

PROJECT INFORMATION



DATE

TYPE



1" Regress

BeveLED 2.1 Recessed Adjustable - BeveLED 2.1 is the most complete recessed LED downlight product family available from USAI Lighting, now with more BeveLED trim finishes, LED classic white color temperatures, innovative housing styles, and dimming driver options than before. With industry-leading performance, BeveLED 2.1 can provide a solution for any project - commercial, corporate and residential installations. **DELIVERED PERFORMANCE**

	BeveLED 2.1	9 W	atts	12 W	latts	16 W	16 Watts		/atts	33 Watts		ts 36 Watts	
	ADJUSTABLE		90+		90+		90+		90+		90+		90+
		80+	HIGH	80+	HIGH	80+	HIGH	80+	HIGH	80+	HIGH	80+	HIGH
	Color Rendering Index	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI	CRI
25°/30°	Lumens per Watt	95	74	81	64	81	64	75	59	64	53	89	69
Performance	Source Lumens	1150	900	1300	1025	1725	1350	2400	1875	3025	2350	4150	3250
Data	Delivered Lumens	850	675	975	750	1300	1025	1800	1400	2250	1750	3000	2350
10°	Lumens per Watt			83	71	84	70	78	65	71	59		
erformance	Source Lumens			1150	1000	1575	1300	2175	1800	2725	2275		
Data	Delivered Lumens			1000	850	1350	1125	1875	1550	2350	1950		
	Color Consistency		2-Step MacAdam Ellipse										
	Note: 25°/30° data includes solit	e glass ler	ns. 10° data	does not	include le	ns.							



1" Regress Regress ish nish 31/2" x 31/2 41/2" x 41/2" 5½" x 5½"

HOW TO SPECIFY

Ordering Example: Specify trim code and housing code to order: Example : 3131W - B1-S - 10 - LSTA4 - 8412 - C3 - 27KS - 25 - NC - 277V - DIML2 - CB27 TRIM ORDERING INFORMATION OPTICAL ACCESSORIES

			OF ITGAL AGGESSONIES
TRIM OPTION 3131	BEVEL STYLE	LENS FLANGE FINISH	(Order separately)
3131 W Wet location Square Adjustable 1" Adjustable 1" Regress 1 Wet location, use with trims only.	Matches Flange Finish AB1 1" Regress Bevel, Black Anodized AC1 1" Regress Bevel, Clear Matte Anodized 31	N No Glass 01 Clear Matte (AC Bevel only) (use for 10°) 02 Black Anodized (AB Bevel Onl) S Solite 10 White (use for 25°) 13 Statuary Bronze F Frosted 21 Black C Clear 28 Metalized Grey (use for 10°) RAL Custom Color (specify RAL #)	AL10E AL15E AL30E AL30E AL30E AL30F
UQUCING ODDEDING INFORM			

HOUSING ORDERING INFORMATION

Lighting

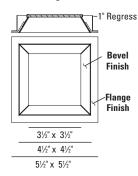
HOUSING CODE	WATTAGE	ENGINE	COLOR	REFLECTOR	HOUSING TYPE	SELECT ONE Voltage	DIMMING DRIVER OPTIONS	ACCESSORIES
LSTA4	-	-	-	-	_			-
LSTA4	8409 9W LED 8412 12W LED 8416 16W LED 8424 24W LED	C3	27KS 2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI	25 25° beam ²	NC New Construction, all in one CP Chicago Plenum IC Insulation-Contact Rated / Airtight ³	120V 277V	For use with 120V or 277V DIML2 0-10V dim, 10% (provided standard) DIML4 Lutron A 3-wire/ECO, 1% DIML4E Lutron 5 ECO. 5% ⁴	CB27 27" C-Channel Bars CB52 52" C-Channel Bars EML Emergency battery ⁷ EMLW Emergency battery, wet location ⁷
	8433 33W LED	C2	40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI 30KH 3000K, 90+ CRI	10 10° beam ²	_		DIML4H Lutron H ECO, 1% Fade 4 DIML6A EldoLED 0-10V, 0.1%, logarithmic / Lutron controls	
	8412 12W LED 8416 16W LED 8424 24W LED 8433 33W LED	62	27KS 2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI	10 10° beam 4			DIML6B EldoLED 0-10V Linear, 0.1%, linear controls DIML6E EldoLED 0-10V, 1%, logarithmic/Lutron controls DIML6F EldoLED 0-10V, 1%, linear controls	
	8436 36W LED	E1	30KH 3000K, 90+ CRI	30 30° beam			DIML7 EldoLED DALI, 0.1% DIML8 EldoLED DMX, 0.1% ⁵	
	See performance chart for		2 Step MacAdam ellipse is standard for all		See emergency solutions chart for EM options with these	120V	For use with 120V only DIML3 Lutron A 2-wire, 1% 120V only DIML19 Phase 2-wire dimming, 1% 120V only ^{4, 5, 6}	
	precise lumen information.				housings	347V	For use with 347V only DIML15 0-10V dim, 1% 347 only	
			² Not available with E1 light engine		³ Not available with E1 light engine	⁴ N/A with 9W ⁵ N/A with 33V ⁶ N/A with E1	Ň	⁷ See emergency solutions chart for more details on EM options. Not available with 347V
SAI®		ww.usailig fo@usailig	3	26 River Road w Windsor, NY	T 845–565–4 12553 F 845–561–1			© 2015. USAI, LLC. All rights reserved. All designs protected by copyrights

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Beveled^{*}2.1 Additional trim information



1" Regress



BeveLED 2.1 Optic	cal Access	sories Mat	rix
if you want		have	
•	10°	25°	30°
15° beam	AL10E	N/A	N/A
20° beam	AL15E	N/A	N/A
25° beam	AL30E	N/A	N/A
35° beam	N/A	AL20F	N/A
40° beam	N/A	AL30F	AL20F
45° beam	N/A	AL40F	AL30F
55° beam	N/A	AL55F	AL40F
60° beam	N/A	AL80F	AL55F
20x60° beam	AS61E	N/A	N/A
40x60° beam	N/A	AS61F	AS61F
	size E	size F	size F

Chicago Plenum (24W and less) - CP

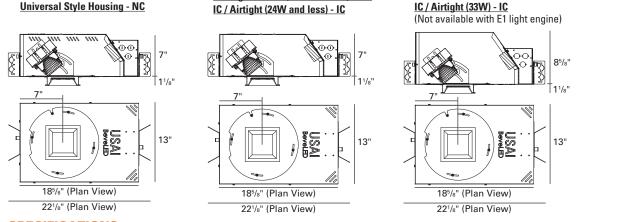
	3131 Emergency	Solutions		
	EM	Integral	Remote	Inverter
Housing	SERVICE	Test Switch	Test Switch	By Others
NC	Through aperture		X	
CP	N/A			X
IC	N/A			х

347V cannot be offered with EM

Chicago Plenum (33W and 36W) - CP

HOUSING INFORMATION

New Construction



SPECIFICATIONS

TRIM: 4-1/2" square aperture with a 1" regressed bevel and 1/2" flange, retained by two mounting clips. Die cast aluminum bevel is self-flanged and is available in white, statuary bronze, black, and metalized grey finishes. Also available in black anodized or clear matte anodized bevel with self-finish or with contrasting painted flange. Custom color flanges available (provide RAL#).

TRIM LENS: 25° and 30° trim is shipped with integral solite lens. 10° does not come with a solite lens unless selected as an option. Frosted lens option available for both. 10° wet location is provided with a clear lens.

REFLECTOR: Interchangeable precision injection molded specular polycarbonate reflector optimized for 10°, 25° or 30° beam distribution. Note: 10° optic requires dedicated 10° light engine. 10° is not available with E1 light engine.

ADJUSTMENT: True hot aiming with center beam optics is adjustable, with a completely tool-less mechanism. 0°-40° lockable vertical tilt with 362° lockable rotation.

FIELD REPLACEABLE LIGHT ENGINE: Available in 6 lumen packages. Engine is field replaceable through the aperture without tools. See performance chart for precise lumen output information.

COLOR: BeveLED 2.1 is available in 5 color temperatures (2200K, 2700K, 3000K, 3500K, 4000K). All color options are tightly binned for fixture-to-fixture color consistency within a 2-Step MacAdam Ellipse. 80+ color rendering index provided standard. 90+ CRI available for 2700K and 3000K CCTs. 2200K is not available with 10° or E1 light engine.

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

THERMAL MANAGEMENT: Proprietary high performance aluminum die cast heatsink for maximum LED life. Ambient temperatures at fixture location should not exceed 40°C during normal operation.

FIELD REPLACEABLE DRIVER: 0-10V, 100%-10% solid state electronic constant current driver with a high power factor provided standard and sources 2mA. Specify 120V or 277V. Driver complies with IEEE C62.41 surge protection.

DIMMING OPTIONS: Multiple dimming drivers available. See compatibility chart attached. Some on-time delay may be experienced depending on control system used. Note: DIML6A and DIML6E logarithmic control are intended for use with Lutron control systems; DIML6B and DIML6F linear control are intended for use with non-Lutron controls. DIML15 and DIML6 dimming drivers source 2mA.

EMERGENCY: Fixtures provided with a remote test switch are provided with a 24" lead length for location of the test switch. Fixtures that have no USAI EM option may be connected to an inverter (by others) for emergency lighting. See emergency solutions chart for more information on EM test switches and servicing.

MOUNTING: Butterfly brackets and adjustable nailer bars with integral nails provided. Nailer bars are extendible from 14" to 24" centers. C-channel bars are optionally available for acoustical ceiling applications.

MAXIMUM CEILING THICKNESS: As per drawings above.

ACCESSORY HOLDER: Snap in accessory holder shipped with fixture.

10° accepts "E" size lens, maximum 2. 25° accepts "F" size lens, maximum 2. 30° accepts "F" size lens, maximum 2.

CEILING CUT OUT: 5-1/16" x 5-1/16"

HOUSING: 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 finish ceiling installation. Fabricated of 20 ga. galvanized steel with thru wire J-box, 4 in 4 out at min. 90°C, #12 AWG thru branch circuit wiring. IC-rated housings for use with 9W, 12W, and 16W light engines only are rated for direct contact with spray foam insulation of R-42 or less. IC rated housing is not available with E1 light engine.

LISTINGS: Dry/Damp. Wet location option available with B1 trim only. NRTL/CSA-US tested to UL standards. IBEW union made. Energy Star Qualified under Luminaires Specification V2.0. Please see Energy Star website for exact model #s included in the listing. Please note that the following options are not Energy Star qualified: 22KS, 27KH, and 30KH light engines; E1 light engines; B-13, B-21, and AB trim styles; Frosted lens and EM options. CEC/Title 24 Compliant up to 16W maximum. See CEC website for exact models included.



Not for use in corrosive environment.
Use of pressure washer voids warranty.

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



1126 River Road New Windsor, NY 12553 T 845–565–8500 F 845–561–1130



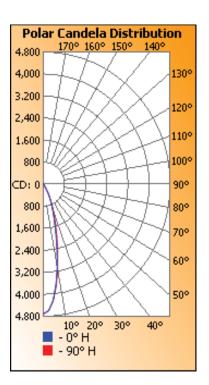
DELIVERED PERFORMANCE

3131 / 3431 16W 30KS 25°

Coeffici	ents	Of U	tiliza	ation	- Zoi	nal C	avit	y Me	thod									
											Effe	ective	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			50			<i>30</i>			10		0
RW %:	<u>70</u>	<u>50</u>	30	<u>0</u>	70	50	30	<u>0</u>	50	30	<u>20</u>	<u>50</u>	<u>30</u>	<u>20</u>	50	<u>30</u>	<u>20</u>	<u>0</u>
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.10	1.09	1.12	1.10	1.09	.96	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2	1.11	1.07	1.04	1.01	1.08	1.05	1.02	.93	1.02	1.00	.98	.99	.97	.96	.96	.95	.94	.92
3	1.07	1.02	.98	.95	1.05	1.00	.97	.89	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88
4	1.03	.97	.93	.90	1.01	.96	.92	.86	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
5	.99	.93	.89	.85	.98	.92	.88	.82	.90	.87	.84	.89	.86	.83	.88	.85	.83	.82
6	.96	.89	.85	.81	.95	.89	.84	.79	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
7	.93	.86	.81	.78	.92	.85	.81	.77	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
8	.90	.83	.78	.75	.89	.82	.78	.74	.81	.77	.75	.80	.77	.74	.80	.76	.74	.73
9	.87	.80	.75	.72	.86	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.71
10	.85	.77	.73	.70	.84	.77	.73	.69	.76	.72	.70	.75	.72	.69	.75	.72	.69	.68

Zonal	Lumen S	Summary
Zone	Lumens	% Luminaire
0-30	1,185.7	92.3%
0-40	1,268.1	98.7%
0-60	1,282.9	99.9%
60-90	1.6	0.1%
70-100	0.2	0%
90-120	0	0%

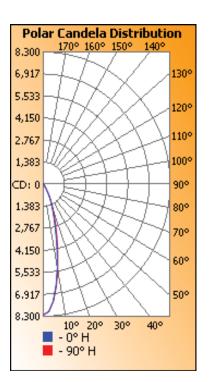
Center Beam fc Beam Width 2.0ft 1,181.6 fc 0.9 ft 0.9 ft 4.0ft 295.4 fc 1.8 ft 1.9 ft
2.0tt 295.4 fc 1.8 ft 1.9 ft
2954Fc 18F 19F
4.0ft 131.3 fc 2.7 ft 2.8 ft
8.0ft 73.8 fc 3.6 ft 3.7 ft
47.3 fc 4.5 ft 4.7 ft
12.0ft 32.8 fc 5.4 ft 5.6 ft
12.0ft 24.1 fc 6.3 ft 6.5 ft
16.0ft 18.5 fc 7.2 ft 7.5 ft
Vert. Spread: 25.2° Horiz. Spread: 26.3°



3131 / 3431 33W 30KS 25°

Coeffici	ents	Of U	tiliza	ation	- Zoi	nal C	avit	y Me	thod									
											Effe	ective	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			50			30			10		0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.12	1.10	1.09	1.12	1.10	1.09	.96	1.06	1.05	1.04	1.03	1.02	1.01	.99	.98	.98	.96
2	1.11	1.07	1.04	1.01	1.08	1.05	1.02	.93	1.02	1.00	.98	.99	.97	.96	.96	.95	.94	.92
3	1.07	1.02	.98	.95	1.05	1.00	.97	.89	.98	.95	.92	.95	.93	.91	.93	.91	.90	.88
4	1.03	.97	.93	.90	1.01	.96	.92	.86	.94	.91	.88	.92	.89	.87	.90	.88	.86	.85
5	.99	.93	.89	.85	.98	.92	.88	.82	.90	.87	.84	.89	.86	.83	.88	.85	.83	.82
6	.96	.89	.85	.81	.95	.89	.84	.79	.87	.83	.81	.86	.83	.80	.85	.82	.80	.79
7	.93	.86	.81	.78	.92	.85	.81	.77	.84	.80	.78	.83	.80	.77	.82	.79	.77	.76
8	.90	.83	.78	.75	.89	.82	.78	.74	.81	.77	.75	.80	.77	.74	.80	.76	.74	.73
9	.87	.80	.75	.72	.86	.79	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.72	.71
10	.85	.77	.73	.70	.84	.77	.73	.69	.76	.72	.70	.75	.72	.69	.75	.72	.69	.68

Zonal	Lumen S	Summary	Illuminance at	a Distance
Zone	Lumona	% Luminaire	Center Beam fc	Beam Width
ZONE	Lumens	76 Luminaire	2,0ft 2,058.5 fc	0.9 ft 0.9 ft
0-30	2,065.7	92.3%	4.0ft 514.6 fc	1.8 ft 1.9 ft
0-40	2,209.1	98.7%	4.0rt 228.7 fc	2.7 ft 2.8 ft
			8.0ft 128.7 fc	📕 3.6 ft 3.7 ft
0-60	2,235.1	99.9%	10.0ft 82.3 fc	4.5 ft 4.7 ft
60-90	2.8	0.1%	12.0ft 57.2 fc	5.4 ft 5.6 ft
	100		12.01 42.0 fc	6.3 ft 6.5 ft
70-100	0.4	0%	16.0ft 32.2 fc	7.2 ft 7.5 ft
90-120	0	0%	Vert. Spread: 25.2° Horiz. Spread: 26.3°	





BeveLED².1

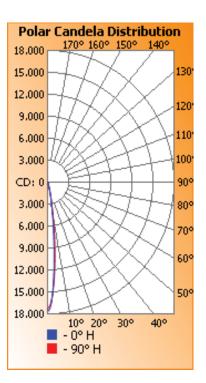
DELIVERED PERFORMANCE

3131 / 3431 16W 30KS 10°

Coeffici	ents	Of U	tiliza	ation	- Zoi	nal C	avit	y Me	thod									
											Effe	ective	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	<u>70</u>	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.14	1.12	1.10	1.13	1.11	1.10	.98	1.07	1.06	1.05	1.04	1.03	1.02	1.00	1.00	.99	.98
2	1.12	1.09	1.06	1.04	1.10	1.07	1.05	.96	1.04	1.02	1.01	1.01	1.00	.99	.99	.98	.97	.95
3	1.09	1.05	1.02	.99	1.07	1.04	1.01	.93	1.01	.99	.97	.99	.97	.96	.97	.95	.94	.93
4	1.06	1.02	.98	.96	1.05	1.01	.98	.92	.99	.96	.94	.97	.95	.93	.95	.94	.92	.91
5	1.04	.99	.95	.93	1.03	.98	.95	.90	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
6	1.02	.96	.93	.90	1.01	.96	.92	.88	.95	.92	.89	.93	.91	.89	.92	.90	.88	.87
7	1.00	.94	.91	.88	.99	.94	.90	.87	.93	.90	.88	.92	.89	.87	.91	.89	.87	.86
8	.98	.92	.89	.86	.97	.92	.89	.85	.91	.88	.86	.90	.88	.86	.89	.87	.85	.85
9	.96	.91	.87	.85	.95	.90	.87	.84	.89	.87	.85	.89	.86	.84	.88	.86	.84	.83
10	.94	.89	.86	.84	.94	.89	.86	.83	.88	.85	.83	.87	.85	.83	.87	.85	.83	.82

Zonal Lumen Summary											
Lumens	% Luminaire										
1,242.2	92.2%										
1,291.6	95.9%										
1,339.5	99.5%										
7.1	0.5%										
3.2	0.2%										
0	0%										
	Lumens 1,242.2 1,291.6 1,339.5 7.1 3.2										

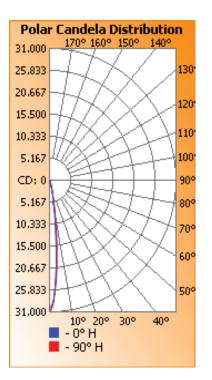
Illuminance at a Distance								
	Center Beam fc	Beam Width						
2.0R	4,334.6 fc	0.4 ft	0.5 ft					
4.0ft	1,083.7 fc	0.9 ft	1.0 ft					
4.0R	481.6 fc	1.3 ft	1.4 ft					
8.0R	270.9 fc	1.7 ft	1.9 ft					
10.0R	173.4 fc	2.1 ft	2.4 ft					
12.0R	120.4 fc	2.6 ft	2.9 ft					
12.0R	88.5 fc	3.0 ft	3.3 ft					
14.0R	67.7 fc	3.4 ft	3.8 ft					
	Vert. Spread: 12.2° Horiz. Spread: 13.6°							



3131 / 3431 33W 30KS 10°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											Effe	ctive	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			50			<i>30</i>			10		0
RW %:	<u>70</u>	50	30	0	<u>70</u>	50	30	<u>0</u>	50	30	<u>20</u>	50	30	20	50	30	20	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.14	1.12	1.10	1.13	1.11	1.10	.98	1.07	1.06	1.05	1.04	1.03	1.02	1.00	1.00	.99	.98
2	1.12	1.09	1.06	1.04	1.10	1.07	1.05	.96	1.04	1.02	1.01	1.01	1.00	.99	.99	.98	.97	.95
3	1.09	1.05	1.02	.99	1.07	1.04	1.01	.93	1.01	.99	.97	.99	.97	.96	.97	.95	.94	.93
4	1.06	1.02	.98	.96	1.05	1.01	.98	.92	.99	.96	.94	.97	.95	.93	.95	.94	.92	.91
5	1.04	.99	.95	.93	1.03	.98	.95	.90	.97	.94	.92	.95	.93	.91	.94	.92	.90	.89
6	1.02	.96	.93	.90	1.01	.96	.92	.88	.95	.92	.89	.93	.91	.89	.92	.90	.88	.87
7	1.00	.94	.91	.88	.99	.94	.90	.87	.93	.90	.88	.92	.89	.87	.91	.89	.87	.86
8	.98	.92	.89	.86	.97	.92	.89	.85	.91	.88	.86	.90	.88	.86	.89	.87	.85	.85
9	.96	.91	.87	.85	.95	.90	.87	.84	.89	.87	.85	.89	.86	.84	.88	.86	.84	.83
10	.94	.89	.86	.84	.94	.89	.86	.83	.88	.85	.83	.87	.85	.83	.87	.85	.83	.82

Zonal	Lumen 9	5ummary		Illuminance at	a Distance	
Zone		% Luminaire		Center Beam fc	Beam V	Vidth
			2.0ft	7,551.6 fc	0.4 ft	0.5 f
-30	2,164.2	92.2%		1,887.9 fc	0.9 ft	1.0 f
-40	2,250.2	95.9%	4.0R 6.0R	839.1 fc	1.3 ft	1.4 f
60	2,333.6	99.5%	8.0R	472.0 fc	1.7 ft	1.9 f
			10.0ft	302.1 fc	2.1 ft	2.4 f
0	12.5	0.5%		209.8 fc	2.6 ft	2.9 f
100	5.5	0.2%	12.0ft	154.1 fc	3.0 ft	3.3 f
20	0	0%	14.0ft 16.0ft	118.0 fc	3.4 ft	3.8 f
		0.00		Vert. Spread: 12.2° Horiz. Spread: 13.6°		





T 845-565-8500 F 845-561-1130



DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D2 / DIML2

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.

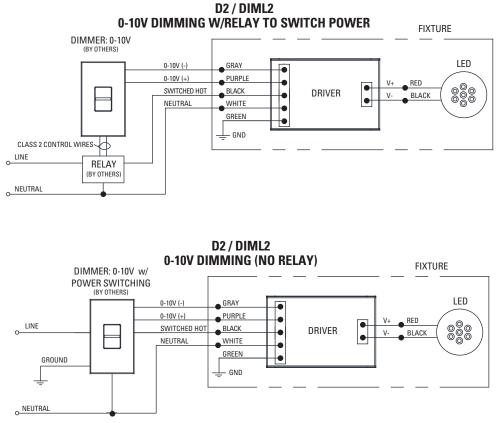
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

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

D2 / DIML2 LED: 0-10V Dimming Driver Wiring (Dims down to 10%)

	D2 / DIML2 Dimmer Compatibility Chart								
Manufacturer	Product	Part Number	Dimmed Light Output Range	Oty Fixtures Per Dimmer*					
120V / 277V				Use source current per					
Crestron	iLux dimmer expansion module	CLS-EXP-DIMFLV	100% - 10%	fixture specification					
Crestron	DIN Rail dimmer	DIN-4DIMFLV4	100% - 10%	sheet to determine					
Crestron	DIN Rail analog output module	DIN-A08	100% - 10%	number of fixtures per					
Crestron	8 Channel dimmer module	GLX-DIMFLV8	100% - 10%	dimmer. Max number					
Crestron	8 Channel dimmer module	GLXP-DIMFLV8	100% - 10%	of fixtures is limited by					
Leviton	IllumaTech dimmer	IP710-DLX	100% - 10%	dimmer load rating.					
Lightolier (Philips)	Vega	V2000FAMU	100% - 10%	anning.					
Lutron	Diva	DVTV-XX	100% - 10%						

* 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.

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.



T 845–565–8500 F 845–561–1130



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

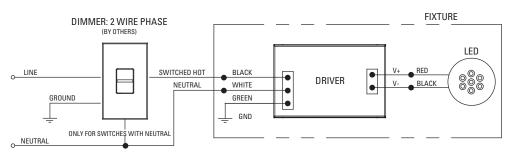
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are 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 Compatibility Chart							
		-	Dimmed Light	Qty Fixtures I				
Manufacturer	Product	Part Number	Output Range		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	Grafik 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%)

	D4	/ DIML4 3-Wire Dimmer Compatibili			
NA	Duralizat	Do at Neurola au	Dimmed Light	Oty Fixtures Per	
Manufacturer	Product	Part Number	Output Range		Wattage
120V Only	0 01: 1	D00 D' '	1000/ 10/	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	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%	144	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	Maestro Wireless	MRF2-F6AN-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.



DIML4 wiring diagrams continued on next page

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DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D4 / DIML4 Continued

DIMMING DRIVER WIRING SCHEMES:

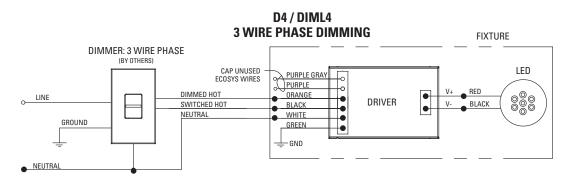
NOTES:

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).

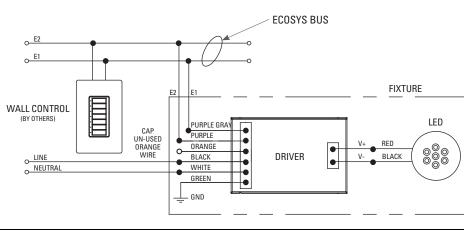
D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)



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	Fixture Wattage				
120V / 277V				39W and Less	40W - 80W			
Lutron	PowPak dimming module	RMJ-EC032-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 / DIML4E and 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 Per Control*							
Manufacturer	Product	Part Number	Output Range	Fixture Wattage				
120V / 277V				39W and Less	40W - 80W			
Lutron	PowPak dimming module	RMJ-EC032-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			

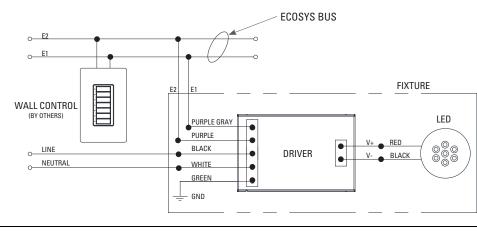
* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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	Qty Fixtures Per Control*			
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage		
120V / 277V			_	39W and Less	40W - 80W		
Lutron	PowPak dimming module	RMJ-EC032-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





Lighting

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	nI0 EZ	100% - 0.1% 1%					
enlighted	Control Unit	CU-3E-1R	100% - 0.1% 1%					

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

D6B / DIML6B and D6F / DIML6F LED Dimming Compatibility Table

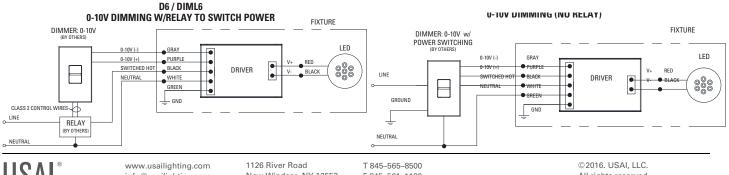
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-Lutron and others listed below) D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to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

	D6B / DIML6B and D6F / DIML6F Dimmer Compatibility Chart									
Manufacturer	Product	Part Number	Dimmed Light Output Range	Qty Fixtures Per Dimmer*						
120V & 277V			DIML6B 6F							
Bush-Jaeger	Electronic potentiometer	2112U-101	100% - 0.1% 1%	Refer to						
Jung	Electronic potentiometer	240-10	100% - 0.1% 1%	manufacturer's						
Leviton	lluma Tech dimmer	IP710-DLX	100% - 0.1% 1%	dimmer load						
Lightolier (Philips)	Momentum (120V ONLY)	ZP600FAM120	100% - 0.1% 1%	rating for						
Merten	Electronic potentiometer	5729	100% - 0.1% 1%	maximum and						
Pass & Seymour	Titan	CD4FB-W	100% - 0.1% 1%	minimum fixture						
Watt Stopper	Miro	DCLV1	100% - 0.1% 1%	quantities per						
Synergy	Wallbox Dimmers	ISD BC	100% - 0.1% 1%	dimmer.						
ABB	i-bus	SD/S 2.16.1	100% - 0.1% 1%	Enlighted						
Crestron	Modules	GLX-DIMFLV8, GLXP-DIMFLV8	100% - 0.1% 1%	compatible.						
Crestron	Green Light	GLPAC-DIMFLV4-, GLPAC-DIMFLV8-	100% - 0.1% 1%	compatible.						
Crestron	Green Light Power Pack	GLPP-DIMFLVEX-PM, GLPP-1DIMFLV2EX-PM, GLPP-1DIMFLV3EX-PM	100% - 0.1% 1%							
Crestron	DIN Rail Analog Output Module	DIN-A08	100% - 0.1% 1%							
Crestron	DIN Rail 0-10V Fluorescent Dimmer	DIN-4DIMFLV4	100% - 0.1% 1%							
Crestron	iLux 0-10V Dimmer Expansion Module	CLS-EXP-DIMFLV	100% - 0.1% 1%							
enlighted	Control Unit	CU-3E-1R	100% - 0.1% 1%							

DIMMING DRIVER WIRING SCHEMES:

Lighting

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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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.

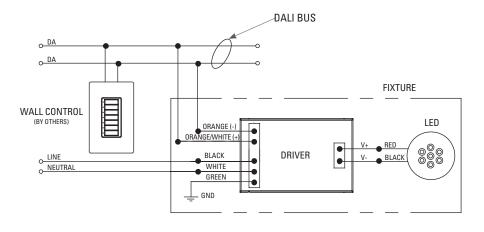
IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 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%









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%

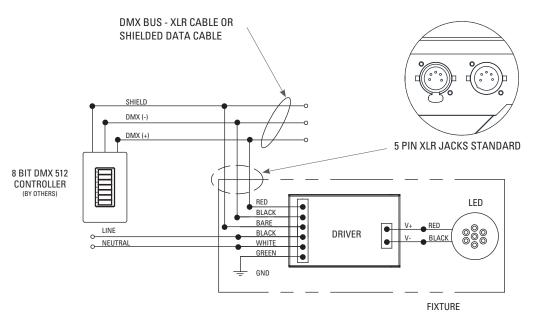
DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

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 fixture 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

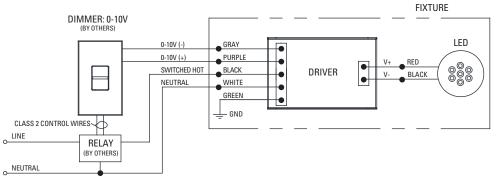
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are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

	D15 / DIML15 Dimmer Compatibility Chart								
Manufacturer	Product	Dimmed Light Output Range	Qty Fixtures Per Dimmer*						
347		output hungo	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%	anniner foad rading.						

* 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.





DIMMING DRIVER COMPATIBILITY SELECTION GUIDE D19 / DIML19

DIMMING DRIVER WIRING SCHEMES:

NOTES:

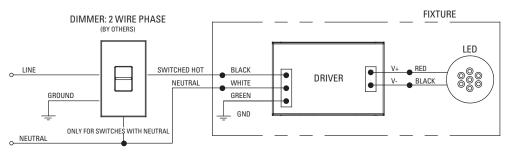
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 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).

<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



DIS/ DIVILIS DIMMER COMPANDING CHAR			
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		

D10 / DIMI 10 Dimmor Compatibility Chart

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		

