



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

WALL WASH PERFORMANCE DATA

COMPANION FAMILY PRODUCTS



LED COLOR CHOICES

DELIVERED*	[O Classic White					🛑 Warm Glow Dimming 🌍 Color Select			
PERFORMANCE:	9W	12W	16W	24W	33W 3	6W 16W	32W	16W	32W	
Source Lumens:	1150	1300	1725	2400	3025	4150	1275	2150	1250	2075
Lumens Per Watt: W1 Optic	60	50	52	48	44	86	34	31	49	39
Delivered Lumens: W1 Optic	550	600	825	1150	1450	2975	550	925	700	1175
Lumens Per Watt: W2 Optic	74	63	63	58	52	N/A	N/A	N/A	N/A	N/A
Delivered Lumens: W2 Optic	675	750	1000	1400	1750	N/A	N/A	N/A	N/A	N/A
EM Mode Output:		37	5 Delivered L	_umens (non	ninal)		300 Deliv	ered Lumens	300 Deliv	ered Lumens

*Based on 3000K, 80+ CRI. Performance varies for each specific beamspread and color temperature. See IES files for exact values at usailighting.com.

CORRELATED COLOR TEMPERATURE	O Classic White			🔴 Warm Glow Dimming			🛟 Color Select									
MULTIPLIER	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



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December 2018

BeveLED° 2.2

4.5" Square Wall Wash - KB4SW

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

KB4SW										
BeveLED Trim Style	Wattage Options	LED Color Options	Beam Options	Wall Wash Lens	Bevel Trim Finish Options	*Flange/ Millwork Collar Finish	Housing Options	Voltage Options Select one	Dimming Driver Options	Acessories (Optional)
F	O Classic	White Light			WH White	WH White	FT Flat Housing	UNV 120V-277V	For use with Universal Voltage 120V - 277V	CB27 27"
Trimmed with Flange (use with all	09C3 9W LED	22KS (1) 2200K, 80+ CRI	W1 Tilted Wall Wash	D1 Diffusion Glass	SC Conduit Silver	SC Conduit Silver	New Construction (1, 2, 3, 9)		No Additional Charge	C-Channel Bars
materials) L Trimless	12C3 12W LED	27KS 2700K, 80+ CRI	Optic (6, 7)	(6, 7)	GR Grey	GR Grey	FTIC Flat Housing		EldoLED 0-10V, 1% (provided standard)	CB52 52" C-Channel
Spackle-in (use with	16C3 16W LED 24C3	27KH 2700K, 90+ CRI 30KS	W2 Horizontal Wall Wash	D2 Diffusion Glass (1)	BL Black	BL Black	IC-Rated (up to 16W maximum)		D6F EldoLED 0-10V, 1%	Bars EM
sheetrock and plaster only)	24C3 24W LED 33C3	3000K, 80+ CRI 30KH	Optic (1)		BZ Bronze	BZ Bronze	(1, 2, 3, 9) FTCP		D4 Lutron 3-wire/ECO, 1%	Emergency Battery (8) EMW Emergency Battery
M Millwork Knife-Edge (use with wood and stone)	33W LED 36E1	3000K, 90+ CRI 35KS			PR Primer Finish AC	PR Primer Finish AC	Flat Housing Chicago Plenum		D4E Lutron 5 ECO, 5% (2, 3, 4) D4H	
	36W LED	3500K, 80+ CRI 35KH			Clear Matte Anodized	AC Clear Matte Anodized	(1, 2, 3, 9) NCSM		Lutron H ECO, 1% Fade (2, 3, 4)	Wet Location (8)
		3500K, 90+ CRI 40KS 4000K, 80+ CRI				WH White	New Construction Narrow		D6A EldoLED 0-10V, 0.1%	
		4000K, 80+ CRI 40KH 4000K, 90+ CRI				GR Grey	Width (1, 2, 3, 9)		D6B EldoLED 0-10V, 0.1% D7	
	Warm Glow Dimming				BL Black	NC New		EldoLED DALI, 0.1%		
	16WG2 16W LED	2722KS W1 2700K-2200K, Tilted	D1 Diffusion	AB Piano Gloss Black	AB Piano Gloss Black	Construction NCCP		D18 Moons DMX, 0.1% (2, 3, 6)	_	
	32WG2 32W LED	80+ CRI 2722KH	Wall Wash Optic	Glass (6, 7)	DIACK	WH White GR	Chicago Plenum NCIC Insulation Contact Rated / Airtight (1)	120V	For use with 120V only]
		2700K-2200K, 90+ CRI	(6, 7)						No Additional Charge D19 Phase 2-wire, 1% (1, 2, 3, 4, 5)	
		3022KS 3000K-2200K, 80+ CRI				Grey BL Black			D3 Lutron 2-wire, 1%	
		3022KH 3000K-2200K, 90+ CRI			RAL Custom Color Specify RAL #	RAL Custom Color Specify RAL #		347V	For use with 347V only D15	
-		3522KS 3500K-2200K, 80+ CRI			Specify IAL #	*Leave blank			0-10V dim, 1% 347V only (2, 3)	
	🚺 Color S	elect Tunable White				for Trimless				
	16CS1 6022KS 16W LED 6000K-2200K, 32CS1 Tunable 32W LED White Light 80+ CRI (4) CRI (4)	6000K-2200K, 1	W1 Tilted Wall Wash	D1 Diffusion Glass						
		White Light	Optic	(6, 7)						
		(6, 7)	2 N 3 N	ot available with 36E ot available for Warr ot available for Colo ot available with 9W	n Glow 6 Not r Select FTC	available with 33W : available with FT, FT CP housings available with No	TC or CSM housing	8 Not available with 347V. For NC and NCSM housings only. N requires above ceiling access 9 W2 optic only. Not available w		

TRIM FINISH OPTIONS



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DISCLAIMER: KAY LIGHTING RESERVES THE RIGHT TO MAKE ANY DESIGN CHANGES FOR CONTINUOUS IMPROVEMENT WHICH WILL NOT AFFECT THE OVERALL APPEARANCE OR PERFORMANCE. ALL CEILINGS ARE TO BE ADEQUATELY REINFORCED BY OTHERS BEFORE INSTALLATION. ALL FIXTURES ARE TO BE WIRED BY A CERTIFIED ELECTRICIAN ONLY. THIS INFORMATION IS PROPERTY OF KAY LIGHTING, AND THE INFORMATION IT CONTAINS MAY NOT BE USED WITHOUT ANY WRITTEN CONSENT OF KAY LIGHTING.



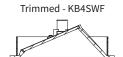
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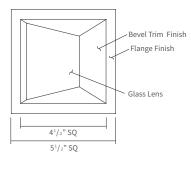
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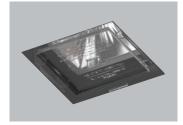


Trimmed - KB4SWF

TRIM DETAILS





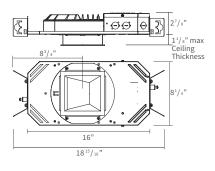


Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

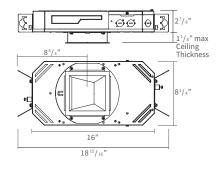
HOUSING OPTIONS

Flat Housing - FT

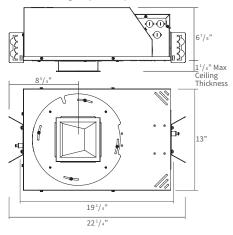
Flat Housing, Chicago Plenum - FTCP



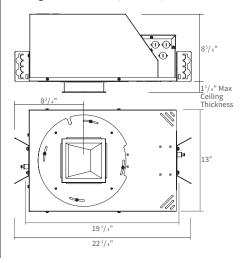
Flat Housing, IC-Rated - FTIC (up to 16W maximum)



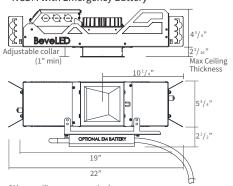
New Construction - NC Insulation-Contact Rated (24W Max) - NCIC Chicago Plenum Rated (24W Max) - NCCP NC with Emergency Battery



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



New Construction Narrow Width - NCSM NCSM with Emergency Battery*



*Above ceiling access required.

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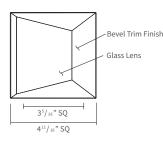


Trimless - KB4SWL

TRIM DETAILS

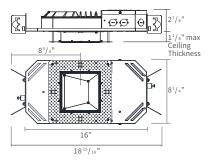
Trimless - KB4SWL



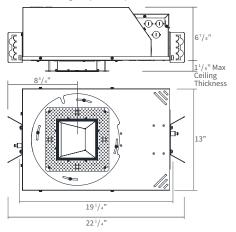


HOUSING OPTIONS

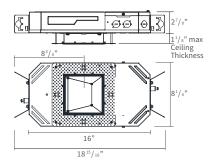
Flat Housing - FT Flat Housing, Chicago Plenum - FTCP



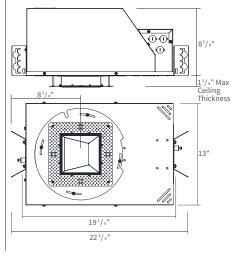
New Construction - NC Insulation-Contact Rated (24W Max) - NCIC Chicago Plenum Rated (24W Max) - NCCP NC with Emergency Battery

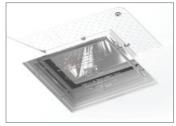


Flat Housing, IC-Rated - FTIC (up to 16W maximum)



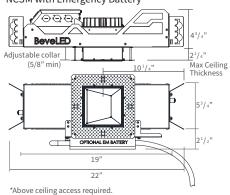
Insulation-Contact Rated (32W-33W) - NCIC Chicago Plenum Rated (32W-36W) - NCCP





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

New Construction Narrow Width - NCSM NCSM with Emergency Battery*



Page 4

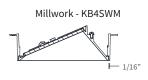
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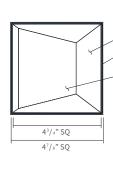
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Millwork - KB4SWM

TRIM DETAILS





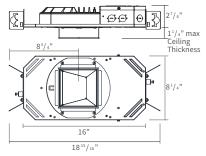
Bevel Trim Finish Millwork collar finish provided to match bevel fi nish unless otherwise specifi ed. Glass Lens



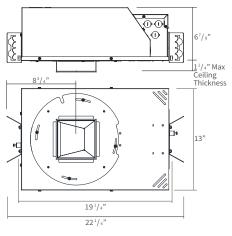
Clear acrylic overspray protector provided standard with every housing to keep out dust and contaminants during construction. Allows for use as work light.

HOUSING OPTIONS

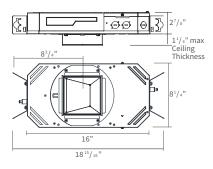
Flat Housing - FT Flat Housing, Chicago Plenum - FTCP



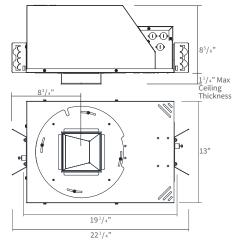
New Construction - NC Insulation-Contact Rated (24W Max) - NCIC Chicago Plenum Rated (24W Max) - NCCP NC with Emergency Battery



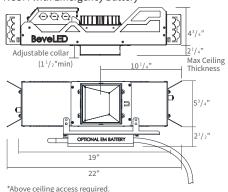
Flat Housing, IC-Rated - FTIC (up to 16W maximum)



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



New Construction Narrow Width - NCSM NCSM with Emergency Battery*



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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 and is provided 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. EM battery is located inside NC housing and can be serviced through the aperture from below the ceiling plane; NCSM housings 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.



Remote Emergency Test Switch included, NCSM housing requires above ceiling access.

HOUSING

All BeveLED 2.2 fi xtures are field-flexible which allow for field changes from trimless or millwork to trimmed with a simple components change with parts from USAI. All-Ways Square[®] (covered by US Pat. No: US 7,832,889) housing allows alignment of square aperture (up to 20° rotation) after housing installation and prior to fhish ceiling installation. 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.

ADJUSTMENT

362° horizontal locking in 90° increments.

MOUNTING

B4SWF overlap fl ange fixtures are designed for use in sheetrock, acoustical ceiling tile, and many other ceiling materials. KB4SWL trimless fixtures are provided with a spackle collar and are designed for use in sheetrock/mud-in ceiling applications. B4SWM millwork fi xtures are provided with a millwork collar in finish to match trim finish specified and are designed for use in wood/millwork, stone and tile construction applications. Butterfy 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

B4SWF Trimmed with Overlap Flange: 5-1/16" x 5-1/16" B4SWL Trimless Spackle-in: 5-1/2" x 5-1/2" B4SWM Millwork: Knife-edge 4-15/16" x 4-15/16"

LISTINGS

Dry/Damp/Wet location. AC and AB trim fi nishes 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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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.



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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

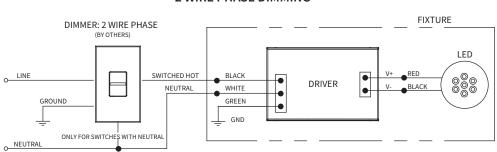
- SAVE THESE INSTRUCTIONS

- 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	patibility Chart			
			Dimmed Light	Qty Fixtures I	Per Dimmer*
Manufacturer	Product	Part Number	Output Range		Wattage
120V Only			1	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

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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%)

	D4	/ DIML4 3-Wire Dimmer Compatibil			a
Manufacturer	Droduct	Part Number	Dimmed Light Output Range	Qty Fixtures Per	<u>r Control*</u> Wattage
120V Only	Product	Part Number	Output Kange	39W and Less	40W - 80W
ETC	Sensor+Cabinet	D20 Dimming module	100%-1%	1-53	<u>4010 - 8010</u> 1–26
ETC	Unison DRd Cabinet	D20F Dimming module	100%-1%	1-53	1-26
Lutron	Nova T	NTF-10-	100%-1%	1-55	1-20
Lutron	Nova T	NTF-103P-	100%-1%	1-20	<u>1 - 20</u> 1 - 10
Lutron	Nova	NF-10-	100%-1%	1-20	1-10
Lutron	Nova	NF-10- NF-103P-	100%-1%	1-20	<u>1 - 20</u> 1 - 10
			100%-1%	1-20	
Lutron	Vareo	VF-10-			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	Maestro Wireless	MRF2-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	MRF2-F6AN-DV-	100%-1%	1-33	1-16
Lutron	RadioRA 2	RRD-F6AN-DV-	100%-1%	1–33	1-16
Lutron	HomeW orks 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.

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D4 / DIML4Continued

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.

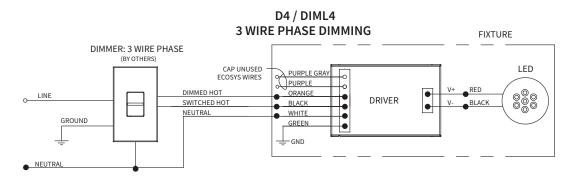
IMPORTANT SAFETY INSTRUCTIONS

- 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%)

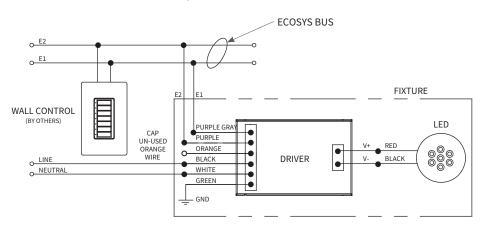


D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with EcoSystem Control / LED Dimming Driver Wiring (Dims down to

D4 / DIML4 EcoSystem Dimmer Compatibility Chart								
		· ·	Dimmed Light	Qty Fixtures P	er Control*			
Manufacturer	Product	Part Number	Output Range	Fixtur	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	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:

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).

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	Qty Fixtures Pe	r Control*		
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		

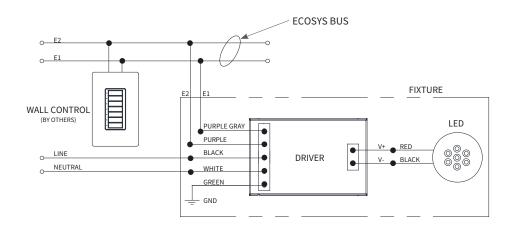
* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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

D4H / DIML4H EcoSystem Dimmer Compatibility Chart							
Dimmed			Dimmed Light	Qty Fixtures Pe	r Control*		
			Output Range	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	QSGRJE, QSGRE	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.

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

- 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).

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.g., Lutron and 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								
			Dimmed Light	Qty Fixtures				
Manufacturer	Product	Part Number	Output Range	Per Dimmer*				
120V & 277V			DIML6A 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 minimum				
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-3E-1R	100% - 0.1% 1%					

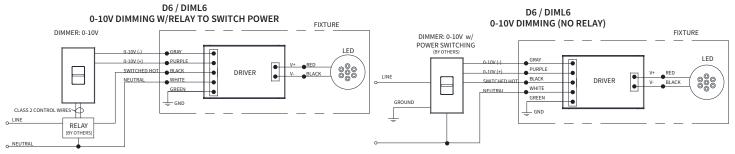
D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-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 Dimmer Compatibility Chart									
Manufacturer	Product	Part Number	Dimmed Light Output Range	Qty Fixtures Per Dimmer*						
120V & 277V			DIM,L6B 6F							
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1% 19	⁶ Refer to						
Jung	Electronic potentiometer	240-10	100% - 0.1% 19	manufacturer's						
Leviton	Iluma Tech dimmer	IP710-DLX	100% 0.1%	[%] dimmor load						
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FA M 120	100% - 0.1% 19	0 rating for						
Merten	Electronic potentiometer	5729	100% - 0.1% 19	maximum and						
Pass & Seymour	Titan	CD4FB-W	100% - 0.1% + 1%							
Watt Stopper	Miro	DCLV1	100% - 0.1% 1	⁰ guantities per						
Synergy	Wallbox Dimmers	ISD BC	100%0-0.1%0 1 1%	⁰ dimmor						
ABB	i-bus	SD/S 2.16.1	100% - 0.1% 19	Enlighted						
Crestron	Modules	GLX-DIM FLV8, GLXP-DIM FLV8	100% - 0.1% 19	6 compatible						
Crestron	Green Light	GLPAC-DIM FLV4-, GLPAC-DIM FLV8-	100% - 0.1% 19	6 compatibite.						
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1% 19	6						
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1% 19	6						
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIM FLV4	100% - 0.1% 19	6						
Crestron	iLux 0-10V Dimmer Expansion M odule	CLS-EXP-DIM FLV	100% - 0.1% 19	6						
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 runter. 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

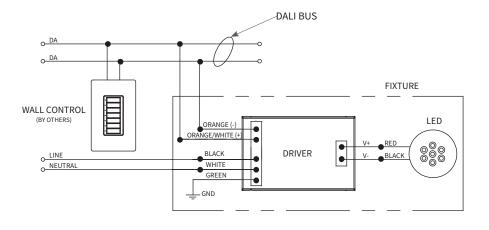
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

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

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%





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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.

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).

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%

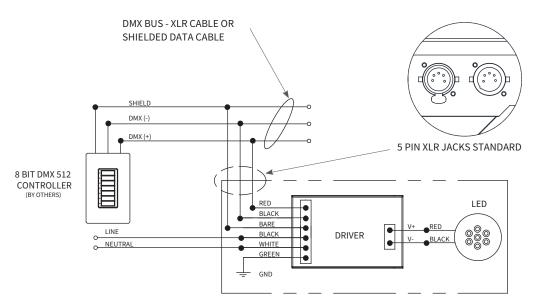
DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

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 **ft**ure in line on a circuit to avoid signal loss.





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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

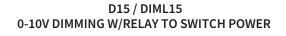
- SAVE THESE INSTRUCTIONS

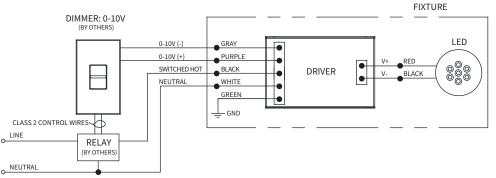
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are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

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

	/ 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%	anne tead ruting.

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





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.

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D18

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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- 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).

D18 Dimming Driver Wiring

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

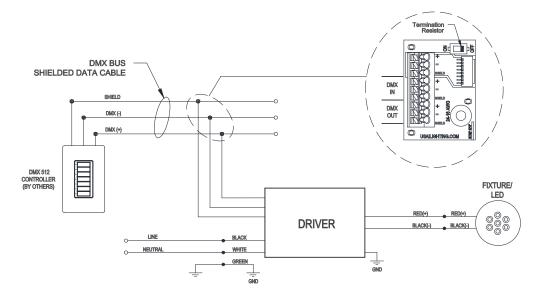
DMX BUS -SHIELDED DATA CABLE

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:

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

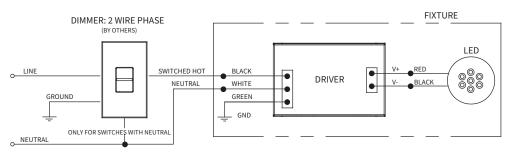
- SAVE THESE INSTRUCTIONS

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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).

D19 / DIML19 LED: 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**



120V ONLY		
Forward Phase /	TRIAC Dimming	
Manufacturer	Product	Qty Fixtures Per Dimm
Louistan.	101.00 107	Line Contained the second

D19 / DIML19 Dimmer Compatibility Chart

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			
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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