4 mini-can base Incandescent, or Fluorescent lamps only.

[8] ASY distribution available with Fluorescent lamps only.

[9] FLC5 lens standard with WWD distribution using Fluorescent lamps.

[10] FLF5 lens standard with WWD distribution using MH or incandescent lamps.

[11] Accessories are mutually exclusive, choose one only.

[12] ISS available with T6 and T4 lamps only. Not available with WWD distribution.

[13] Not available with CLC or CLF convex lens.

[14] Accessory not available with SS door material.

[15] SF available with 120, 277 or 347 supply voltages on MH fixtures only.

[16] DF available with 208, 220 or 240 supply voltages on MH fixtures only.

[17] Ballast options available with MH lamps only.

[18] 0-10 Volt remote analog powered dimmer system with additional supply wiring required (by others).

[19] Door material finish is natural cast aluminum (A) or cast bronze (B) unless specified. Stainless steel (SS) door available with brushed finish standard.

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10/19/05
M9410_M9430

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M9410/M9430 ORDERING INFORMATION

50 Hz Application
Choose the boldface catalog nomenclature that best suits your needs.

PART NO.

EXAMPLE:

M9410   SS   70CMT6   23050HZ   NSP   FLC10   16B   ISS   LP   IEC

Material
- [ ] **A** Aluminum
- [ ] **B** Bronze
- [ ] **SS** Stainless Steel
- [ ] **ASP**[1] Alum. Stainless Perf.
- [ ] **BBP**[1] Bronze Bronze Perf.
- [ ] **BSP**[1] Bronze Stainless Perf.

Voltage
- [ ] **12**[3]
- [ ] **22050HZ**
- [ ] **23050HZ**
- [ ] **24050HZ**
- [ ] **MVOLT**[4]

Distribution[5]
- [ ] **NSP** Narrow Spot
- [ ] **SP** Spot
- [ ] **NFL** Narrow Flood
- [ ] **MFL** Medium Flood
- [ ] **FL** Flood
- [ ] **WFL** Wide Flood
- [ ] **WWD**[6] Wall Wash Distribution
- [ ] **ASY**[7] Asymmetric

Conduit Entry
- [ ] **16B** PG16 bottom
- [ ] **20B** 20mm bottom
- [ ] **16S** PG16 side
- [ ] **20S** 20mm side
- [ ] **25S** 25mm bottom

Options
Ballasting[14]
- [ ] **GEB** Electronic Ballast
- [ ] **MLEBAD**[15] Analog Dimming Ballast

Listing
- [ ] **IEC** International Electronic Commission

Model
- [ ] **M9410** Round
- [ ] **M9430** Square

Lamp Type
Low Voltage
- [ ] **M50** MR16 GX5.3 base
- [ ] **M75** MR16 GX5.3 base
- [ ] **P3650ILV** PAR36 screw terminal base
- [ ] **P3675ILV** PAR36 screw terminal base

Incandescent
- [ ] **P2050I** PAR20 E27 base
- [ ] **P3050I** PAR30 E27 base
- [ ] **P3075I** PAR30 E27 base
- [ ] **100Q** T4, mini-can

Fluorescent
- [ ] **18TRT** Triple Tube GX24q2 base
- [ ] **26TRT** Triple Tube GX24q3 base
- [ ] **32TRT** Triple Tube GX24q3 base

MH
- [ ] **20CMT4**[2] T4 G8.5 base
- [ ] **35CMT4**[2] T4 G8.5 base
- [ ] **35CMT6** T6 G12 base
- [ ] **70CMT4** T4 G8.5 base
- [ ] **70CMT6** T6 G12 base
- [ ] **P2035CM** PAR20 E27 base
- [ ] **P3035CM** PAR30 E27 base
- [ ] **P3070CM** PAR30 E27 base

Lens
- [ ] **FLC** Flat Lens Clear
- [ ] **FLC5**[8] Flat Lens Clear, 5° axial
- [ ] **FLC10** Flat Lens Clear, 10° tilt
- [ ] **FLC20** Flat Lens Clear, 20° tilt
- [ ] **FLF** Flat Lens Frosted
- [ ] **FLF5**[9] Flat Lens Frosted, 5° axial
- [ ] **FLCAS** Flat Lens Clear, Anti-Slip
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- [ ] **WWL** Wall Wash Louver

External[10, 13]
- [ ] **GS** Glare Shield
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- [ ] **RG**[12] Rock Guard

Trims[10,13]
- [ ] **BTR** Bronze Round
- [ ] **BTS** Bronze Square
- [ ] **STR** Stainless Round
- [ ] **STS** Stainless Square

Lamp
- [ ] **LP** Lamp included

Finish[16]
- [ ] **BL** Black
- [ ] **BZ** Bronze
- [ ] **DDB** Dark Bronze
- [ ] **DNA** Natural Alum.
- [ ] **GN** Green
- [ ] **GR** Gray
- [ ] **SND** Sand
- [ ] **STG** Steel Gray
- [ ] **TVG** Terra Verde Green
- [ ] **WH** White
- [ ] **CF** Custom Finish

M9400 Series Assembly consists of the following individual component parts:	
MRIS94	Rough-In Housing
MFS94	Finishing Section
MACS	Lamp Module
MHSL94	Ballast Module

Notes:
[1] Not Available with M9430 square model.
[2] Lamps available with GEB or MLEBAD electronic , MVOLT (120V-277V 50/60 HZ) ballast only.
[3] Available for Low Voltage lamps only. Remote 12V power supply required (sold separately).
[4] MVOLT is standard on all Fluorescent lamps and MH lamps with GEB or MLEBAD ballast option.
[5] Not all distributions are valid with all lamp types, consult lamp manufacturers' specifications.
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[7] ASY distribution available with Fluorescent lamps only.
[8] FLC5 lens standard with WWD distribution using Fluorescent Lamps.
[9] FLF5 lens standard with WWD distribution using MH or incandescent lamps.
[10] Accessories are mutually exclusive, choose one only.
[11] ISS available with T6, and T4 lamps only. Not available with WWD distribution.
[12] Not available with CLC or CLF convex lens.
[13] Accessory not available with SS door material.
[14] Ballast options available with MH lamps only.
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[16] Door material finish is natural cast aluminum (A) or cast bronze (B) unless specified. Stainless steel (SS) door available with brushed finish standard.

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