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1.5" ProTools Downlights

Driver Informational Chart

Prefix R = Remote

Driver	Driver Wattage	Control Protocol	Dimming Level	Fixtures/Driver Medium Power 9.1W@500mA	Housing (Integral)	Housing (Remote)
S010/RS010	22W	0-10V	1%	1 – 2	NC - IC - CP	LP - IC - CP
RS010	50W	0-10V	1%	1 – 3	-	LP - IC - CP
RS010*	100W	0-10V	1%	1 – 6*	-	LP - IC - CP
D010/RD010	22W	0-10V	0.1%	1 – 2	NC - IC - CP	LP - IC - CP
RD010	50W	0-10V	0.1%	1 – 4	-	LP - IC - CP
RD010*	100W	0-10V	0.1%	1 – 8*	-	LP - IC - CP
SPH/RSPH	20W	Triac/ELV	3%	1 – 2	IC - CP	LP - IC - CP
PEQ0/RPEQ0	20W	EcoSystem	0.1%	1 – 2	NC - IC - CP	LP - IC - CP
D2S/RD2S	22W	DALI-2 (DT6)	0.1%	1 – 2	NC - IC - CP	LP - IC - CP
RD2S*	50W	DALI-2 (DT6)	0.1%	1 – 4*	-	LP - IC - CP
RD2S*	100W	DALI-2 (DT6)	0.1%	1 – 6*	-	LP - IC - CP
EM	6W	Emergency	–	1	NC - IC - CP	LP - IC - CP
EM	7W, 12W	Emergency	–	1	-	LP - IC - CP

NOTES: An “integral” driver must be installed in an accessible ceiling. Specify remote driver for all non-accessible ceiling types.

Items with an asterisk (*) indicates a driver with multiple outputs. Fixture quantity shall be split evenly across driver outputs to ensure proper operation.

1.5" ProTools Downlights

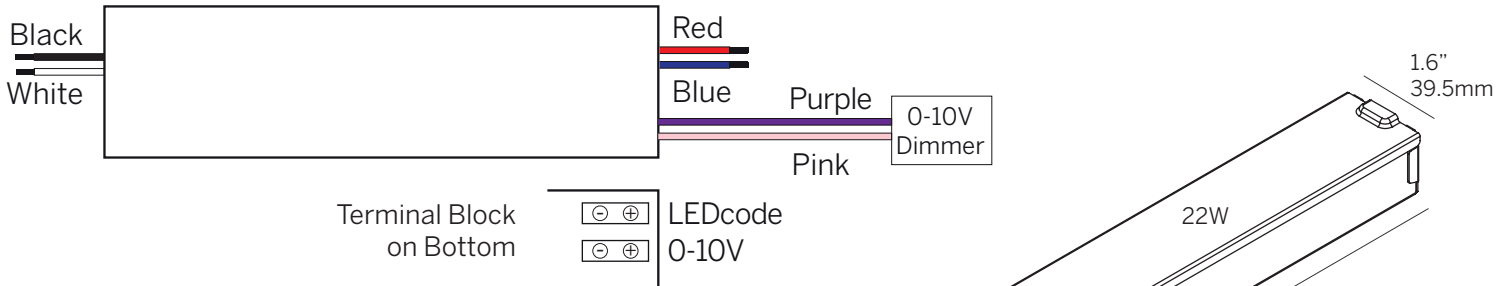
Driver/Wiring Information

inter•lux

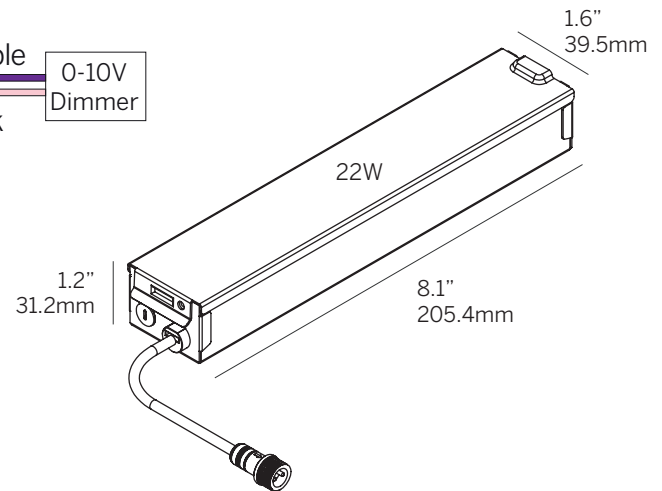
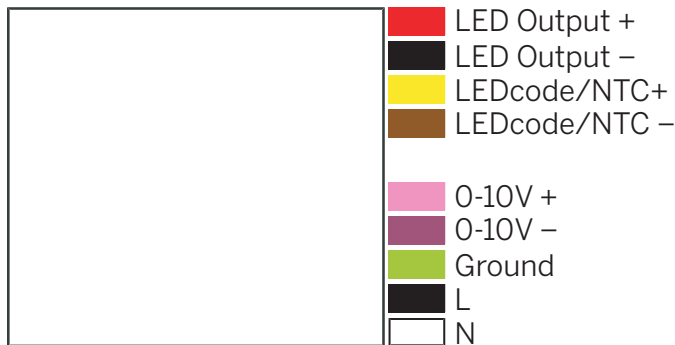
3/14

S010/RS010 = eldoLED 0-10V 1% dimming, 120-277V
22W

IMPORTANT: All fixtures must be wired in series!



50W

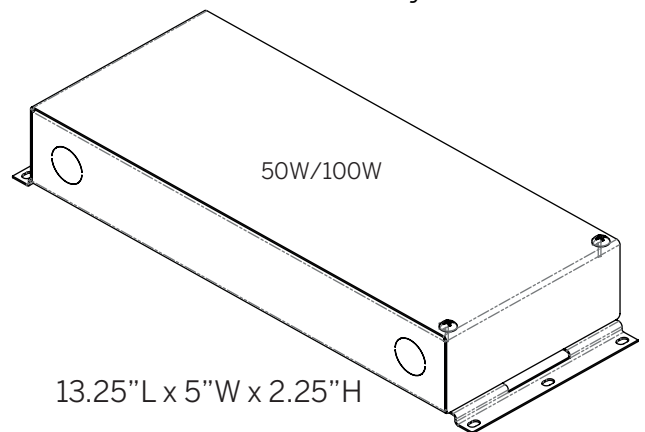
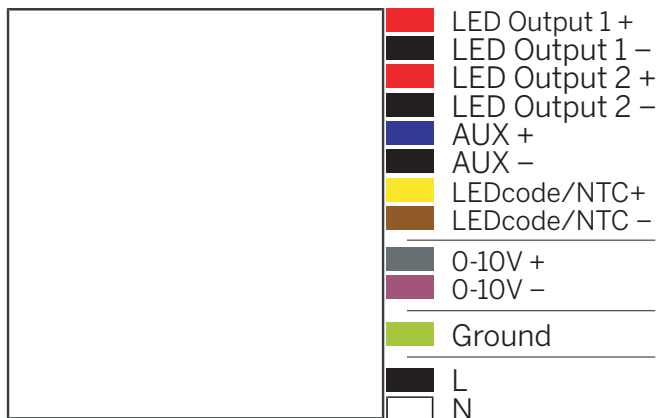


Driver Box has (1) knock-out on end opposite power cable for Trade Size ½ conduit (Ø7/8")

Dry Location Enclosures

surface mount
in any orientation

100W



Driver Box has (4) knock-outs: (2) on each side, Trade Size ½ conduit (Ø7/8")

Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

¹Actual distance must be calculated by installer. Must comply with NEC code.

1.5" ProTools Downlights

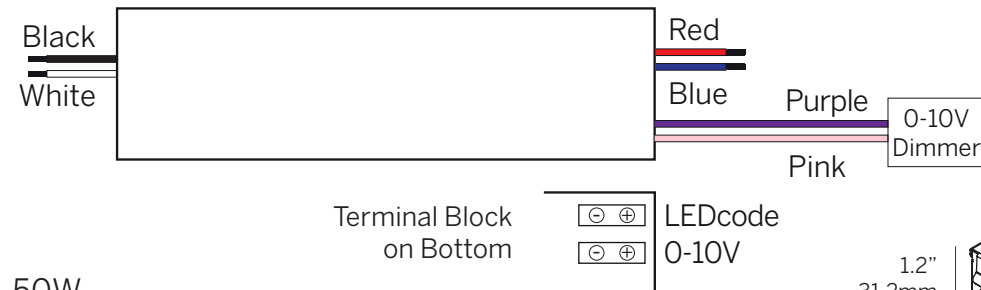
Driver/Wiring Information

inter•lux

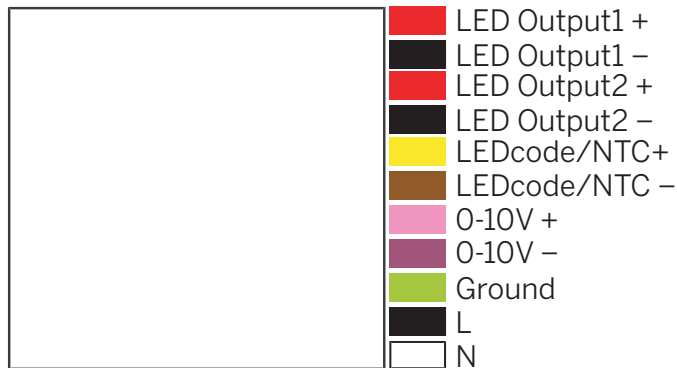
4/14

D010/RD010 = Remote eldoLED 0.1% 0-10V dimming, 120-277V
22W

IMPORTANT: All fixtures must be wired in series!



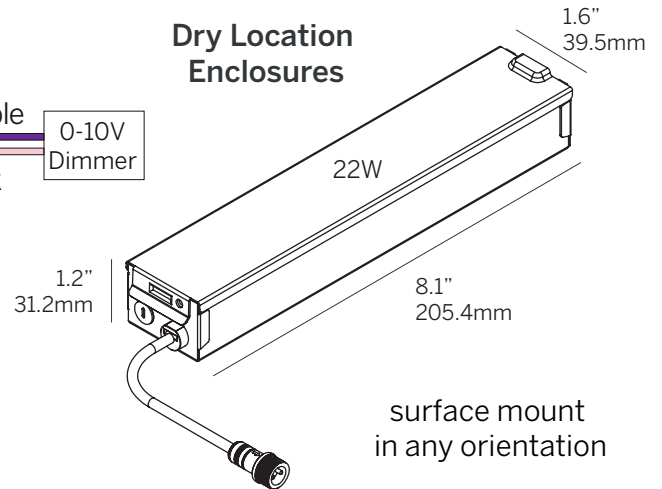
50W



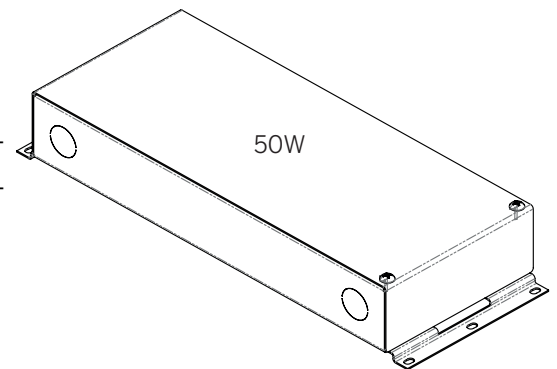
100W



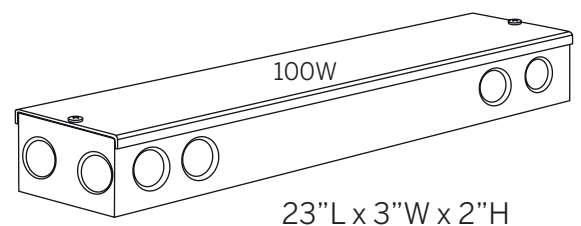
Dry Location Enclosures



Driver Box has (1) knock-out on end opposite power cable for Trade Size ½ conduit (Ø7/8")



Driver Box has (4) knock-outs: (2) on each side, Trade Size ½ conduit (Ø7/8")



Driver Box has (12) knock-outs: (4) on each long side, (2) at each end for Trade Size ½ conduit (Ø7/8")

Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

¹Actual distance must be calculated by installer. Must comply with NEC code.

1.5" ProTools Downlights

0-10V Compatible Dimming Information

Compatible 0-10V dimmers and switches*

DIMMER MANUFACTURER	WEBSITE	TYPE	RECOMMENDED DIMMING CURVE
Busch-Jaeger	www.busch-jaeger.de	2112U-101	Logarithmic
Jung	www.gb.jung.de	240-10	Logarithmic
Leviton Lighting Controls	www.leviton.com	IllumaTech - IP710-DLX	Logarithmic
Lightolier Controls	www.lightolier.com	ZP600FAM120	Logarithmic
Lutron Electronics	www.lutron.com/LEDtool	Nova T - NTFTV Diva - DDTV Diva - NDTV	Linear Linear Linear
Merten	www.merten.de	5729	Logarithmic
Pass & Seymour	www.legrand.us	CD4FB-W	Logarithmic
The Watt Stopper	www.wattstopper.com	DCLV1	Logarithmic
Sensor Switch	www.sensorswitch.com	nIO EZ	Linear
Synergy	www.synergylightingcontrols.com	ISD BC	Logarithmic

Compatible 0-10V dimming control systems*

CONTROL MANUFACTURER	WEBSITE	TYPE	RECOMMENDED DIMMING CURVE
Lutron Electronics	www.lutron.com/LEDtool	GraphicEye - GRX-TVI w GRX3503 Energy Savr Node - QSN-4T16-S TVM2 Module Linear	Linear Linear Linear
Crestron	www.crestron.com	GLX-DIMFLV8 GLXP-DIMFLV8 GLPAC-DIMFLV4-* GLPAC-DIMFLV8-* GLPP-DIMFLVEX-PM GLPP-1DIMFLV2EX-PM GLPP-1DIMFLV3EX-PM L DIN-AO8 DIN-4DIMFLV4 CLS-EXP-DIMFLV CLCI-1DIMFLV2EX	Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic Logarithmic
ABB	www.abb.com/KNX	IllumaTech - IP710-DLX	Logarithmic

*Compatibility with dimmers and controls systems not included in the above can be verified upon request. Please contact us and provide data sheets for the specified dimmer or control system.

1.5" ProTools Downlights

Phase & Lutron EcoSystem Driver/Wiring Information

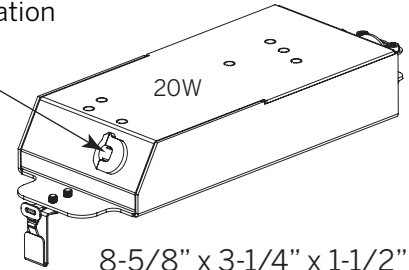
SPH/RSPH = Phase (2-wire) 3% dimming, 120V only

IMPORTANT: All fixtures must be wired in series!



Dry Location Enclosure
surface mount
in any orientation

Strain Relief
for Low Voltage
Cable



8-5/8" x 3-1/4" x 1-1/2"
(Includes Mounting Tab)

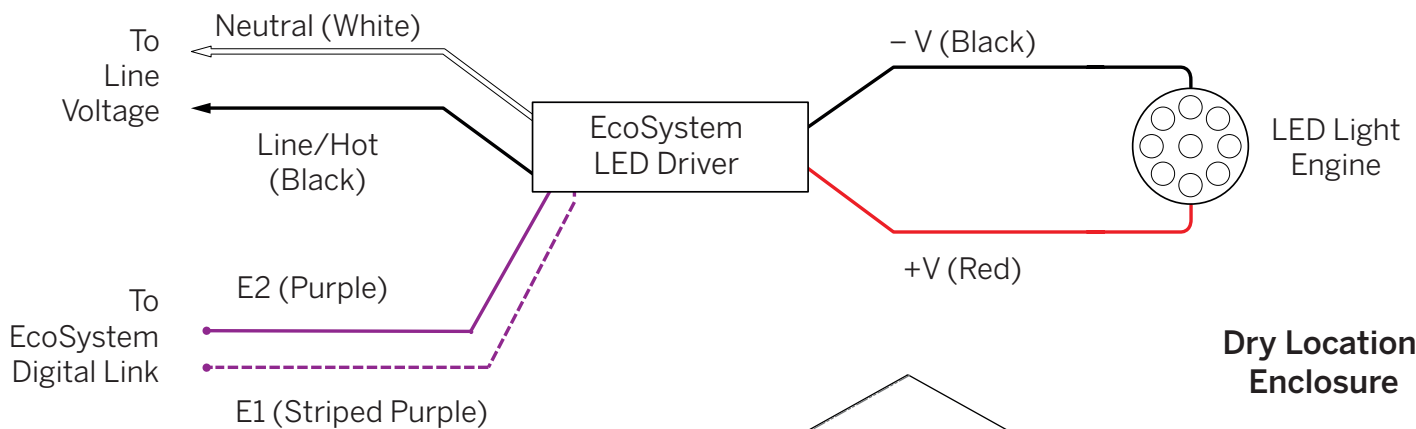
Driver Box has (2) knockouts for
Trade Side 1/2 conduit (Ø7/8"),
one of which has cable clamp

Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

¹Actual distance must be calculated by installer. Must comply with NEC code.

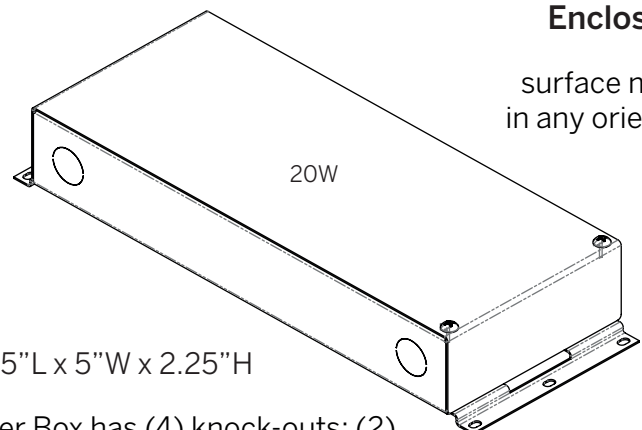
RPEQ0 = Remote Lutron Hi-Lume Premier 0.1% EcoSystem, 120-277V

IMPORTANT: All fixtures must be wired in series!



Dry Location Enclosure

surface mount
in any orientation



13.25" L x 5" W x 2.25" H

Driver Box has (4) knock-outs: (2)
on each side, Trade Size 1/2 conduit
(Ø7/8")

Continued Next Page

Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

¹Actual distance must be calculated by installer. Must comply with NEC code.

1.5" ProTools

Lutron EcoSystem Compatible Dimming and DALI Driver/Wiring Information

RPEQ0 = Remote Lutron Hi-Lume Premier 0.1% EcoSystem, 120-277V
(Continued)

IMPORTANT: All fixtures must be wired in series!

Compatible Controls for Lutron Hi-Lume Premier 0.1% EcoSystem, 120-277V

Lutron EcoSystem Compatible Controls	Part Number		Drivers per Control		
	120 V~	277 V~	EcoSystem Loops per Control	Drivers per EcoSystem Loop	Maximum Drivers per Control
PowPak Dimming Modules	RMJ-ECO32-DV-B		1	32	32
	FCJ/FCJS-ECO ¹		1	3	3
Energi Savr Node	QSN-1ECO-S	N/A	1	64	64
	QSN-2ECO-S		2	64	128
GRAFIK Eye QS / HomeWorks QS control unit	QSGRJ-_E (wireless) QSGR-_E	N/A	1	64	64
Quantum Hub	QP2-__2C	N/A	2	64	128
	QP2-__4C		4	64	256
	QP2-__6C		6	64	384
	QP2-__8C		8	64	512

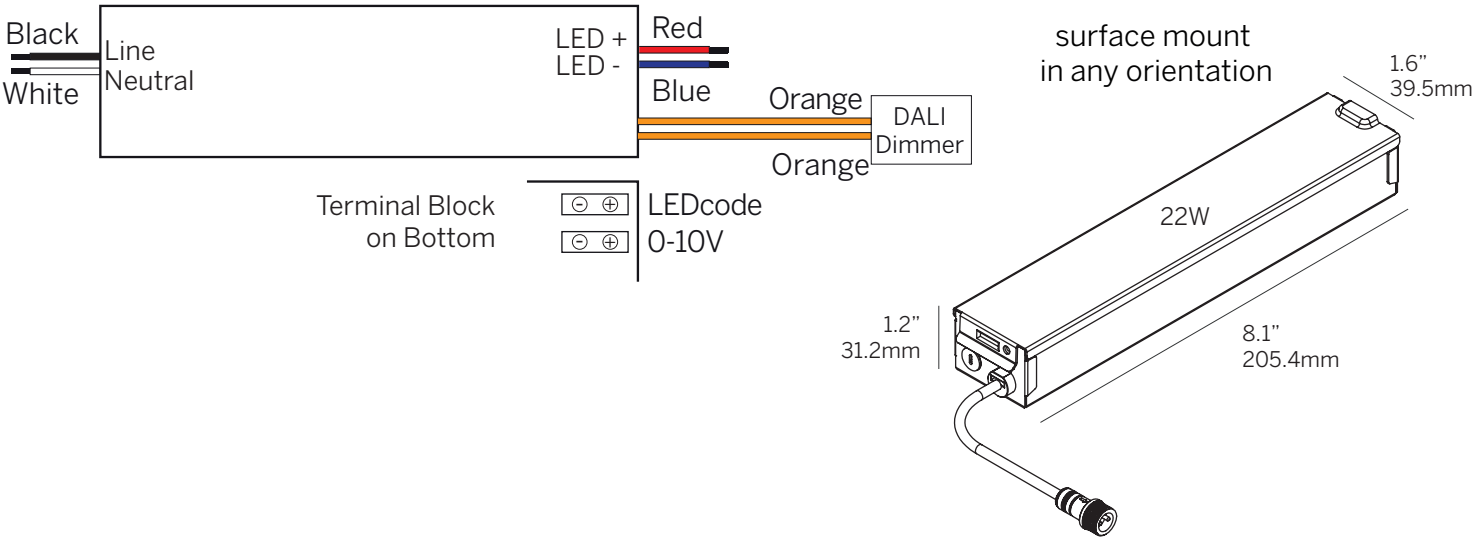
¹ All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note #556 (048556) at www.lutron.com

D2S/RD2S = Remote eldoLED DALI-2 (DT6) for Static White
0.1% dimming, 120-277V

IMPORTANT: All fixtures must be wired in series!

Dry Location Enclosure

surface mount
in any orientation



Driver Box has (1) knock-out on end opposite power cable for Trade Size ½ conduit (Ø7/8")

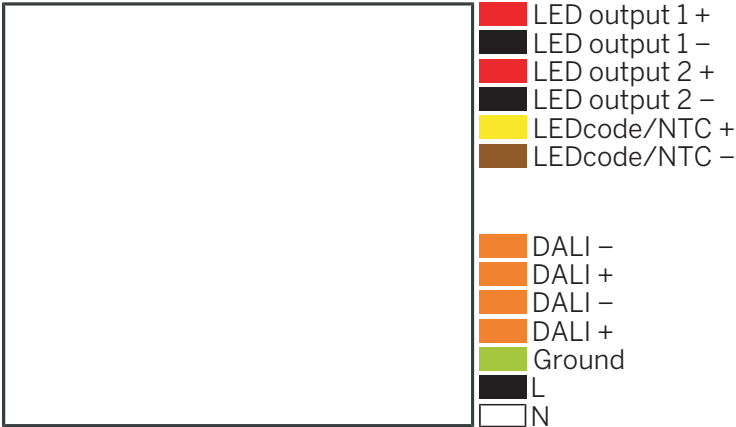
1.5" ProTools

DALI Driver/Wiring Information (continued)

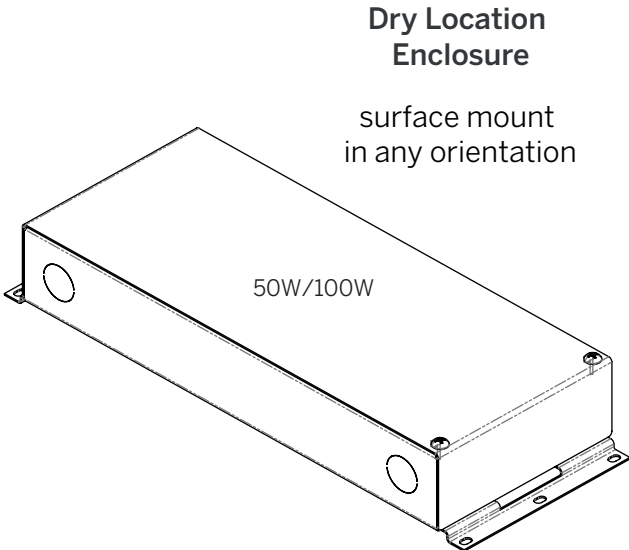
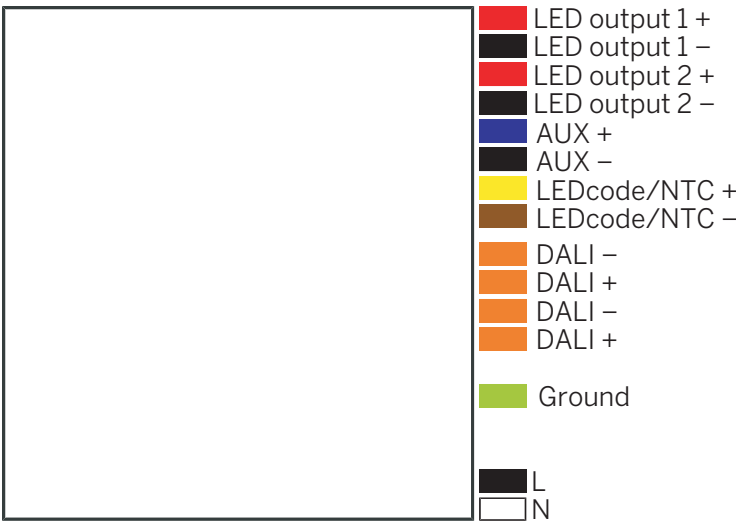
D2S/RD2S = Remote eldoLED DALI-2 (DT6) for Static White
0.1% dimming, 120-277V

IMPORTANT: All fixtures must be wired in series!

50W



100W



Dry Location Enclosure
surface mount
in any orientation

13.25" L x 5" W x 2.25" H

Driver Box has (4) knock-outs: (2) on each side, Trade Size 1/2 conduit (Ø7/8")

Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm²)	46 ft (14 m)
AWG 19 (0.65 mm²)	59 ft (18 m)
AWG 18 (0.82 mm²)	72 ft (22 m)
AWG 17 (1.04 mm²)	92 ft (28 m)
AWG 16 (1.31 mm²)	118 ft (36 m)

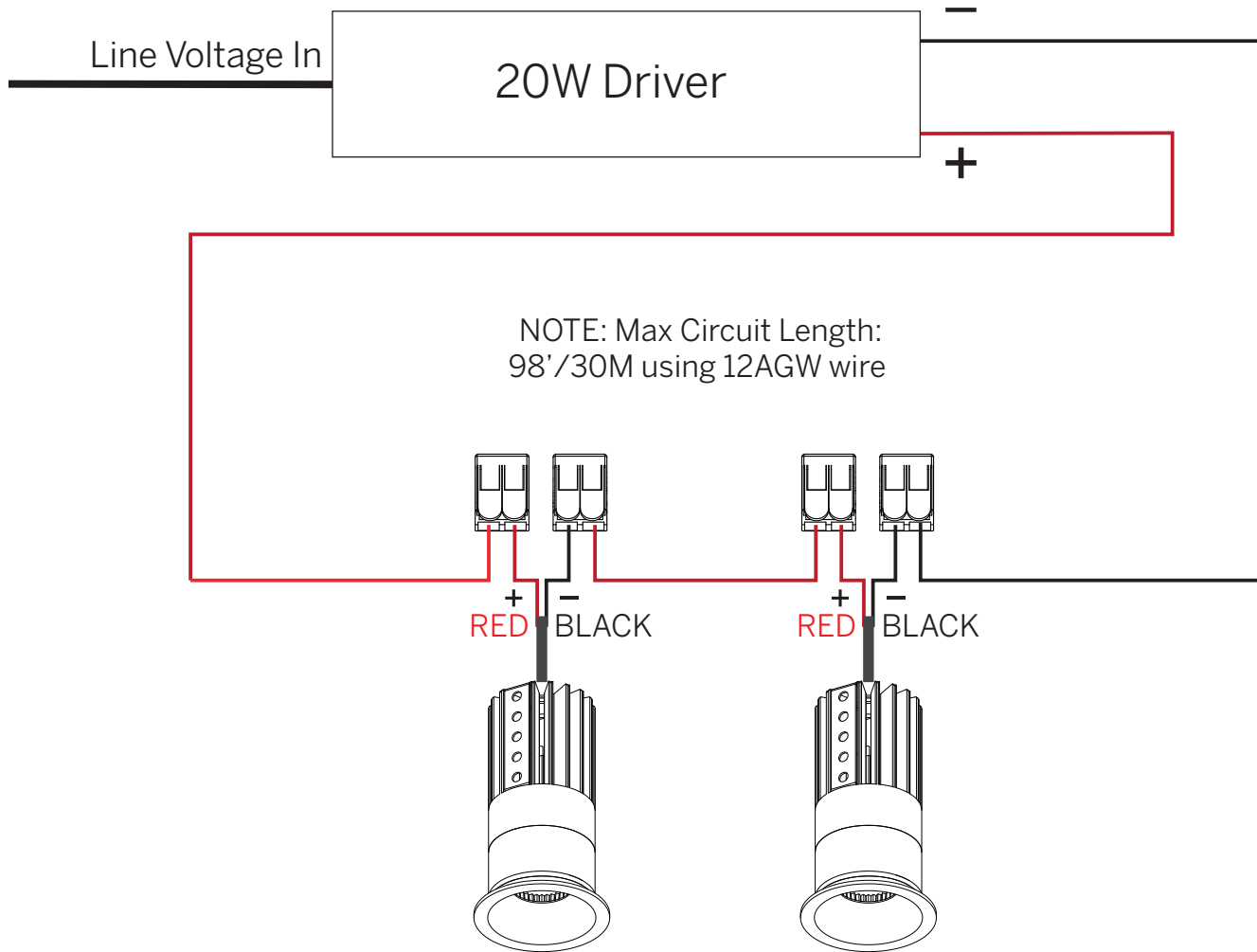
¹Actual distance must be calculated by installer. Must comply with NEC code.

1.5" ProTools Series Wiring Diagram

Multiple Fixtures/One Driver

For Use With or Without Landing Pan

IMPORTANT: All fixtures must be wired in series!



NOTE: Wago™ Connectors illustrated above not included with fixture.

Refer to chart on pages 2 for total
number of luminaires per driver

1.5" ProTools

Series Wiring Diagram

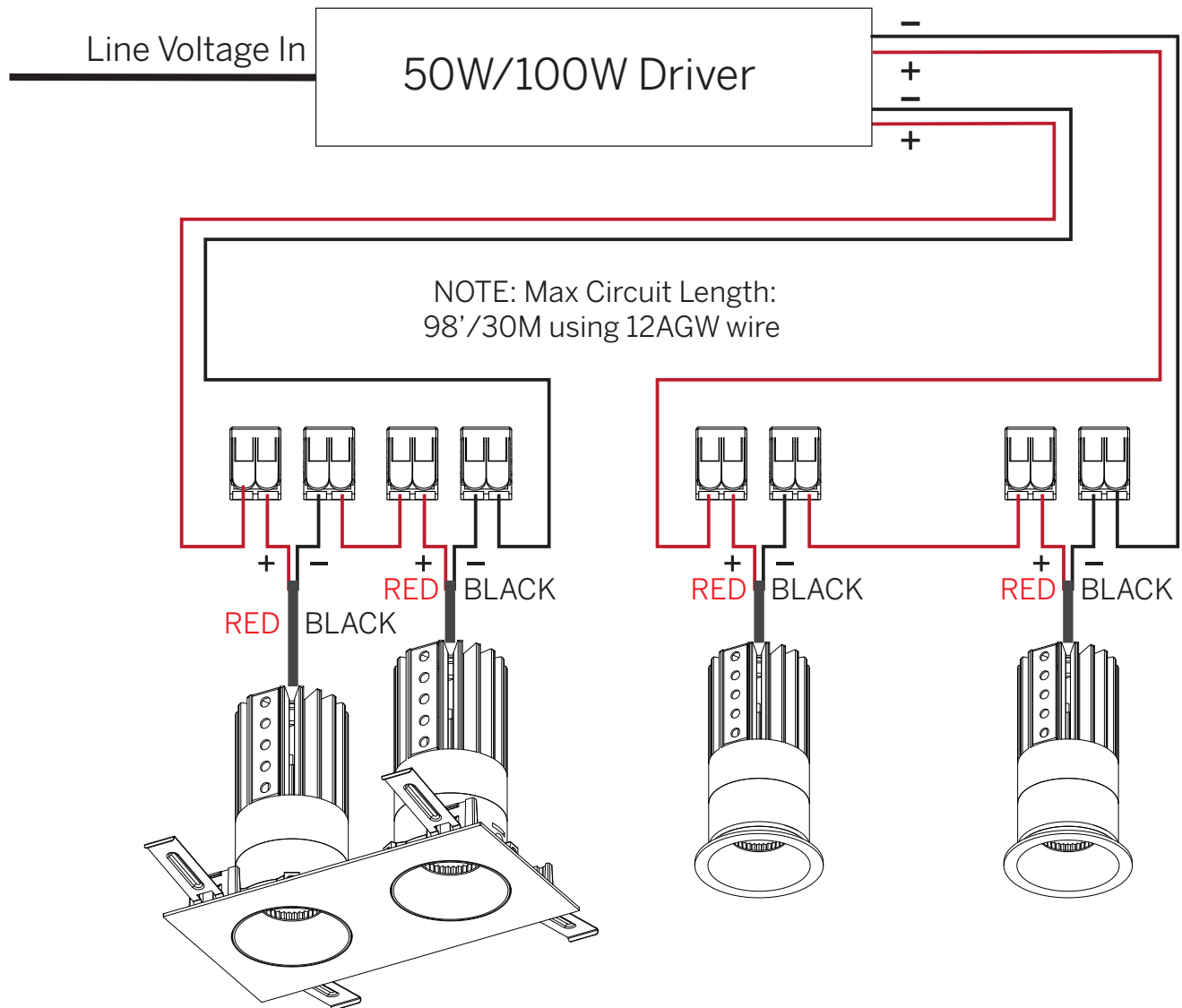
inter•lux

10/14

Multiple Fixtures/One Driver, Multiple Outputs

For Use with or without Landing Pan

IMPORTANT: All fixtures must be wired in series!

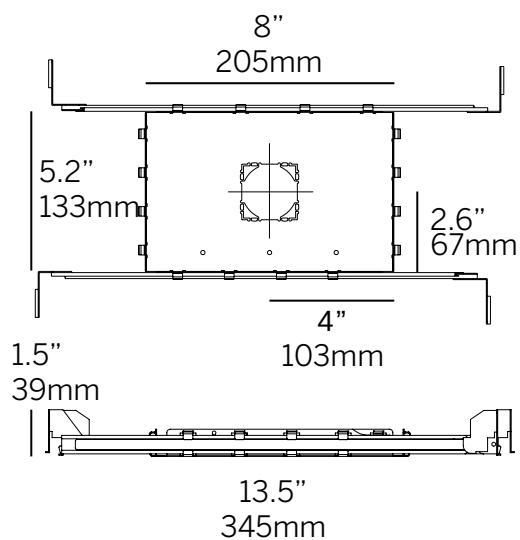


NOTE: Wago™ Connectors illustrated above not included with fixture.

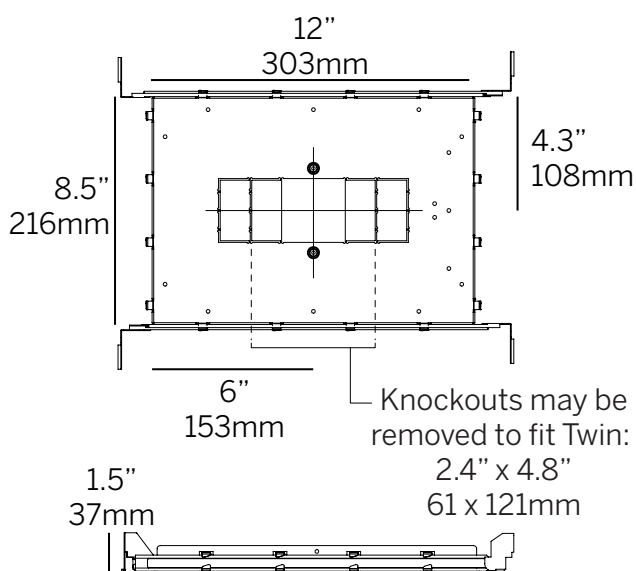
Refer to chart on pages 2 for total
number of luminaires per driver

1.5" ProTools Downlights

Housing Information



Hanger bars adjustable from 13.6 to 24.5" (345 to 622mm)



Landing Pan

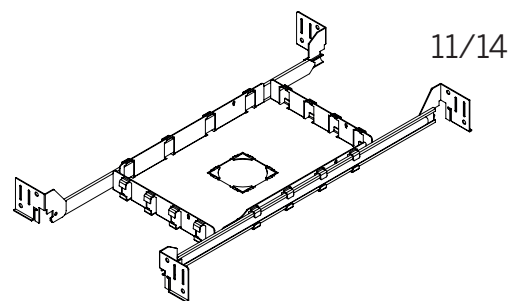
- Galvanized steel constructions
- Housing compatible with:
 - Round/square inserts for plaster and bezel trims
 - Twin trim
- Supplied with hanger bars that adjust between 13.6" and 24.5"

Driver (Remote only)

- RS010 = Standard eldoLED 1%, 0-10V dimming, 120-277V
- RD010 = Standard eldoLED 0.1%, 0-10V dimming, 120-277V
- RSPH = Triac/ELV (2-wire) 3% dimming, 120V *only*
- RPEQ0 = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- RD2S = eldoLED DALI-2 0.1% dimming, 120-277V
- EM= Iota 7W or 12W Emergency Driver, 120-277V

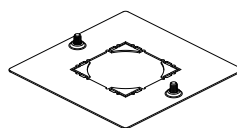
Refer to the chart on page 2 for more information on Housing/Driver compatability.

Landing Pan



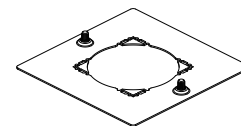
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Round/Square Insert for Bezel Trim



Round Cutout: 1.75"/45mm
Square Cutout: 1.8"/46mm

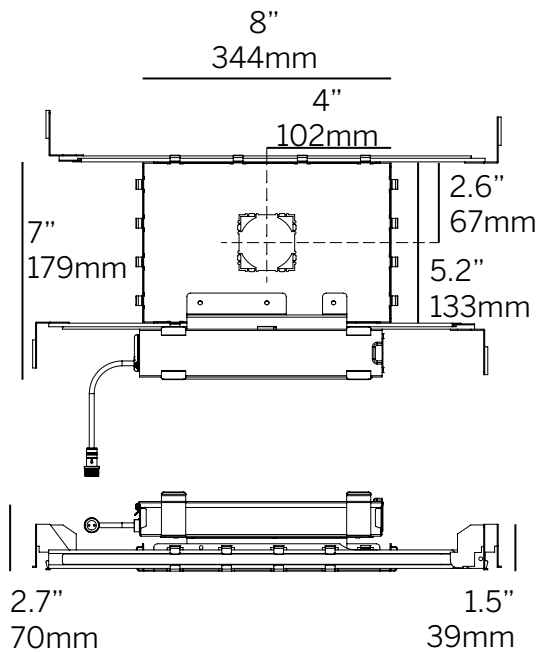
Round/Square Insert for Plaster Trim



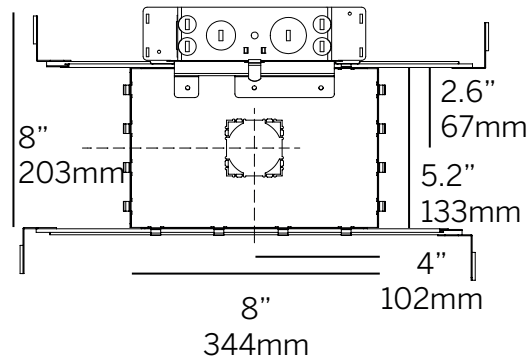
Round Cutout: 2.1"/54mm
Square Cutout: 2"/50mm

1.5" ProTools Downlights

Housing Information

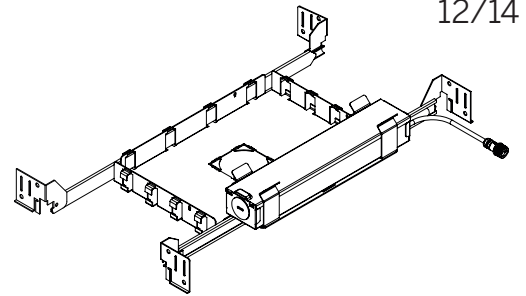


**Housing for
S010, D010, D2S**



**Housing for
PEQ0 only**

New Construction



12/14

New Construction

- New Construction housing for accessible ceilings only
- Housing compatible with round/ square inserts for plaster/bezel
- Integral junction box and driver accessible from adjacent accessible ceiling
- Supplied with hanger bars that adjust between 13.6" and 24.5"
- Galvanized steel constructions

Driver

- S010 = eldoLED 1%, 0-10V dimming, 120-277V
- D010 = eldoLED 0.1%, 0-10V dimming, 120-277V
- PEQ0 = Hi Lume Premier EcoSystem 0.1% dimming, 120-277V
- D2S = standard eldoLED 0.1% DALI-2 dimming, 120-277V
- EM= Bodine 6W Emergency Driver, 120-277V
- EM= Iota 7W or 12W Emergency Driver, 120-277V (Remote only)

Refer to the chart on page 2 for more information on Housing/ Driver compatability.

Twin Trim and Emergency Driver

Housings shown next page

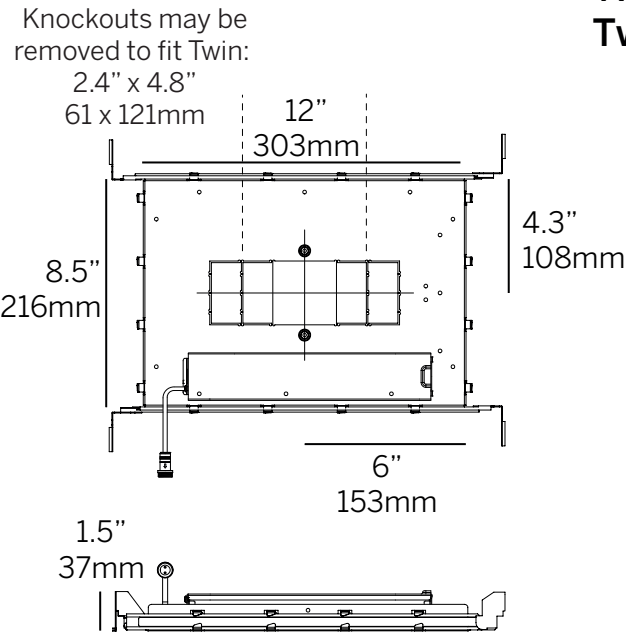
1.5" ProTools Downlights

Housing Information

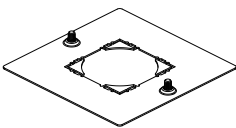
New Construction

13/14

New Construction Twin Trim Housing

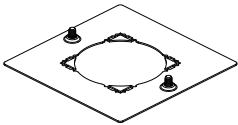


Round/Square Insert
for Bezel Trim



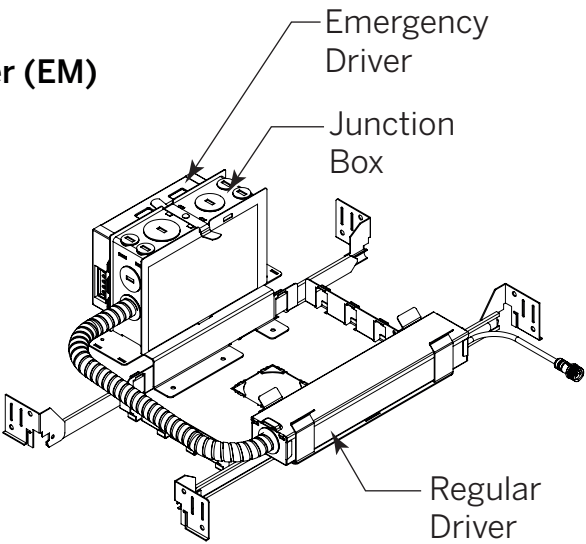
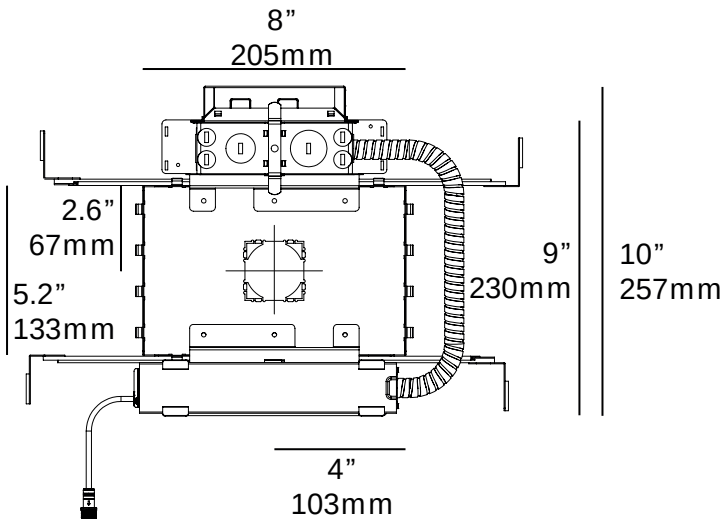
Round Cutout: 1.75"/45mm
Square Cutout: 1.8"/46mm

Round/Square Insert
for Plaster Trim



Round Cutout: 2.1"/54mm
Square Cutout: 2"/50mm

Emergency Driver (EM)



NOTE: When the PEQO driver is specified with the EM Emergency Driver, a second junction box will be added.

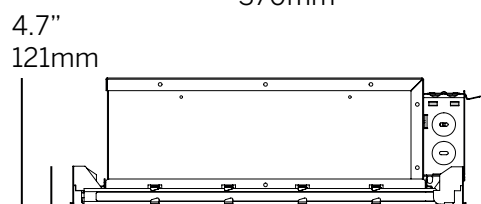
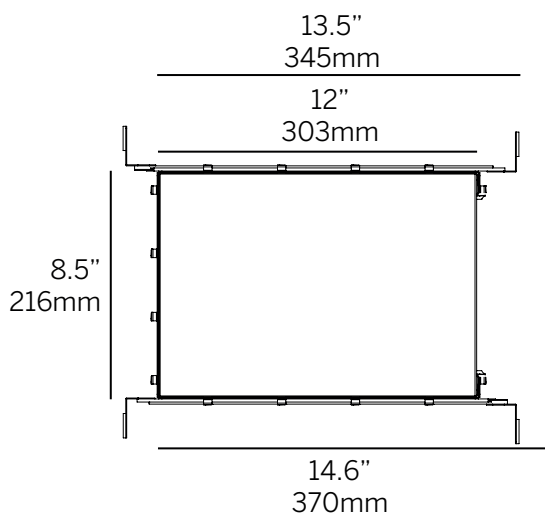
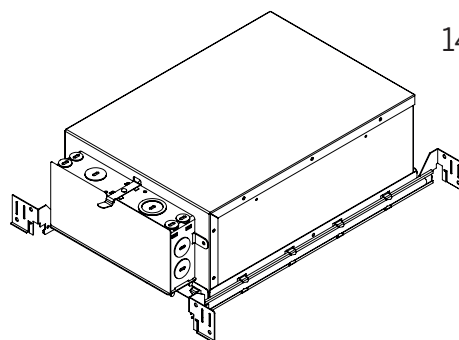
1.5" ProTools Downlights

Housing Information

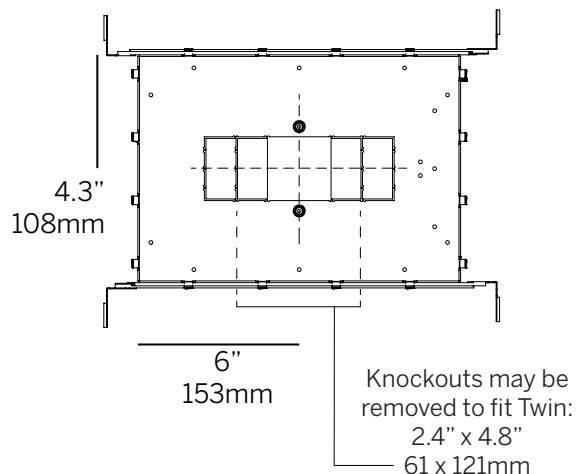
Insulated Ceiling

Chicago Plenum

14/14



Hanger bars adjustable from 13.6 to 24.5" (345 to 622mm)



IC/CP

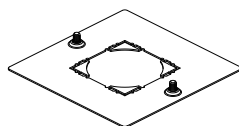
- IC/CP housing for accessible ceilings only
- Housing compatible with:
 - Round/square inserts for plaster and bezel trims
 - Twin trim
- Galvanized steel construction
- Fully caulked corners
- Gasketed mating plaster frame surfaces and of integral junction box
- Integral junction box for wire splice from external power source (optional)
- Supplied with hanger bars that adjust between 13.6" and 24.5"
- Anti-vibration embossing
- Designed for an airflow rate not to exceed 2 CFM

Driver

- S010/RS010 = eldoLED 1%, 0-10V dimming, 120-277V
- D010/RD010 = eldoLED 0.1%, 0-10V dimming, 120-277V
- SPH/RSPH = Triac/ELV 3% dimming, 120V *only*
- PEQ0/RPEQ0 = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- D2S/RD2S = eldoLED DALI-2 0.1% dimming, 120-277V
- EM= Bodine 6W Emergency Driver, 120-277V
- EM= Iota 7W or 12W Emergency Driver, 120-277V (Remote only)

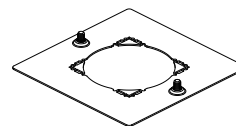
Refer to the chart on page 2 for more information on Housing/Driver compatibility.

Round/Square Insert for Bezel Trim



Round Cutout: 1.75"/45mm
Square Cutout: 1.8"/46mm

Round/Square Insert for Plaster Trim



Round Cutout: 2.1"/54mm
Square Cutout: 2"/50mm

NOTE: When the PEQO driver is specified with the EM Emergency Driver, a second junction box will be added.