

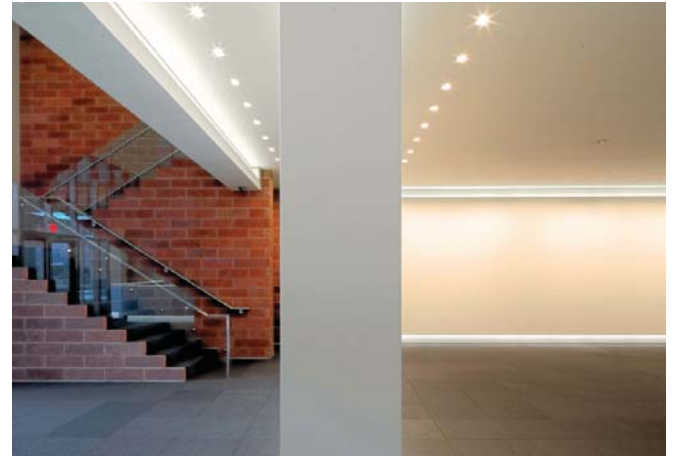


1" REGRESS ALZAK




1" REGRESS

## LUMINAIRE INFORMATION



## DELIVERED PERFORMANCE

BeveLED BASIC DOWNLIGHT 	14 Watts	20 Watts
		80+ CRI
Lumens per Watt	61	59
Source Lumens	1000	1636
<b>Delivered Lumens</b>	<b>896</b>	<b>1245</b>

Performance based on 3000K, 80CRI with 30° reflector.

## PROJECT INFORMATION

PROJECT _____	TYPE
DATE _____	
NOTES _____	
_____	
_____	

## HOW TO SPECIFY

Trim	Bevel Style	Flange Finish	Wattage	Color Temperature	Reflector	Housing Type	Voltage	Accessories
<b>1020</b> Downlight <b>1020W</b> Use in Wet Location <b>1020TZ</b> Tech Zone Compatible Trim <b>1020EML</b> Use with EML Emergency <b>1020EMLW</b> Wet Location Use with EMLW Emergency	<b>1" REGRESS</b> <b>B1</b> - Die Cast Bevel <b>AB1</b> - Black Alzak Bevel w/ painted flange <b>AC1</b> - Clear Matte Alzak Bevel w/ painted flange  Note: Alzak trims not for use in wet location	<b>10</b> - White <b>13</b> - Statuary Bronze <b>21</b> - Black <b>28</b> - Metalized Grey <b>RAL</b> - Special Color	<b>LRTD4-9014-M2</b> (14W LED) <b>LRTD4-9020-M2</b> (20W LED)	<b>STANDARD CRI 80+</b> <b>27KS</b> - 2700K <b>30KS</b> - 3000K <b>35KS</b> - 3500K	<b>30</b> - 30° <b>50</b> - 50° <b>80</b> - 80°	<b>NCSM</b> New Construction	<b>120V</b> <b>277V</b>	<b>CB27</b> - 27" C-Channel Bars <b>CB52</b> - 52" C-Channel Bars <b>DIML2</b> - 0-10V Low Voltage 100%-15% Dimming Driver <b>DIML3</b> - Lutron Hi-Lume A-Series 2 wire Forward Phase (with neutral) 100%-1% Dimming Driver. 120V Only <b>DIML4</b> - Lutron Hi-Lume A-Series 3 wire or ECO System 100%-1% Dimming Driver <b>DIML6A</b> - eldoLED SOLOdrive 561/S 0-10V control 100%-0% dimming driver For Lutron Controls only. See dimming compatibility guide. <b>DIML6B</b> - eldoLED SOLOdrive 561/S 0-10V control 100%-0% dimming driver For Non-Lutron Controls only. See dimming compatibility guide. <b>DIML7</b> - eldoLED SOLOdrive 560/S DALI control 100%-0% dimming driver <b>DIML9</b> - 2 wire Forward Phase / TRIAC 100%-15% Dimming Driver 120V Only. <b>DIML10</b> - 2 wire Reverse Phase / ELV 100%-15% Dimming Driver 120V Only. <b>TZ</b> - TechZone ceiling compatible
<b>Accessories (continued)</b>								<b>EML</b> - Emergency lighting battery pack w/ remote test switch. Above ceiling access required for service. Not for use with wet listed. Bodine BSL17C-C2 Emergency driver with max. output of 260mA for 90 minutes delivering approx. 550-650 lumens. <b>EMLW</b> - Wet location emergency lighting battery pack w/ remote test switch. Above ceiling access required for service Bodine BSL17C-C2. Emergency driver with max. output of 260mA for 90 minutes delivering approx 550-650 lumens.



## LIGHT ENGINE

Available in 14W or 20W. Proprietary blend of high power white LEDs tightly binned for fixture-to-fixture color consistency  $\pm 50K$  within a 2-Step MacAdam Ellipse. Field replaceable through the aperture.

## MATERIALS:

**Trim:** Die cast aluminum retained by two mounting clips.

**Housing:** Fabricated of 20 ga. galvanized steel with thru wire J-box, 2 in 2 out at min. 90°C, #12 AWG thru branch circuit wiring. Housing and trim supplied as one complete unit.

**Trim Lens:** Proprietary low glare blended optical lens system.

**Reflector:** Precision injection molded specular polycarbonate reflector maximized for 30°, 50° or 80° beam distribution.

**CRI OPTIONS: Standard:** 80+ CRI.

**RATED LIFE:** Based on IESNA LM80-2008  
50,000 hours at 70% lumen maintenance (L70).

**HEATSINK:** Proprietary high performance aluminum die cast heatsink for maximum LED life.

## DRIVER: Field Replaceable

Solid state electronic. Constant current. High power factor. Specify 120V or 277V. Driver complies with IEEE C62.41 surge protection.

## DIMMING: (optional)

Multiple dimming drivers available. See compatibility chart attached.

## MOUNTING:

Butterfly brackets and adjustable nailer bars with integral nails provided. Nailer bars are extendible from 14" to 24" centers.

**CEILING CUT OUT:** 5 1/16"Ø

## LISTINGS:

Dry/Damp/Wet. \*(Wet available for die cast trims only). IBEW union made.



## NOTES:

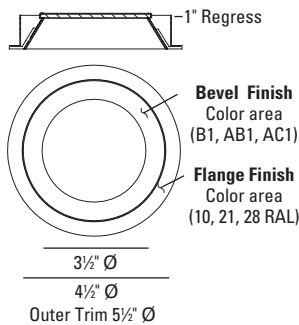
- Housing included with trim.
- Maximum ceiling thickness: 2-3/16"  
Consult factory for other ceiling conditions.
- Fixture should be installed in applications where ambient temperatures do not exceed 40°C during normal operation.
- Not for use in corrosive environment.
- Use of pressure washer voids warranty.
- **5 year warranty**

## PHOTOMETRICS:

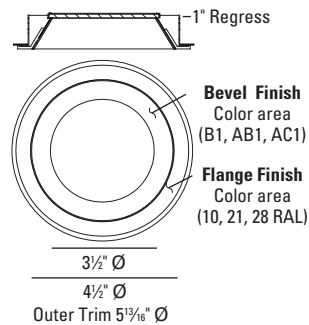
Consult factory or website for IES files. Tested in accordance with IESNA LM79-2008.

## TRIM INFORMATION

### 1" Regress

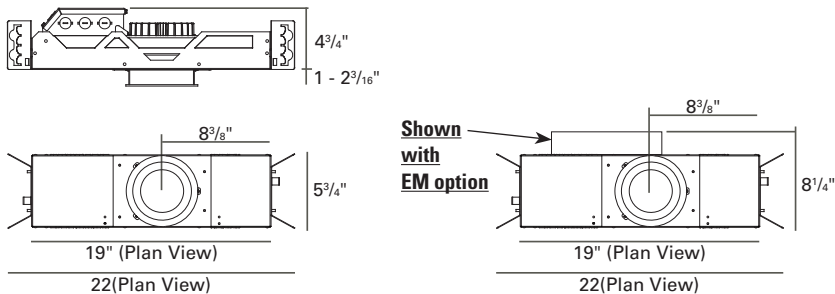


### 1" Regress - TechZone Compatible



## HOUSING INFORMATION

### New Construction - NCSM For Downlight Only

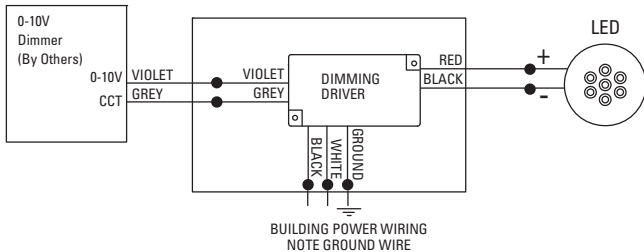


## DIMMING DRIVER WIRING SCHEMES:

### DIML2 LED: 0-10V FL Dimming Driver Wiring (Dims down to 15%)

**NOTE:** Consult dimmer manufacturer for detailed installation information.

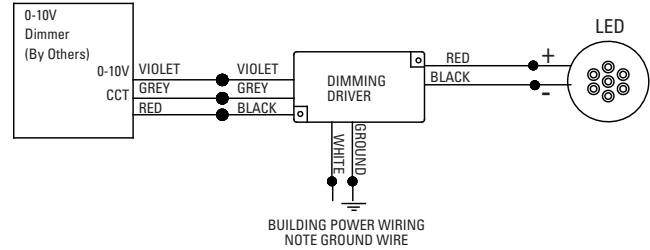
For use with 0-10V fluorescent type controls.  
Use only with approved vendor models:  
Lutron: DIVA DDTV-XX XX=Color



# DIMMING DRIVER COMPATIBILITY SELECTION GUIDE DIML2 & DIML3

### Leviton and Lightolier Driver Wiring

Leviton: IP710-DLX  
Lightolier: V2000FAMU



### Compatible Crestron Dimming System: NOTE:

Consult dimmer manufacturer for detailed installation information.

Crestron Model	Compatible	Min # of Fixtures Required (1)	Crestron Min-Max % Limits (2)	Measured Light Output (3)
CLS-EXP-DIMFLV	Y	1	0-100%	15-100%
DIN-4DIMFLV4	Y	1	0-100%	15-100%
DIN-A08	Y	1	0-100%	15-100%
GLX-DIMFLV8	Y	1	0-100%	15-100%
GLXP-DIMFLV8	Y	1	0-100%	15-100%

- (1) Operating dimmers with less than minimum required fixtures may cause flicker. The Max number of fixtures is limited by dimmer rating unless otherwise noted.
- (2) % Level refers to the Crestron Control System Intensity. Operating the dimmer below the Min % level may cause flicker. Operating the dimmer above the Max % may show no additional brightness.
- (3) % Level of light output from fixture when connected directly to power source
- (4) Dimmer requires a direct connection to neutral unless otherwise noted.

### DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V only.

#### Compatible Lutron Dimmers / Test Results

**NOTE:** Consult dimmer manufacturer for detailed installation information.

Product	Part Number	Fixtures Per Dimmer 120V Only*	Measured Light Output Range
NovaT	NTLV-600-CPN0199	1 – 8	100% - 1%
Maestro Wireless	MRF2-6ND-120	1 – 8	100% - 1%
RadioRA 2 1000W	RRD-10ND	1 – 13	100% - 1%
RadioRA 2 Adaptive dimmer	RRD-6NA	1 – 8	100% - 1%
RadioRA 600W	RA-6ND	1 – 8	100% - 1%
RadioRA 1000W	RA-10ND	1 – 13	100% - 1%
HomeWorks QS 600W	HQRD-6ND	1 – 8	100% - 1%
HomeWorks QS 1000W	HQRD-10ND	1 – 13	100% - 1%
HomeWorks QS Adaptive dimmer	HQRD-6NA	1 – 8	100% - 1%
HomeWorks QS WPM	HQRJ-WPM-6D-120	1 – 11 (per output)	100% - 1%
HomeWorks 600W dimmer	HRD-6ND	1 – 8	100% - 1%
HomeWorks 1000W dimmer	HWD-10ND, HRD-10ND	1 – 8	100% - 1%
HomeWorks WPM	HWI-WPM-6D-120	1 – 10 (per output)	100% - 1%
GRAFIK Eye QS	QSGR-, QSGRJ-	1 – 10 (per output)	100% - 1%
GRAFIK Eye 3000	GRX-3100, GRX-3500	1 – 10 (per output)	100% - 1%
RPM-4U Module (LCP, HomeWorks, GRAFIK Systems, Quantum)	HW-RPM-4U-120, LP-RPM-4U-120	1 – 26 (per output)	100% - 1%
RPM-4A Module (LCP, HomeWorks, GRAFIK Systems, Quantum)	HW-RPM-4A-120, LP-RPM-4A-120	1 – 8 (per output)	100% - 1%
GP Panels (LCP, HomeWorks, GRAFIK Systems, Quantum)	Various	1 – 27	100% - 1%
Stanza	SZ-6ND	1 – 8	100% - 1%

\* Fixtures per Dimmer value assumes a 40W fixture. Number of fixtures may be higher if wattage is less than 40W.

**NOTE:** Contact Lutron tech support for degangng rules when using wallbox controls on the Hi-lume A-Series LED Driver.

#### Compatible ETC Dimming Cabinets / Test Results

Approved for use with:

ETC Sensor + Cabinet with D20 dimming module

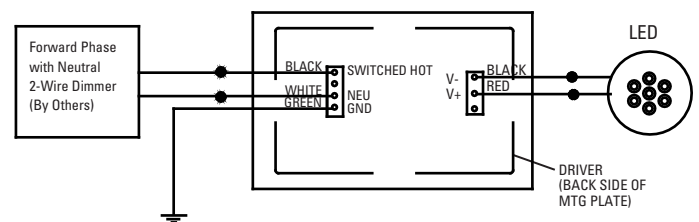
Measured light output 100% - 1%

ETC Unison DRd Cabinet with D20F dimming module

**NOTE:** Additional dim configuration required for optimum performance.

Measured light output 100% - 1%

#### Wire Diagram for 2-Wire Control



# DIMMING DRIVER COMPATIBILITY SELECTION GUIDE

## DIML 4, DIML6A & DIML6B

### DIML4 LED: Lutron Hi-Lume A-Series LED Driver with Eco System Control / LED Dimming Driver Wiring (Dims down to 1%)

#### Compatible Lutron Dimmers / Test Results

NOTE: Consult dimmer manufacturer for detailed installation information.

Product	Part Number	Fixtures Per Dimmer		Measured Light Output Range
		120V	277V	
NovaT	NTF-10,	1-59	-	100% - 1%
NovaT	NTF-103P, NTF-10-277	1-29	1-61	100% - 1%
NovaT	NTF-103P-277	-	1-46	100% - 1%
Nova	NF-10	1-59	-	100% - 1%
Nova	NF-103P, NF-10-277	1-29	1-61	100% - 1%
Nova	NF-103P-277	-	1-46	100% - 1%
Vareo	VF-10	1-29	-	100% - 1%
Skylark	SF-10P, SF-103P	1-29	-	100% - 1%
Skylark	SF-12P-277, SF-12P-277-3	-	1-46	100% - 1%
Diva	DVF-103, DVSCF-103P	1-29	-	100% - 1%
Diva	DVF-103P-277, DVSCF-103P-277	-	1-46	100% - 1%
Ariadni	AYF-103P	1-29	-	100% - 1%
Ariadni	AYF-103P-277	-	1-46	100% - 1%
Vierti	VTF-6AM	1-22	-	100% - 1%
Maestro	MAF-6AM, MAF-6AM-277, MSCF-6AM, MCSF-6AM-277	1-22	1-46	100% - 1%
Maestro Wireless	MRF2-F6AN-DV	1-22	1-46	100% - 1%
Spacer System	SPSF-6A, SPSF-6A-277, SPSF-6AM, SPSF-6AM-277	1-22	1-46	100% - 1%
Lyneo LX	LXF-103PL	1-29	-	100% - 1%
Lyneo LX	LXF-103PL-277	-	1-46	100% - 1%
Radio RA 2	RRD-F6AN-DV	1-22	1-46	100% - 1%
HomeWorks QS	HQRD-F6AN-DV	1-22	1-46	100% - 1%
Interfaces (1)	PHPM-3F-120, PHPM-3F-DV	1-59	1-123	100% - 1%
	NGRX-FDBI-16A	1-59	-	100% - 1%
Energi Savr Node with EcoSystem	CS-1L-WM, CS-2L-WM, CS-1LCM, CS-2L-CM	64 per EcoSystem		100% - 1%
Grafik Eye QS with ECO System	QS with EcoSystem			100% - 1%
Quantum	Quantum			100% - 1%
PowerPak dim module ECOSystem	RMJ-ECO32-DV-B	32 per module		100% - 1%

(1) For use with 3 Wire controls or Commercial Systems, RA Systems or Home Systems applications.

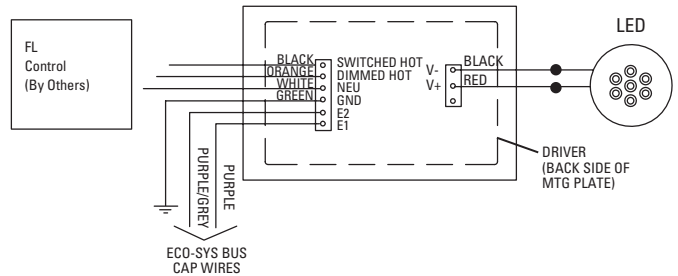
\*Contact Lutron tech support for deganging rules when using wallbox controls on the Hi-lume A-Series LED Driver.

\*\*Fixtures per Dimmer value assumes a 40W fixture. Number of fixtures may be higher if wattage is less than 40W.

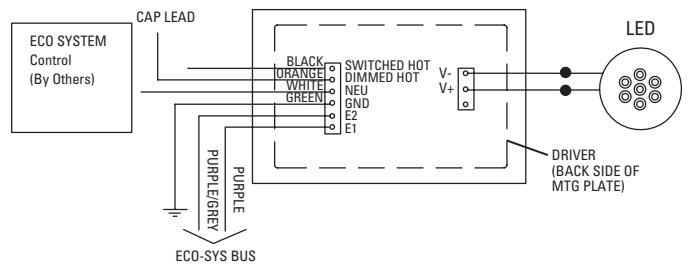
### DIML6A LED: eldoLED SOLOdrive 561/S 0-10V control 100%-0% dimming driver For Lutron Controls only.

Product	Part Number	Fixtures Per Dimmer		Measured Dimming Range
		120V Only		
Diva	DVTV/NFTV/N TFTV with PP-20	1-4		1% - 99%
Energi Savr Node	QSN-4T16-S	1-5		1% - 100%
Panels	TVM2 Module	1		1% - 99%
Interfaces	GRX-TVI w GRX3503	1-4		1% - 100%
Lutron Electronics	GraphicEye-GRX-TVI w GRX3503 Energy Savr Node-QSN-4T16-S TVM2 Module			

#### Wire Diagram for 3-Wire FL Control (no Eco System Control)



#### Wire Diagram for ECO System Digital Control



#### Compatible ETC Dimming Cabinets / Test Results

Approved for use with:

ETC Sensor+ Cabinet with D20 dimming module

Measured light output 100% - 1%

ETC Unison DRd Cabinet with D20F dimming module

NOTE: Additional dim configuration required for optimum performance.

Measured light output 100% - 1%

### DIML6B LED: eldoLED SOLOdrive 561/S 0-10V control 100%-0% dimming driver For Non-Lutron Controls only.

Product	Part Number
Bush-Jaeger	2112U-101
Jung	240-10
Leviton Lighting Controls	IllumaTech-IP710-DLX
Lightolier Controls	ZP600FAM120
Merten	5729
Pass & Seymour	CD4FB -W
The Wall Stopper	DCLV1