BeveLED® 2.2





Universal and Field Convertible - Trim

Trimless Millwork



usailighting.com/beveled

FEATURES

- Field Flexibility between trimmed, trimless and millwork
- Dry/damp/wet location rated for bathrooms and showers
- 1% dimming standard + more dimming options
- Clear overspray protector for installation convenience
- · Full family platform
- · Iconic beveled look

COMPANION FAMILY PRODUCTS







Deep Regress - KB4RC

Adjustable - KB4RA

Wall Wash - KB4RW

DOWNLIGHT PERFORMANCE DATA

LED COLOR CHOICES

DELIVERED*		Classic White					Warm Glow Dimming			Co	lor Select
PERFORMANCE:	9W	12W	16W	24W	33W	36W	16W	32W	16W	32W	
Source Lumens:	1150	1300	1725	2400)	3025	4150	1275	2150	1250	2075
Lumens Per Watt:	93	86	86	80		71	99	69	61	60	53
Delivered Lumens:	775	1025	1375	192	5	2400	3450	1100	1800	950	1600
EM Mode Output:		57	5 Delivered L	umens (no	minal)			450 Deliver	red Lumens	475 Delive	red Lumens

^{*}Based on 3000K, 80+ CRI. Performance varies for each specific beamspread and color temperature.

CORRELATED COLOR TEMPERATURE MULTIPLIER	Classic White				Warm Glow Dimming			Color Select								
	2200K	2700K	2700K	3000K	3500K	4000K	2700K	2700K	3000K	3500K	2200K	2700K	3500K	4000K	5000K	6000K
Color Rendering Index:	80+	80+	90+	90+	80+	80+	80+	90+	90+	80+	80+	80+	80+	80+	80+	80+
Multiplier for Lumen Output:	0.72	0.94	0.78	0.78	1.00	1.06	0.94	0.74	0.80	1.07	0.87	0.96	1.04	1.09	1.13	1.18

THE COMPLETE BEVELED FAMILY PLATFORM

More Ceiling Applications

More Sizes and Shapes

Armstrong * Ceiling Solutions Compatible

Sloped Ceiling BevelED Block

Cylinders

BevelED Micro

Cylinders

BevelED Micro

BevelED Mini

BevelED 5.0

Trimless Acoustical Connect TechZone

BevelED Connect

BeveLED[®] 2.2

KAY LIGHTING

4.5" Round Downlight - KB4RD

Specify fixture part number. (All boxes must be filled in to correctly order)

KB4RD										
BeveLED Trim Style	Wattage Options	LED Color Options	Beam Options	Lens Options	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Voltage Options Select one	Dimming Driver Options	Acessories (Optional)
F Trimmed	Classic \	White Light		S Solite	WH White	WH White	FT Flat Housing	UNV 120V-277V	For use with Universal Voltage 120V - 277V	CB27 27" C-Channel Bars
with Flange (use with all materials)	09C3 9W LED 12C3	22KS (1) 2200K, 80+ CRI 27KS	25 25 ° beam 50	(provided standard) SF	SC Conduit Silver	SC Conduit Silver	New Construction (3)		No Additional Charge D6E	CB52 52" C-Channel Bars
L	12W LED	2700K, 80+ CRI	50 ° beam	Solite Frosted	GR Grey	GR Grey	FTIC Flat Housing		EldoLED 0-10V, 1% (provided standard)	EM Emergency Battery (7
Trimless Spackle-in (use with	16C3 16W LED	27KH 2700K, 90+ CRI	90 90 ° beam	BF	BL Black	BL Black	IC-Rated (up to 16W		D6F EldoLED 0-10V, 1%	EMW Emergency Battery
sheetrock and plaster	24C3 24W LED	30KS 3000K, 80+ CRI		Borosilicate Frosted	BZ Bronze	BZ Bronze	maximum) (3)		D4 Lutron 3-wire/ECO, 1%	Wet Location (7)
only) M	33C3 33W LED	30KH 3000K, 90+ CRI			PR Primer Finish	PR Primer Finish	FTCP Flat Housing		D4E Lutron 5 ECO, 5% (2, 3, 4)	
Millwork Knife-Edge	36E1 36W LED	35KS 3500K, 80+ CRI			AC	AC	Chicago Plenum (3)		D4H Lutron H ECO, 1% Fade	
(use with wood and		35KH 3500K, 90+ CRI			Clear Matte Anodized	Clear Matte Anodized	NCSM New Construction		(2, 3, 4) D6A	
stone)		40KS				WH White	Narrow		EldoLED 0-10V, 0.1%	
		4000K, 80+ CRI 40KH 4000K, 90+ CRI	GR NC EldoLED 0-10V, 0.1%	D6B EldoLED 0-10V, 0.1%						
	Warm G	Flow Dimming				BL Black	Construction		EldoLED DALI, 0.1%	
	16WG2 16W LED	2722KS 2700K-2200K,	30°	AB Piano Gloss Black	Piano Gloss	Black	NCCP Chicago Plenum NCIC Insulation Contact Rated /	120V	D18 Moons DMX, 0.1% (2, 3, 6)	
	32WG2	80+ CRI	beam		Black				For use with 120V only	
	32W LED	2722KH 2700K-2200K, 90+ CRI	50 50° beam			WH White GR			No Additional Charge D19 Phase 2-wire, 1%	
		3022KS	90			Grey	Airtight (1)		(1, 2, 3, 4, 5)	
		3000K-2200K, 80+ CRI	90° beam			BL Black			D3 Lutron 2-wire, 1% (4)	
		3022KH 3000K-2200K, 90+ CRI			RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #		347V	For use with 347V only	-
		3522KS 3500K-2200K, 80+ CRI			5,750,700	*Leave blank			0-10V dim, 1% 347V only (2, 3)	
	Color Select Tunable White				for Trimless					
	16CS1 16W LED	6022KS 6000K-2200K,	40 40°							
	32CS1	Tunable White Light	beam							
	32W LED	80+ CRI	60 60° beam	21	lot available with 36 Not available for War Not available for Colo	m Glow. 5 Not	vailable with 9W. available with 33W. available with FT, F		Not available with 347V. For NC and only. NCSM housing requires above	
			90 90° beam				ousing			

TRIM FINISH OPTIONS













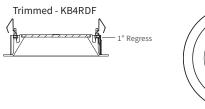
Page 2

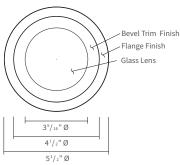




Trimmed - KB4RDF

TRIM DETAILS



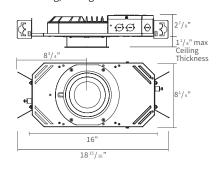


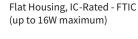


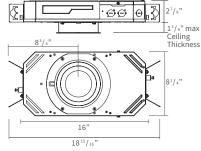
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

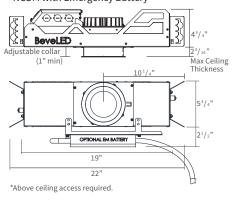
Flat Housing - FT
Flat Housing, Chicago Plenum - FTCP



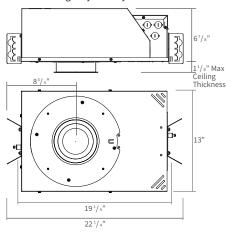




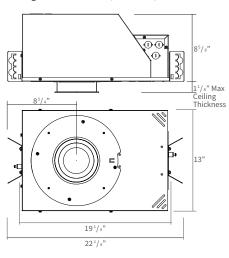
New Construction Narrow Width - NCSM NCSM with Emergency Battery*



New Construction - NC Insulation-Contact Rated (24W Max) - NCIC Chicago Plenum Rated (24W Max) - NCCP NC with Emergency Battery



Insulation-Contact Rated (32W-33W) - NCIC Chicago Plenum Rated (32W-36W) - NCCP

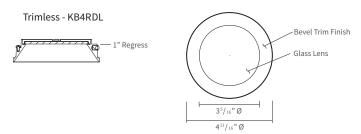






Trimless - KB4RDL

TRIM DETAILS

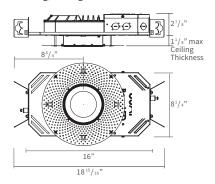


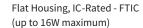


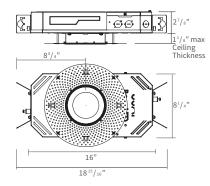
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

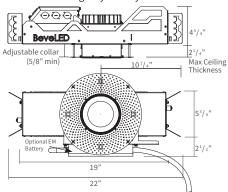
Flat Housing - FT
Flat Housing, Chicago Plenum - FTCP





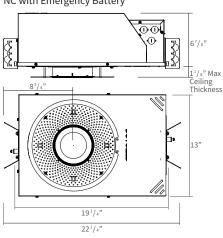


New Construction Narrow Width - NCSM NCSM with Emergency Battery*

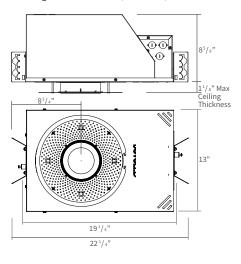


*Above ceiling access required.

New Construction - NC Insulation-Contact Rated (24W Max) - NCIC Chicago Plenum Rated (24W Max) - NCCP NC with Emergency Battery



Insulation-Contact Rated (32W-33W) - NCIC Chicago Plenum Rated (32W-36W) - NCCP

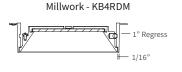


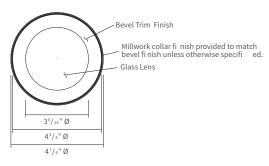




Millwork - KB4RDM

TRIM DETAILS



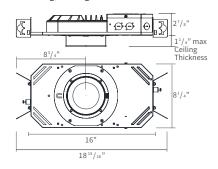


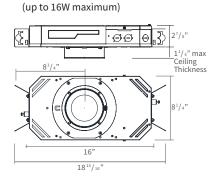


Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

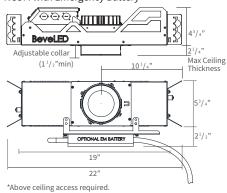
Flat Housing - FT
Flat Housing, Chicago Plenum - FTCP



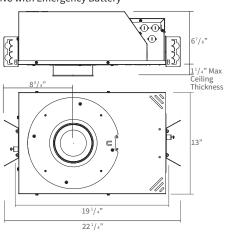


Flat Housing, IC-Rated - FTIC

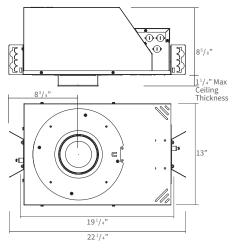
New Construction Narrow Width - NCSM NCSM with Emergency Battery*



New Construction - NC Insulation-Contact Rated (24W Max) - NCIC Chicago Plenum Rated (24W Max) - NCCP NC with Emergency Battery







BeveLED[®] 2.2



4.5" Round Downlight - KB4RD

BEVELED 2.2 SPECIFICATIONS

FIELD REPLACEABLE LED LIGHT ENGINE

is serviceable through the aperture without tools or with a Philips screwdriver.

FIELD REPLACEABLE DRIVER

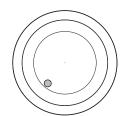
Unless otherwise specified, a 0-10V, 100%-1% solid state electronic constant current integral D6E dimming driver with a high power factor is provided standard and sources 2mA. All integral dimming drivers are located within the fixture housing and are serviceable from below the ceiling through the aperture. Some ontime delay may be experienced depending on control system used. All dimming drivers comply with IEEE C62.41 surge protection.

EMERGENCY BATTERY

IOTA emergency battery provides backup power for 90 minutes. NC EM fixtures are provided with an integral emergency battery with integral test switch and can be serviced through the aperture from below the ceiling plane. NCSM EM fixtures are provided with an integral emergency battery with a remote test switch, which comes with a 24" lead length for location of the test switch. Remote EM test switch is dry/damp only; select EMW emergency option for a wet location-rated EM test switch. NCSM EM fixtures require above ceiling access for service of the EM pack. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. Battery is not available with 347V.



Integral Emergency Test Switch included with NC housing





Remote Emergency Test Switch included with NCSM housing (above ceiling access required).

HOUSING

All BeveLED 2.2 fi xtures are field-felxible which allows for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. Housings are fabricated of 20 ga. steel construction with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring, except for NCSM which is fabricated of 18 ga. steel. FTIC and NCIC housing for use with 9W, 12W, and 16W light engines only are rated for direct contact with spray foam insulation of R-42 or less. FTIC housing is IC-rated up to 16W maximum, NCIC housing is IC-rated up to 33W maximum.

MOUNTING

B4RDF overlap fl ange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. B4RDL trimless fi xtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4RDM millwork fi xtures are provided with a millwork collar in finish to match trim fhish specified and are designed for use in wood/millwork, stone and tile construction applications. Butterfly brackets and adjustable nailer bars extendible from 14" to 24" centers with integral nails are provided for attachment to building structure. C-channel bars are optionally available for acoustical ceiling applications.

FIXTURE WEIGHT

FT, FTIC, and FTCP housings weigh 8 lbs. NC, NCIC, and NCCP housings weigh 16 lbs. NCSM housing weighs 10 lbs., NCSM with EM weighs 16.5 lbs, and NC housing with EM weighs 24.5 lbs.

WARRANTY

Based on IESNA LM80-2008, BeveLED has a 50,000 hour rated life at 70% lumen maintenance (L70). USAI Lighting Warranty covers replacement parts for 5 years from date of shipment. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

CEILING CUT OUT

B4RDF Trimmed with Overlap Flange: 5-1/16" Ø B4RDL Trimless Spackle-in: 5-1/2" Ø B4RDM Millwork Knife-edge: 4-15/16" Ø

LISTINGS

Dry/Damp/Wet location. AC and AB trim finishes are dry/damp only. Remote EM test switch is dry/damp only. Select EMW option for wet location remote test switch. UL2043 rated for use in air handling plenums. NRTL/CSA-US tested to UL standards. IBEW union made.

NOTES

• Use of pressure washer voids warranty

PHOTOMETRICS

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

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BeveLED® 2.2

4.5" Round Downlight - B4RD

LED COLOR OPTIONS





Classic White Light

Our proprietary LED light engines achieve a 2-step MacAdam ellipse along the black body locus, resulting in reliable and uniform color from fixture to fixture. You'll see the results in consistently beautiful light throughout your space.







Warm Glow Dimming

Warm Glow Dimming provides warmth and glow once possible only in dimmed incandescent sources. Utilizing our patented proprietary algorithm and circuitry, Warm Glow Dimming technologies precisely mimic the black body curve of a standard 100W A19 lamp by gradually transitioning from 2700K, 3000K or 3500K down to 2200K. The result is virtually indistinguishable from an incandescent light source.







Color Select \degree Tunable White

Color Select represents the next innovation in color temperature control for advanced LED recessed downlighting. Color Select ° products allow users to adjust color temperature from 6000K down to 2200K while independently adjusting intensity to achieve ultimate control over the quality of light in a space with a single fixture type. Color Select interfaces with standard dimming and control systems.







DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D3 / DIML3

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

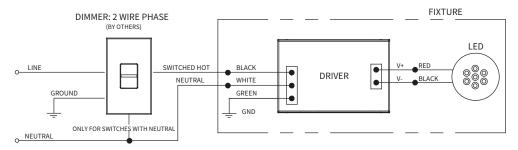
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D3 / DIML3 LED: Lutron Hi-Lume A-Series 2 Wire Fwd Phase (with neutral) / LED Dimming Driver Wiring (Dims down to 1%) 120V

	D3 / DIML3 Dimmer Com	npatibility Chart			
	50, 5111120 5111111101 0011	- Facility Griding	Dimmed Light	Qty Fixtures I	Per Dimmer*
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage
120V Only				39W and Less	40W - 80W
ETC	Sensor+ Cabinet	ELV10	100% - 1%	1 – 26	1 – 13
ETC	Unison DRd Cabinet	ELV10	100% - 1%	1 – 26	1 - 13
Lutron	Maestro Wireless® 600W dimmer	MRF2-6ND-120-	100% - 1%	1 - 8	1 – 4
Lutron	Maestro Wireless® 1000W dimmer	MRF2-10ND-120-	100% - 1%	1 - 13	1 – 6
Lutron	HomeWorks® QS adaptive dimmer	HQRD-6NA-	100% - 1%	1 – 8	1 – 4
Lutron	HomeWorks® QS 600W dimmer	HQRD-6ND-	100% - 1%	1-8	1 – 4
Lutron	HomeWorks® QS 1000 W dimmer	HQRD-10ND-	100% - 1%	1 - 13	1 – 6
Lutron	Caseta Wireless® Pro 1000W dimmer	PD-10NXD-	100% - 1%	1 - 13	1 – 6
Lutron	Stanza® dimmer	SZ-6ND-	100% - 1%	1-8	1 – 4
Lutron	RadioRA® 2 adaptive dimmer	RRD-6NA-	100% - 1%	1 - 8	1 – 4
Lutron	RadioRA® 2 1000 W dimmer	RRD-10ND-	100% - 1%	1 – 6	1 – 3
Lutron	myRoom DIN power module	MQSE-4A1-D	100% - 1%	1 - 6	1 – 3
Lutron	HomeWorks® QS wallbox power module	HQRJ-WPM-6D-120-	100% - 1%	1 – 26	1 – 13
Lutron	Homeworks® DIN power module	LQSE-4A1-D	100% - 1%	1 – 6	1-3
Lutron	HomeWorks® wallbox power module	HWI-WPM-6D-120	100% - 1%	1 – 26	1 – 13
Lutron	GRAFIK Eye® QS control unit	QSGR-, QSGRJ-	100% - 1%	1 – 26	1 - 13
Lutron	GRAFIK Eye® 3000 control unit	GRX-3100-, GRX-3500-	100% - 1%	1 – 26	1 - 13
Lutron	RPM-4U module	HW-RPM-4U-120, LP-RPM-4U-120	100% - 1%	1 – 26	1 - 13
Lutron	RPM-4A module	HW-RPM-4A-120, LP-RPM-4A-120	100% - 1%	1 – 26	1 - 13
Lutron	GP dimming panels	Various	100% - 1%	1 – 26	1 – 13
Lutron	Ariadni CL 250W dimmer	AYCL-253P-	100%-1%	1 – 8	1 – 4
Lutron	Diva CL 250W dimmer	DVCL-253P-, DVSCCL-253P-	100%-1%	1-8	1 – 4
Lutron	Grafk T CL or RF CL dimmer	GT-250M-, GTJ-250M-	100%-1%	1 – 8	1 – 4
Lutron	Nova T CL 250W dimmer	NTCL-250-	100%-1%	1 – 10	1 - 5

^{*} NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D3 / DIML3 2 WIRE PHASE DIMMING





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D4 / DIML4

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

		/ DIML4 3-Wire Dimmer Compatibil	Dimmed Light	Qty Fixtures Pe	r Control*
M anufacturer	Product	Part Number	Output Range		W attage
120V Only				39W and Less	40W - 80W
ETC	Sensor+ Cabinet	D20 Dimming module	100% - 1%	1-53	1–26
ETC	Unison DRd Cabinet	D20F Dimming module	100% - 1%	1-53	1-26
Lutron	Nova T	NTF-10-	100%-1%	1-41	1-20
Lutron	Nova T	NTF-103P-	100%-1%	1–20	1-10
Lutron	Nova	NF-10-	100%-1%	1-41	1-20
Lutron	Nova	NF-103P-	100%-1%	1–20	1-10
Lutron	Vareo	VF-10-	100%-1%	1–20	1-10
Lutron	Skylark	SF-10P-, SF-103P-	100%-1%	1-20	1-10
Lutron	Diva	DVF-103P-, DVSCF-103P-	100%-1%	1–20	1-10
Lutron	Ariadni	AYF-103P-	100%-1%	1–20	1-10
Lutron	Vierti	VTF-6A-	100%-1%	1-15	1-7
Lutron	Maestro	MAF-6AM-, MSCF-6AM-	100%-1%	1-15	1-7
Lutron	M aestro W ireless	M RF2-F6AN-DV-	100%-1%	1-15	1-7
Lutron	RadioRA 2	RRD-F6AN-DV-	100%-1%	1-15	1-7
Lutron	HomeWorks QS	HQRD-F6AN-DV	100%-1%	1-15	1-7
Lutron	Interfaces	PHPM-3F-120, PHPM-3F-DV	100%-1%	1-41	1-20
Lutron	GP Dimming Panels	Various	100%-1%	1-41	1-20
277V Only				40W and Less	41W - 80W
ETC	Sensor+ Cabinet	D20 Dimming module	100% - 1%	1-53	1-26
ETC	Unison DRd Cabinet	D20F Dimming module	100% - 1%	1-53	1-26
Lutron	Nova T	NTF-10-277-	100%-1%	1-44	1-22
Lutron	Nova T	NTF-103P-277-	100%-1%	1-33	1-16
Lutron	Nova	NF-10-277-	100%-1%	1–44	1-22
Lutron	Nova	NF-103P-277-	100%-1%	1-33	1-16
Lutron	Skylark	SF-12P-277-, SF-12P-277-3	100%–1%	1-33	1-16
Lutron	Diva	DVF-103P-277-, DVSCF-103P-277-	100%-1%	1-33	1-16
Lutron	Ariadni	AYF-103P-277-	100%-1%	1–44	1-22
Lutron	Vierti	VTF-6A-	100%-1%	1-33	1-16
Lutron	Maestro	MAF-6AM-277-, MSCF-6AM-277-	100%-1%	1–20	1-10
Lutron	M aestro Wireless	M RF2-F6A N-DV-	100%-1%	1-33	1 – 16
Lutron	RadioRA 2	RRD-F6AN-DV-	100%-1%	1-33	1 – 16
Lutron	HomeWorks QS	HQRD-F6AN-DV	100%-1%	1-33	1-16
Lutron	Interfaces	PHPM-3F-DV	100%-1%	1–88	1-44
Lutron	GP Dimming Panels	Various	100%-1%	1-88	1-44

^{*} NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.



DIMMING DRIVER COMPATIBILITY **SELECTION GUIDE**

D4 / DIML4 Continued

DIMMING DRIVER WIRING SCHEMES:

NOTES:

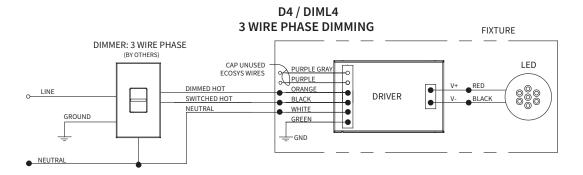
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)

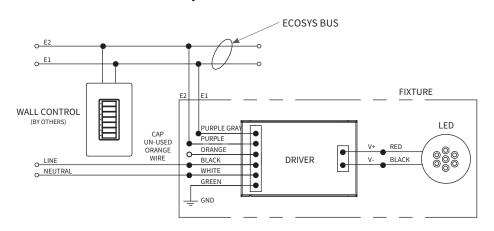


D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to

	D4 / DIML4 EcoSystem Dimmer Compatibility Chart									
	Dimmed Light Qty Fixtures Per Control*									
Manufacturer	Product	Part Number	Output Range	ge Fixture Wattage						
120V / 277V				39W and Less	40W - 80W					
Lutron	PowPak dimming module	RMJ-ECO32-DV-B	100%-1%	1-32	1-16					
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-1%	1-64	1-32					
Lutron	GRAFIK Eye QS (120V ONLY	QSGRJ- E, QSGR- E	100%-1%	1-64	1-32					
Lutron	Quantum	Various	100%-1%	1-64	1-32					

^{*} NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D4 / DIML4 **EcoSystem CONTROLS**





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D4E / DIML4Eand D4H /DIML4H

DIMMING DRIVER WIRING SCHEMES:

NOTES:

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- 5. Cap any wires not used separately (not together).

D4E / DIML4E LED: Lutron 5 Series EcoSystem LED Driver / LED Dimming Driver Wiring (Dims down to 5%)

D4E / DIML4E EcoSystem Dimmer Compatibility Chart									
	Dimmed Light Oty Fixtures Per Control*								
Manufacture	Manufacturer Product Part Number Output Range Fixture Wattage								
120V / 277V				39W and Less	40W - 80W				
Lutron	PowPak dimming module	RMJ-ECO32-DV-B	100%-5%	1-32	1-16				
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-5%	1-64	1-32				
Lutron	GRAFIK Eye QS (120V ONLY	QSGRJE, QSGRE	100%-5%	1-64	1-32				
Lutron	Quantum	Various	100%-5%	1-64	1-32				

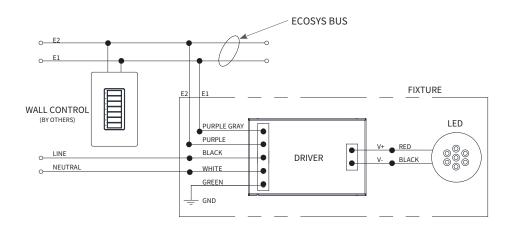
^{*} NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D4H / DIML4H LED: Lutron H Series EcoSystem LED Driver with Fade to Black (dims down to 1%)

	D4H / DIML4H EcoSystem Dimmer Compatibility Chart										
	Dimmed Light Oty Fixtures Per Control										
Manufacturer	Product	Part Number	Output Range	Fixture	e Wattage						
120V / 277V				39W and Less	40W - 80W						
Lutron	PowPak dimming module	RMJ-ECO32-DV-B	100%-1%	1-32	1-16						
Lutron	Energi Savr Node	QSN-1ECO-S, QSN-2ECO-S	100%-1%	1-64	1-32						
Lutron	GRAFIK Eye QS (120V ONLY	QSGRJE, QSGRE	100%-1%	1-64	1-32						
Lutron	Ouantum	Various	100%-1%	1-64	1-32						

^{*} NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D4E / DIML4E and D4H / DIML 4H EcoSystem CONTROLS





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D6A / DIML6A and D6E / DIML6E D6B / DIML6B and D6F / DIML6F

IMPORTANT SAFETY INSTRUCTIONS

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- 5. Cap any wires not used separately (not together).

D6A / DIML6A and D6E / DIML6E LED Dimming Compatibility Table

D6A / DIML6A and D6E / DIML6E are linearly programmed dimming drivers for use with logarithmic-style dimming controls (e.grobuand others listed in the table below)

D6A / DIML6A = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%

D6E / DIML6E = EldoLED ECOdrive 0-10V control dims from 100% to 1%

	D6A / DIML6A and D6E / DIML6E Dimmer Compatibility Chart											
	2 3.1, Dividor and D		Dimmed Light	Qty Fixtures								
Manufacturer	Product	Part Number	Output Range	Per Dimmer*								
120V & 277V			DIM,L6A 6E	Refer to manufacturer's								
Lutron	Diva	DVTV/NFTV with PP-20	99% - 0.1% 1%	dimmer load rating for								
Lutron	Nova T	NTFTV with PP-20	99% - 0.1% 1%	maximum and minimun								
Lutron	Energi Savr Node	QSN-4T16-S	100% - 0.1% 1%	fixture quantities per								
Lutron	GP Dimming Panels	TVM2 Module	99% - 0.1% 1%	dimmer.								
Lutron	Interfaces	GRX-TVI w/ GRX3503	100% - 0.1% 1%	Enlighted compatible.								
Sensor Switch	nIO	nIO EZ	100% - 0.1% 1%									
enlighted	Control Unit	CU-3F-1R	100% - 0.1% 1%									

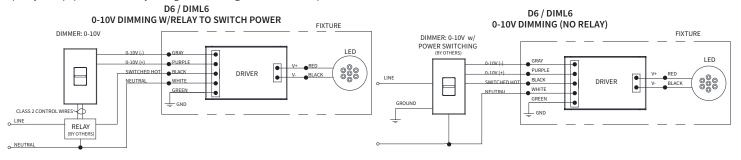
D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g.,t@resnon-Lutron and others listed below)
D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1%
D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to 1%

	D6B / DIML6B and D6F / DIML6F	- Dimmor Compatibility Chart				
M anufacturer	Product	Part Number	Dimmed			Qty Fixtures Per Dimmer*
120V & 277V			, DIM,I		6F	
Bush-Jaeger	Electronic potentiometer	2112U-101	100% -	0.1%	1%	Refer to
Jung	Electronic potentiometer	240-10	100% -	0.1%	1%	manufacturor's
Leviton	Iluma Tech dimmer	IP710-DLX	100% -	0.1%	1%	dimmorland
Lightolier (Philips)	M omentum (120V ONLY)	ZP600FAM 120	100% -1	0.1%	1%	rating for
Merten	Electronic potentiometer	5729	100% -	0.1%	1%	mavimum and
Pass & Seymour	Titan	CD4FB-W	11()()% -11	(). 1% 1	1%	
Watt Stopper	Miro	DCLV1	100% -	0.1%	1%	guantities nor
Synergy	Wallbox Dimmers	ISD BC	1100%0 -1	U.170	T-70	dimmor
ABB	i-bus	SD/S 2.16.1	1100% -10	0.1%	1%	Fig.1: albeit and
Crestron	M odules	GLX-DIM FLV8, GLXP-DIM FLV8	100% -	0.1%	1%	compatible.
Crestron	Green Light	GLPAC-DIM FLV4-, GLPAC-DIM FLV8-	100% -	0.1%	1%	compatible.
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0	0.1%	1%	
Crestron	DIN Rail Analog Output Module	DIN-A08	100% -	0.1%	1%	
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIM FLV4	100% -	0.1%	1%	
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIM FLV	100% -	0.1%	1%	
enlighted	Control Unit	CU-3E-1R	100%	0.1%	1%	,

DIMMING DRIVER WIRING SCHEMES:

NOTES: Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be runter6. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D7 / DIML7 and D7E

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

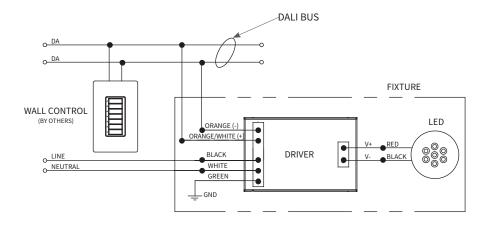
- SAVE THESE INSTRUCTIONS

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- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D7 / DIML7 and D7E Dimming Driver Wiring

D7 / DIML7 and D7E are linearly programmed dimming drivers.
D7 / DIML7 = EldoLED SOLOdrive DALI control dims from 100% to 0.1%
D7E = EldoLED ECOdrive DALI control dims from 100% to 1%

D7 / DIML7 / D7E DALI CONTROLS





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D8 / DIML8 and D8E

DIMMING DRIVER WIRING SCHEMES:

NOTES

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

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- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D8 / DIML8 and D8E Dimming Driver Wiring

D8 / DIML8 and D8E are linearly programmed dimming drivers.
D8 / DIML8 = EldoLED POWERdrive DMX control dims from 100% to 0.1%
D8E = EldoLED POWERdrive DMX control dims from 100% to 1%

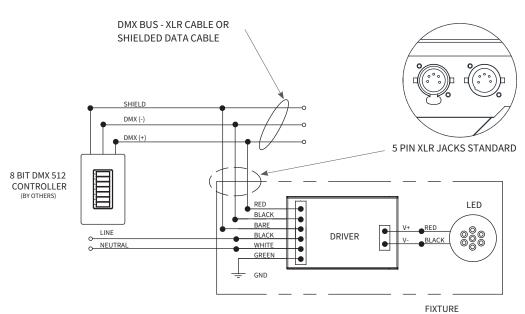
DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

The data cable used must meet the following requirements:

- · type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device (by others) should be used on last £ture in line on a circuit to avoid signal loss.

D8 / DIML8 / D8E DMX CONTROLS





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D15 / DIML15

DIMMING DRIVER WIRING SCHEMES:

NOTES:

Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS

- SAVE THESE INSTRUCTIONS

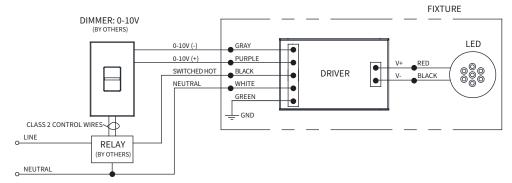
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- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.
- 5. Cap any wires not used separately (not together).

D15 / DIML15 LED: 0-10V, 347V Dimming Driver Wiring (Dims down to 1%) 347V Only

	D15 / DIML15 Dimmer Compatibility	v Chart	
Manufacturer	Product	Dimmed Light Output Range	Qty Fixtures Per Dimmer*
347			Use source current per
Acuity	Synergy ISD-BC	100% - 1%	fixture specification
Douglas Lighting	WPN-5721, WPN-5822	100% - 1%	sheet to determine
Hubbell	Light Hawk2 LHD-IRS3-N347-xx	100% - 1%	number of fixtures per
Leviton	Illumatech IP710-DLZ with 347V relay	100% - 1%	dimmer. Max number
Leviton	Centura Fluorescent Control System	100% - 1%	of fixtures is limited by
Lutron	Nova NFTV-* dimmer plus 347V relay	100% - 1%	dimmer load rating.
Lutron	Diva DVTV-* dimmer plus 347V relay	100% - 1%	ag.

^{*} NOTE: Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

D15 / DIML15 0-10V DIMMING W/RELAY TO SWITCH POWER



NOTE:

If switched, non-dimming operation is desired, cap off purple and gray wires individually at installation. Do NOT cap purple and gray wires together.

December 2018

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D18

DIMMING DRIVER WIRING SCHEMES:

NOTES

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D18 Dimming Driver Wiring

D18 are programmed dimming drivers. D18 Moons DMX control dims from 100% to 1%

DMX BUS -

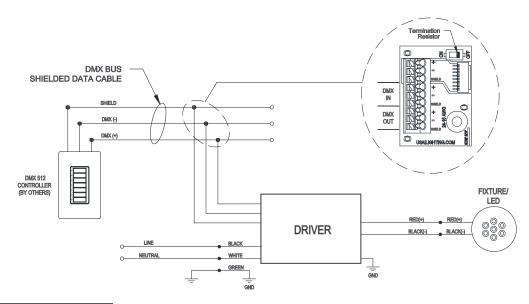
SHIELDED DATA CABLE

The data cable used must meet the following requirements:

- type: shielded, 2-conductor twisted pair
- maximum capacitance between conductors: 30 pF/ft
- maximum capacitance between conductor and shield: 55 pF/ft
- maximum resistance: 0.02 ohms/ft
- normal impedance: 100-140 ohms
- conductive core: 24 AWG is recommended

If 3-wire data cables are preferred, we suggest a Belden 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Do not use standard microphone cables: they cannot transmit DMX512 data reliably over long distances. NOTE: DMX link termination device, provided through Dip Switch on connection board, should be used on last fixture in line on a circuit to avoid signal loss.

D18 DMX CONTROLS



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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D19 / DIML19

DIMMING DRIVER WIRING SCHEMES:

NOTES:

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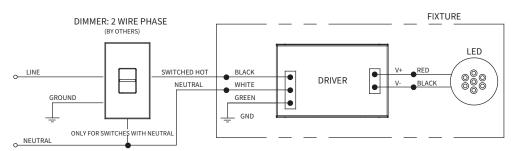
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<u>D19 / DIML19 LED</u>: Hatch XTC series or equivalent - Forward and Reverse Phase Dimming Driver. Dims down to 1% contingent upon dimmer specification and load. 120V only.

D19 / DIML19 2 WIRE PHASE DIMMING



סדם	/ DIMILIA	ummer	Compa	itibility	Cnart
,			-	-	

120V ONLY			
Forward Phase / TRIAC Dimming			
Manufacturer	Product	Qty Fixtures Per Dimmer	
Leviton	IPL06-10Z	Use fixture wattage per	
	6613-xxx	fixture specification	
Lutron	S-600P	sheet to determine	
	S-603P	number of fixtures	
	DV-600P	per dimmer. Max number	
	DV-603P	of fixtures is limited by	
	DVSC-603P	dimmer load rating.	
	CT-600P		
	CT-603P		

120V ONLY			
Reverse Phase / ELV Dimming			
Manufacturer	Product	Qty Fixtures Per Dimmer	
Leviton	6615	Use fixture wattage per	
	IPE04-xxx	fixture specification	
Lutron	NTELV-300	sheet to determine	
	NTELV-600	number of fixtures	
	SELV-300P	per dimmer. Max number	
	SELV-303P	of fixtures is limited by	
	DVELV-300P	dimmer load rating.	
	DVELV-303P		

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