

Driver Informational Chart.....p. 2

0-10V Driver/Wiring Information.....p. 3

0-10V Compatible Dimming Information....p. 4

Phase & Lutron EcoSystem
Driver/Wiring Information.....p. 5

Lutron EcoSystem Compatible Dimming
and DALI Driver/Wiring Information.....p. 6

Series Wiring Diagrams.....pp. 7, 8

Housing Information.....pp. 9, 10

4" ProTools Downlights

Driver Informational Chart

4" ProTools Downlight (Shallow)

Driver	Driver Wattage	Control Protocol	Dim Level	Fixtures/Driver			Housing (Integral)	Housing (Remote)
				Low 11W @ 350mA	Medium 15W @ 500mA	High 22.5W @ 700mA		
S010	30W	0-10V	1%	1	1	1	LP - NC - IC - CP	–
D010	30W	0-10V	0.1%	1	1	1	LP - NC - IC - CP	–
SPH	20W	Triac/ELV	3%	1	1	–	LP - NC - IC - CP	–
PEQ0	20W	EcoSystem	0.1%	1	1	–	LP - NC - IC - CP	–
D2S	30W	DALI-2 (DT-6)	0.1%	1	1	1	LP - NC - IC - CP	–
EM	6W	Emergency	–	–	1	–	LP - NC - IC - CP	–
EM	7W	Emergency	–	–	1	–	–	LP - NC - IC - CP

4" ProTools Downlight/Adjustable/Wall Wash

Driver	Driver Wattage	Control Protocol	Dim Level	Fixtures/Driver						Housing (Integral)	Housing (Remote)
				Low 5.7W @350mA	Medium 8.4W @500mA	High 12W @700mA	Extra High 18.6W @1050mA	Tunable White 9W @500mA	Warm Dim 9W @500mA		
S010	30W	0-10V	1%	1 - 2	1 - 2	1 - 2	1	–	1	LP - NC - IC - CP	–
D010	30W	0-10V	0.1%	1 - 2	1 - 2	1 - 2	1	–	1	LP - NC - IC - CP	–
SPH	20W	Triac/ELV	3%	1 - 2	1 - 2	1	–	–	1	LP - NC - IC - CP	–
PEQ0	20W	EcoSystem	0.1%	1 - 2	1 - 2	1	1	–	1	LP - NC - IC - CP	–
D2S	30W	DALI-2 (DT-6)	0.1%	1 - 2	1 - 2	1 - 2	1	–	1	LP - NC - IC - CP	–
D2T	30W	DALI-2 (DT-8)	0.1%	–	–	–	–	1 - 2	–	LP - NC - IC - CP	–
EM	6W	Emergency	–	–	1	–	–	–	–	LP - NC - IC - CP	–
EM	7W, 12W	Emergency	–	–	1	–	–	–	–	–	LP - NC - IC - CP

4" ProTools Downlights

0-10V Driver/Wiring Information

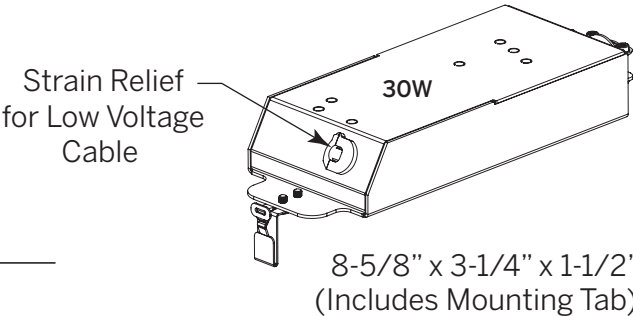
S010 = eldoLED 0-10V 1% dimming, 120-277V

30W

IMPORTANT: All fixtures must be wired in series!



Dry Location
Integral Enclosure



D010 = eldoLED 0-10V 0.1% dimming, 120-277V

30W



Driver Box has (2) knockouts for Trade Side ½ conduit (Ø7/8"), one of which has cable clamp

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.

4" 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 - DVTV Diva - NFTV	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-A08 DIN-4DIMFLV4 CLS-EXP-DIMFLV CLCI-1DIMFLV2EX	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.

4" ProTools Downlights

Phase & Lutron EcoSystem Driver/Wiring Information

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



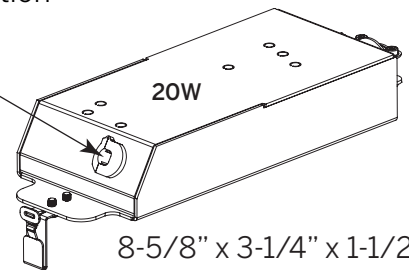
Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

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

Dry Location Integral Enclosure

surface mount
in any orientation

Strain Relief
for Low Voltage
Cable



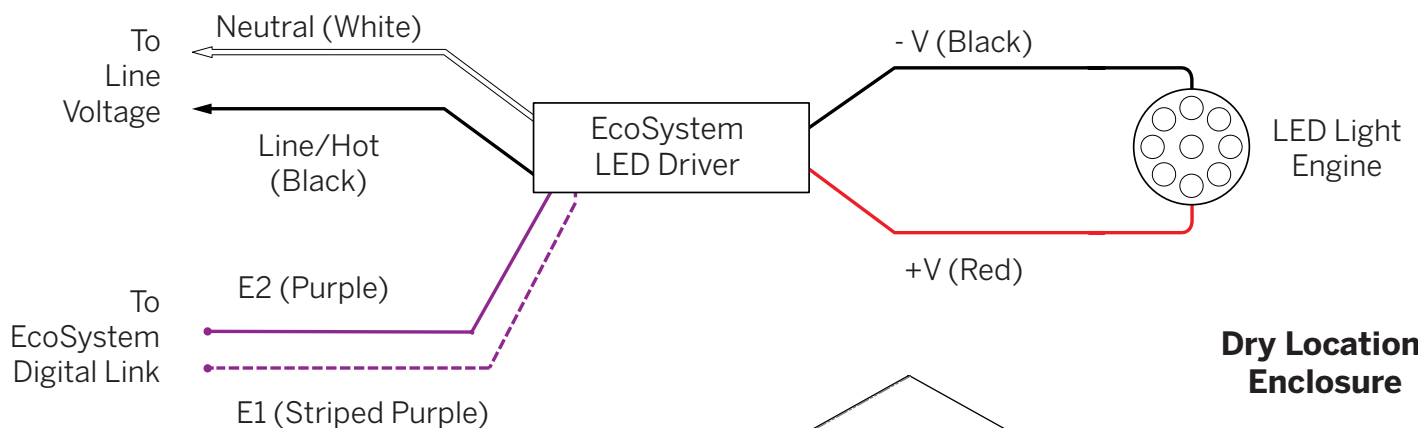
8-5/8" x 3-1/4" x 1-1/2"
(Includes Mounting Tab)

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

IMPORTANT: All fixtures
must be wired in series!

PEQ0 = Lutron Hi-Lume Premier 0.1% EcoSystem,
120-277V

IMPORTANT: All fixtures
must be wired in series!

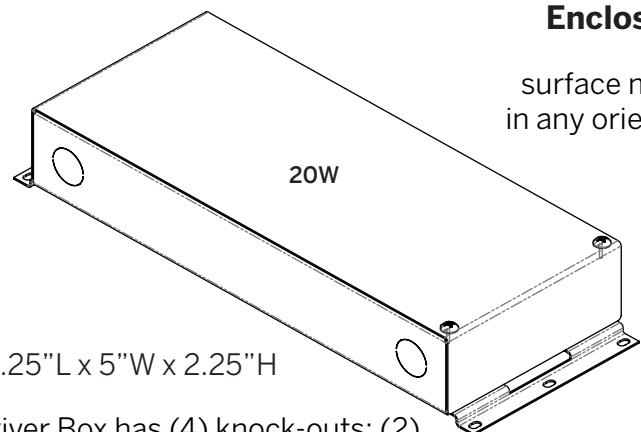


Wire Gauge	Maximum Wiring Distance ¹
AWG 20 (0.52 mm ²)	46 ft (14 m)
AWG 19 (0.65 mm ²)	59 ft (18 m)
AWG 18 (0.82 mm ²)	72 ft (22 m)
AWG 17 (1.04 mm ²)	92 ft (28 m)
AWG 16 (1.31 mm ²)	118 ft (36 m)

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

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")

4” ProTools Downlights

Lutron EcoSystem Compatible Dimming and DALI Driver/Wiring Information

inter•lux

6/11

PEQ0 = 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	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

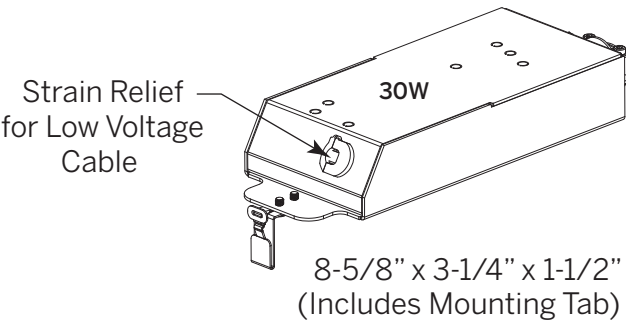
¹ All devices connected to one FCJ/FCJS-ECO will be controlled together. Devices will dim to the same level as the result of a control command. For more detail on adjusting low-end light level refer to Application Note #556 (048556) at www.lutron.com

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

IMPORTANT: All fixtures must be wired in series!

30W

Dry Location
Integral Enclosure
surface mount
in any orientation



Driver Box has (2) knockouts for Trade Side ½ conduit (Ø7/8"), one of which has cable clamp

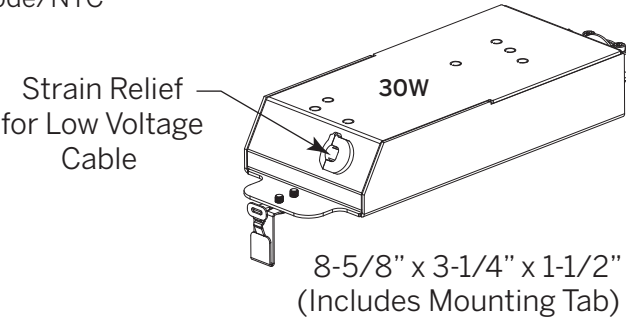
D2T = eldoLED DALI-2 (DT8) for Tunable White, 0.1% dimming, 120-277V

IMPORTANT: All fixtures must be wired in series!

30W



Dry Location
Integral Enclosure
surface mount
in any orientation



Driver Box has (2) knockouts for Trade Side ½ conduit (Ø7/8"), one of which has cable clamp

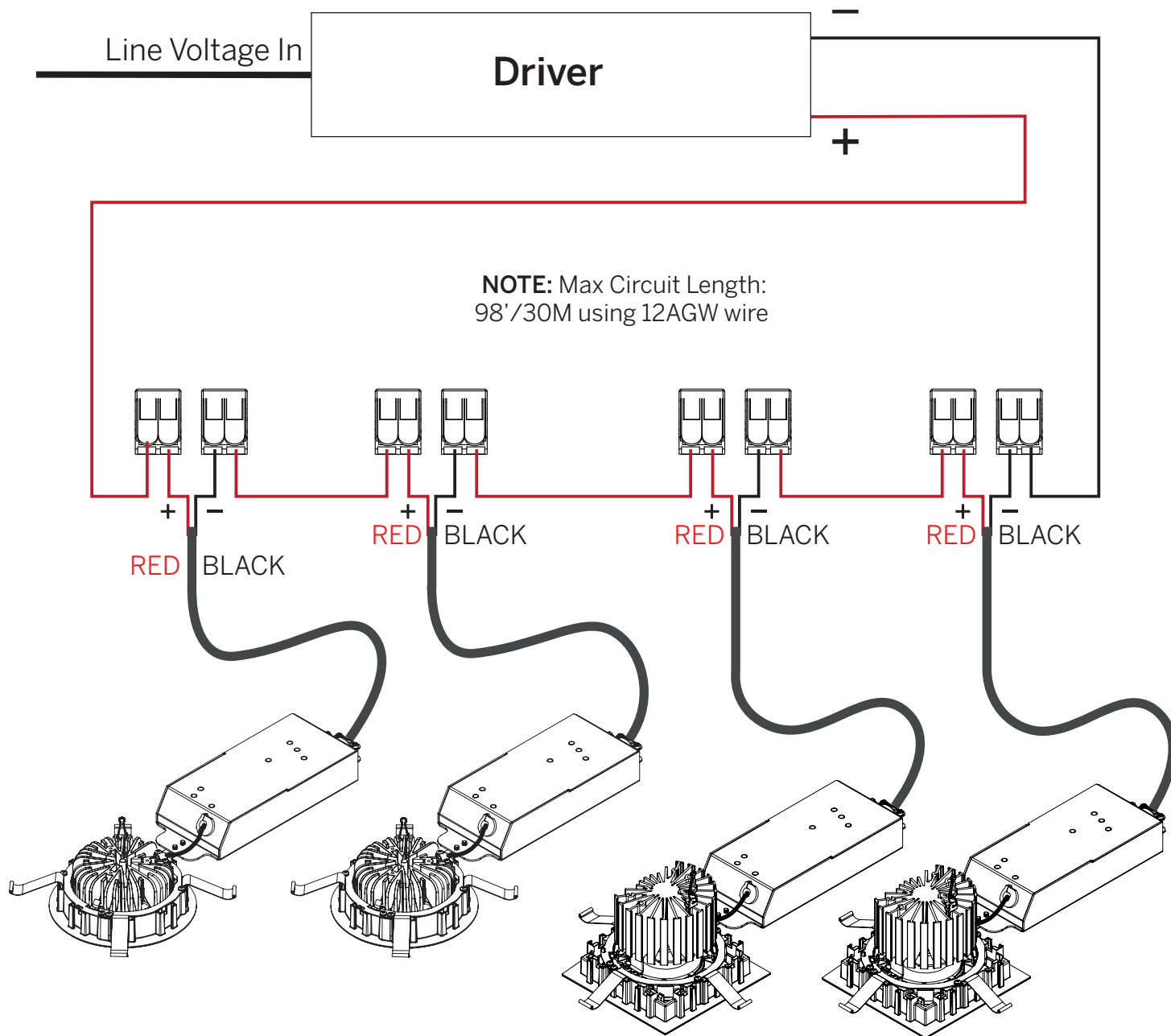
4" ProTools Downlights

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

4" ProTools Downlights

Series Wiring Diagram

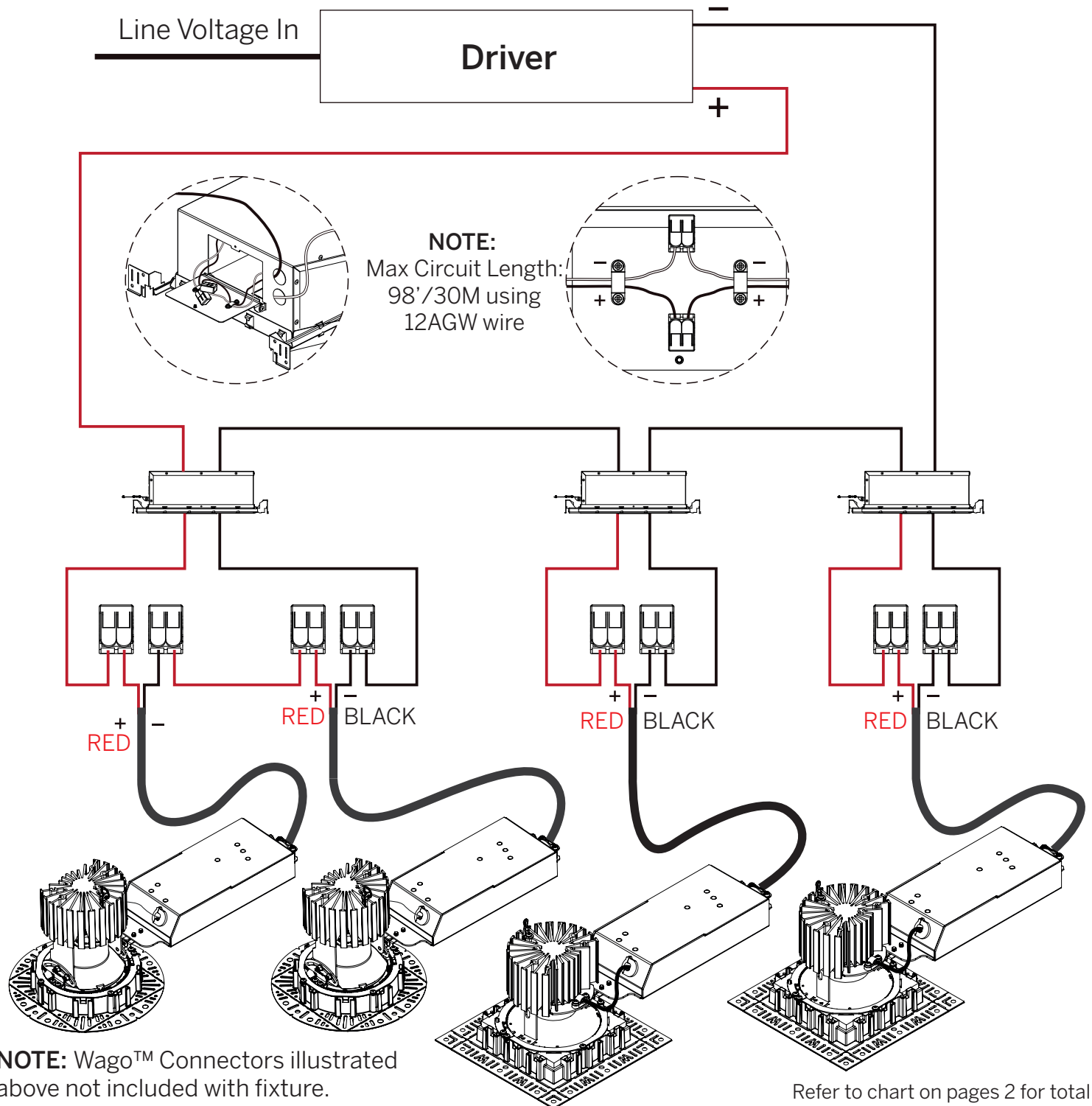
inter•lux

9/11

Multiple Fixtures/One Driver

For Use with Landing Pan and IC Box or Chicago Plenum

IMPORTANT: All fixtures must be wired in series!

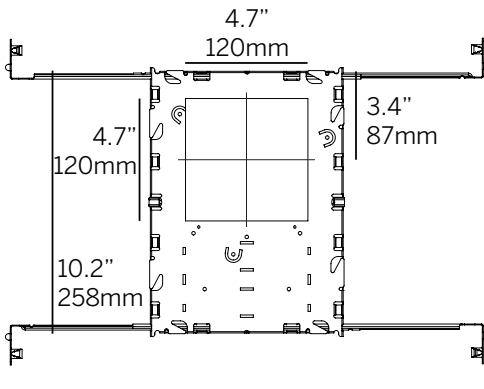
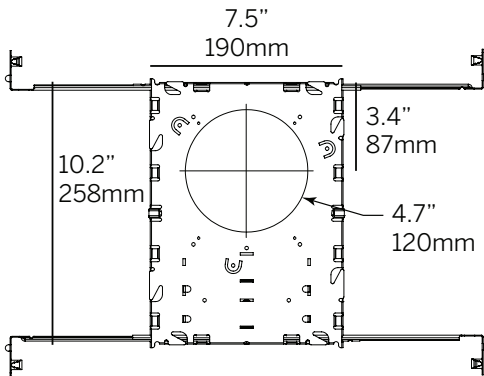


4" ProTools Downlights

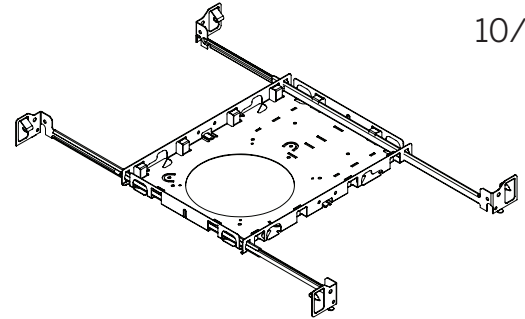
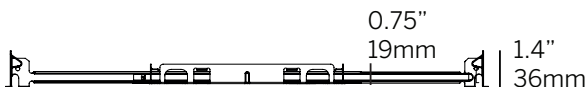
Housing Information

Landing Pan/ New Construction

10/11



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



Landing Pan

- Galvanized steel constructions
- Integral junction box and driver accessible through ceiling aperture.
- Supplied with hanger bars that adjust between 13.6" and 24.5"

Opening

- R = Round
- S = Square

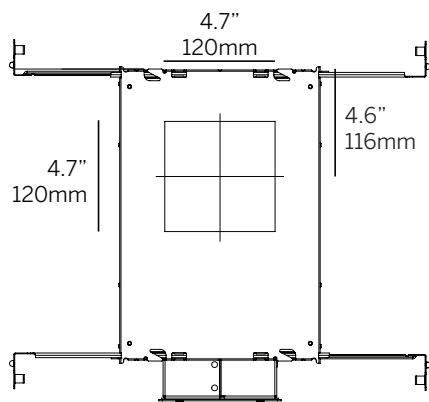
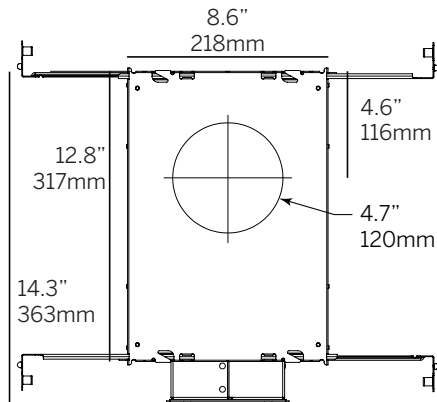
Integral Driver

- S010 = eldoLED 1%
0-10V dimming, 120-277V
- D010 = eldoLED 0.1%
0-10V dimming, 120-277V
- SPH = Triac/ELV 3%
dimming, 120V *only*
- PEQ0 = Lutron Hi-lume
Premier 0.1% EcoSystem,
120-277V
- D2S = eldoLED 0.1%,
DALI-2 (DT-6), 120-277V
- D2T = eldoLED 0.1%,
DALI-2 (DT-8) dimming,
120-277V. *Not available
on D Series.*
- EM = Bodine 6W
Emergency Driver, 120-277V
- EM = Iota 7W or 12W
Emergency Driver, 120-277V
(Remote only)

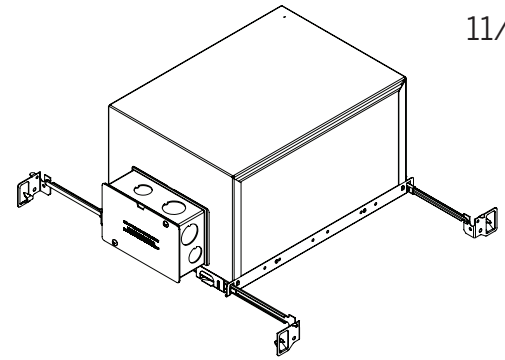
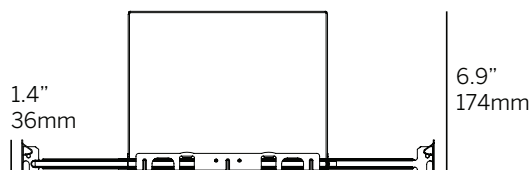
*Refer to the chart on page 4 for
more information on Housing/
Driver compatibility.*

4" ProTools Downlights

Housing Information



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



11/11

IC/CP

- IC/CP housing for accessible ceilings only
- 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

Opening

- R = Round
- S = Square

Integral Driver

- S010 = eldoLED 1% 0-10V dimming, 120-277V
- D010 = eldoLED 0.1% 0-10V dimming, 120-277V
- SPH = Triac/ELV 3% dimming, 120V *only*
- PEQ0 = Lutron Hi-lume Premier 0.1% EcoSystem, 120-277V
- D2S = eldoLED 0.1%, DALI-2 (DT-6) dimming, 120-277V
- D2T = eldoLED 0.1%, DALI-2 (DT-8) dimming, 120-277V. *Not available on D Series.*
- EM = Bodine 6W Emergency Driver, 120-277V
- EM = Iota 7W or 12W Emergency Driver, 120-277V (Remote only)

Refer to the chart on page 4 for more information on Housing/Driver compatibility.