

PROJECT INFORMATION

PROJECT

ADJUSTABLE 3231



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

DATE TYPE

		0.144	- 44 -	40.14	1-44-	40.14	1-44-	24.14	- 44 -	22.14	1-44-	20.14	1-44-
	BeveLED 2.1	9 W	atts	12 W	atts	16 W	atts	24 W	atts	33 Watts		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	91	72	78	60	78	61	72	56	64	52	89	69
Performance	Source Lumens	1150	900	1300	1025	1725	1350	2400	1875	3025	2350	4150	3250
Data	Delivered Lumens	825	650	925	725	1250	975	1725	1350	2175	1700	3000	2350
10°	Lumens per Watt			83	71	84	70	78	65	71	59		
Performance	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 solite plass lens 10° does not include lens													

3500K 4000K

80+

CRI

1.06

80+

CRI

1.00

3000K

80+

CRI

1.00

90+

HIGH

CRI

.78

2700K

80+

CRI

80+

CRI

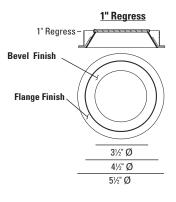
0.72 0.94

90+

HIGH

CRI

0.78



HOW TO SPECIFY

Color Rendering Index

Multiplier for

Lumen Output

Lighting

CCT MULTIPLIER 2200K

Ordering Example: Specify trim code and housing code to order: Example : 3231W - B1- S - 10 - LRTA4 - 8412 - C3 - 27KS - 25 - NC - 277V - DIML2 - CB27 **OPTICAL ACCESSORIES**

TRIM	ORDERING	INFORMATION	
	UNDERING		

90+ CRI is not available for 2200K, 3500K, or 4000K

Ι ΚΙΙΫΙ UKD	EKING INFUKIVIATION	4			
TRIM 3231	OPTION .	BEVEL STYLE	LENS	FLANGE FINISH	(Order separately)
3231 Round Adjustable 1" Regress	W Wet location ¹ ¹ Wet location, use with B1 trims only.	AUT T Hegicas Devel, olear Matte Anouizea	N No Glass (use for 10°) S Solite (use for 25°) F Frosted C Clear (use for 10° wet)	01 Clear Matte (AC Bevel only) 02 Black Anodized (AB Bevel only) 10 White 13 Statuary Bronze 21 Black 28 Metalized Grey RAL Custom Color (specify RAL #)	AL10E AL15ERefer to optical accessories matrix on next page for resulting beamspreadsClearly specify quantity in your orderAL30F AL30Fpage for resulting beamspreads when accessoryIn your orderAL40F AL80Flens is combined 25° opticsSee for source accessory
LIQUICINIC	ODDEDING INCODMAN	TION			Addit

HOUSING ORDERING INFORMATION

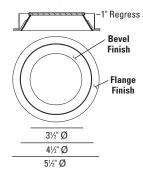
OUSING CODE	WATTAGE	ENGINE	COLOR	REFLECTOR	HOUSING TYPE	SELECT ONE Voltage	DIMMING DRIVER OPTIONS	ACCESSORIES
LRTA4	-	-	-	-	-		-	-
LRTA4	8409 9W LED 8412 12W LED 8416 16W LED 8424 24W LED 8433 33W LED	C3	27KS 2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI	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/EC0, 1% DIML4E Lutron 5 EC0, 5% ⁴ DIML4H Lutron H EC0, 1% Fade ⁴ DIML6A EldoLED 0-10V, 0.1%.	CB27 27" C-Channel Bars CB52 52" C-Channel Bars EML Emergency battery ⁷ EMLW Emergency battery, wet location ⁷
	8412 12W LED 8416 16W LED 8424 24W LED 8433 33W LED	C2	30KH 3000K, 90+ CRI 27KS 2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI	10 10° beam ²	See emergency solutions chart for EM options with these housings		DIML6B EldoLED 0-10V, Litron controls 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 precise lumen		2 Step MacAdam ellipse is standard			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}	
	information.		for all		A	347V	For use with 347V only DIML15 0-10V dim, 1% 347 only	⁷ See emergency solutions chart
			² Not available with E1 ligh engine	t	³ Not available with E1 light engine	 ⁴ N/A with 9W ⁵ N/A with 33' ⁶ N/A with E1 	W	for more details on EM options. Not available with 347V.
ISAI ®				26 River Road w Windsor, NY	T 845–565– 12553 F 845–561–			© 2015. USAI, LLC. All rights reserved.



Bevel FD² 1 ADDITIONAL TRIM INFORMATION



1" Regress

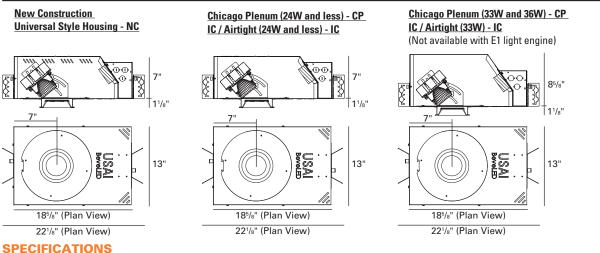


BeveLED 2.1 Optic	al Access	ories Matr	ix
if you want	an	id you hav	e
	10°	25°	30°
15° beam	AL10E	N/A	N/A
20° beam	AL15E	N/A	N/A
25° beam	AL30E	N/A	N/A
35° beam	N/A	AL20F	N/A
40° beam	N/A	AL30F	AL20F
45° beam	N/A	AL40F	AL30F
55° beam	N/A	AL55F	AL40F
60° beam	N/A	AL80F	AL55F
20x60° beam	AS61E	N/A	N/A
40x60° beam	N/A	AS61F	AS61F
	size E	size F	size F

3131 Emergency Solutions												
EM SERVICE	Integral Test Switch	Remote Test Switch	Inverter By Others									
Through aperture		X	Х									
N/A			X									
N/A			х									
	EM SERVICE Through aperture N/A	EM Integral SERVICE Test Switch Through aperture N/A	EM Integral Remote SERVICE Test Switch Test Switch Through aperture X N/A									

347V cannot be offered with EM.

HOUSING INFORMATION



TRIM: 4-1/2" round 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: 9W, 12W, 16W, 24W and 33W. 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.

HOUSING: 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.

CEILING CUT OUT: 5-1/16"Ø

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; C2 and 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.

WARRANTY: 5 years

NOTES:

- 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.

SP



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



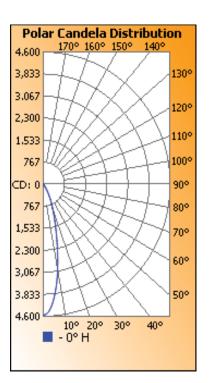
DELIVERED PERFORMANCE

3231 / 3331 16W 30KS 25°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											Effe	ctive	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	70	50	30	0	70	50	30	0	<u>50</u>	30	<u>20</u>	50	30	20	<u>50</u>	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	1.13	1.10	1.09	1.12	1.10	1.09	.96	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2	1.11	1.07	1.04	1.01	1.09	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	.93	.96	.93	.91	.93	.92	.90	.88
4	1.03	.97	.93	.90	1.01	.96	.92	.86	.94	.91	.88	.92	.89	.87	.91	.88	.86	.85
5	1.00	.93	.89	.85	.98	.92	.88	.83	.91	.87	.84	.89	.86	.84	.88	.85	.83	.82
6	.96	.89	.85	.82	.95	.89	.84	.80	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7	.93	.86	.82	.78	.92	.85	.81	.77	.84	.81	.78	.83	.80	.77	.82	.79	.77	.76
8	.90	.83	.78	.75	.89	.82	.78	.74	.81	.78	.75	.81	.77	.75	.80	.77	.74	.73
9	.87	.80	.76	.73	.86	.80	.75	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10	.85	.77	.73	.70	.84	.77	.73	.69	.76	.72	.70	.76	.72	.70	.75	.72	.70	.69

Zonal	Lumen S	Summary
Zone	Lumens	% Luminaire
0-30	1,158.4	92.7%
0-40	1,238.6	99.2%
0-60	1,248.7	100%
60-90	0.5	0%
70-100	0	0%
90-120	0	0%

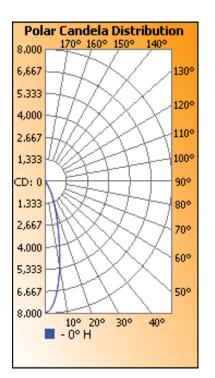
	Illuminance at a	a Distance
	Center Beam fc	Beam Width
2.0R	1,141.7 fc	0.9 ft
4.0ft	285.4 fc	1.8 ft
4.0R	126.9 fc	2.7 ft
8.0R	71.4 fc	3.7 ft
10.0R	45.7 fc	4.6 ft
12.0R	31.7 fc	5.5 ft
12.0R	23.3 fc	6.4 ft
16.0ft	17.8 fc	7.3 ft
	Beam Spread: 25.8°	



3231 / 3331 33W 30KS 25°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											Effe	ctive	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			30			<i>10</i>		0
RW %:	<u>70</u>	50	30	0	70	50	30	0	50	30	<u>20</u>	50	30	<u>20</u>	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	1.13	1.10	1.09	1.12	1.10	1.09	.96	1.06	1.05	1.04	1.03	1.02	1.01	.99	.99	.98	.96
2	1.11	1.07	1.04	1.01	1.09	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	.93	.96	.93	.91	.93	.92	.90	.88
4	1.03	.97	.93	.90	1.01	.96	.92	.86	.94	.91	.88	.92	.89	.87	.91	.88	.86	.85
5	1.00	.93	.89	.85	.98	.92	.88	.83	.91	.87	.84	.89	.86	.84	.88	.85	.83	.82
6	.96	.89	.85	.82	.95	.89	.84	.80	.87	.84	.81	.86	.83	.80	.85	.82	.80	.79
7	.93	.86	.82	.78	.92	.85	.81	.77	.84	.81	.78	.83	.80	.77	.82	.79	.77	.76
8	.90	.83	.78	.75	.89	.82	.78	.74	.81	.78	.75	.81	.77	.75	.80	.77	.74	.73
9	.87	.80	.76	.73	.86	.80	.75	.72	.79	.75	.72	.78	.75	.72	.77	.74	.72	.71
10	.85	.77	.73	.70	.84	.77	.73	.69	.76	.72	.70	.76	.72	.70	.75	.72	.70	.69

Zonal	Lumen 9	Summary			Illuminance at a	a Distance
Zone		% Luminaire			Center Beam fc	Beam Wid
Zone	Lumens	% Luminaire		.oft	1,989.0 fc	0.9 ft
0-30	2,018.1	92.7%		.ort	497.3 fc	1.8 ft
0-40	2,157.8	99.2%		.ort .oft -	221.0 fc	2.7 ft
0-40	2,157.0	33.270		.oft	124.3 fc	3.7 ft
0-60	2,175.4	100%		.oft	79.6 fc	4.6 ft
60-90	0.8	0%		.oft	55.3 fc	5.5 ft
00-90	0.0	0 /6		.oft -	40.6 fc	6.4 ft
70-100) 0	0%		.oft	31.1 fc	7.3 ft
90-120) 0	0%	10.		Beam Spread: 25.8°	





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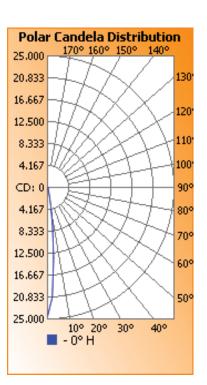
DELIVERED PERFORMANCE

3231 / 3331 16W 30KS 10°

Coefficients Of Utilization - Zonal Cavity Method																		
											Effe	ective	Floor	Cavi	ty Re	flecta	ance:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			10		0
RW %:	70	50	30	0	70	50	30	<u>0</u>	50	30	<u>20</u>	<u>50</u>	30	<u>20</u>	<u>50</u>	30	<u>20</u>	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	1.16	1.14	1.13	1.11	1.14	1.12	1.11	.99	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.01	1.00	.98
2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	.97	1.06	1.04	1.02	1.03	1.01	1.00	1.00	.99	.98	.97
3	1.11	1.07	1.04	1.02	1.09	1.06	1.03	.96	1.03	1.01	1.00	1.01	1.00	.98	.99	.98	.97	.96
4	1.08	1.04	1.01	.99	1.07	1.03	1.01	.95	1.01	.99	.97	1.00	.98	.96	.98	.97	.95	.94
5	1.06	1.02	.99	.97	1.05	1.01	.98	.94	1.00	.97	.95	.98	.96	.95	.97	.95	.94	.93
6	1.05	1.00	.97	.95	1.04	.99	.96	.92	.98	.96	.94	.97	.95	.93	.96	.94	.93	.92
7	1.03	.98	.95	.93	1.02	.98	.95	.91	.97	.94	.92	.96	.94	.92	.95	.93	.92	.91
8	1.01	.97	.94	.92	1.01	.96	.93	.90	.95	.93	.91	.95	.92	.91	.94	.92	.91	.90
9	1.00	.95	.92	.90	.99	.95	.92	.89	.94	.92	.90	.94	.91	.90	.93	.91	.90	.89
10	.99	.94	.91	.89	.98	.94	.91	.89	.93	.91	.89	.93	.90	.89	.92	.90	.89	.88

Zonal Lumen Summary						
Zone Lumens % Luminaire						
0-30 1,282.7 96%						
0-40 1,316.2 98.5%						
0-60 1,336.3 100%						
60-90 0.0 0%						
70-100 0 0%						
90-120 0 0%						

Illuminance at a Distance							
	Center Beam fc	Beam Width					
2.0R	6,105.2 fc	0.4 ft					
4.0R	1,526.3 fc	0.8 ft					
4.0R	678.4 fc	1.2 ft					
8.0R	381.6 fc	1.5 ft					
10.0R	244.2 fc	1.9 ft					
12.0R	169.6 fc	2.3 ft					
12.0ft	124.6 fc	2.7 ft					
16.0ft	95.4 fc	3.1 ft					
	Beam Spread: 11.0°						



3231 / 3331 33W 30KS 10°

Zonal Lumen Summary

Zone Lumens % Luminaire

0.0

0

0

96%

98.5%

100%

0%

0%

0%

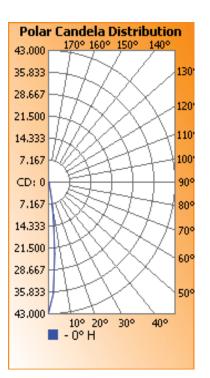
2,234.6

0-40 2,293.1

0-60 2,328.0

Coefficie	Coefficients Of Utilization - Zonal Cavity Method																	
	Effective Floor Cavity Reflectance: 20%																	
RCC %:		8	0			7	0			<i>50</i>			30			10		0
RW %:	<u>70</u>	50	<u>30</u>	<u>0</u>	70	<u>50</u>	30	<u>0</u>	50	<u>30</u>	<u>20</u>	<u>50</u>	30	<u>20</u>	50	30	<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	1.16	1.14	1.13	1.11	1.14	1.12	1.11	.99	1.08	1.07	1.06	1.05	1.04	1.03	1.01	1.01	1.00	.98
2	1.13	1.10	1.08	1.06	1.11	1.09	1.07	.97	1.06	1.04	1.02	1.03	1.01	1.00	1.00	.99	.98	.97
3	1.11	1.07	1.04	1.02	1.09	1.06	1.03	.96	1.03	1.01	1.00	1.01	1.00	.98	.99	.98	.97	.96
4	1.08	1.04	1.01	.99	1.07	1.03	1.01	.95	1.01	.99	.97	1.00	.98	.96	.98	.97	.95	.94
5	1.06	1.02	.99	.97	1.05	1.01	.98	.94	1.00	.97	.95	.98	.96	.95	.97	.95	.94	.93
6	1.05	1.00	.97	.95	1.04	.99	.96	.92	.98	.96	.94	.97	.95	.93	.96	.94	.93	.92
7	1.03	.98	.95	.93	1.02	.98	.95	.91	.97	.94	.92	.96	.94	.92	.95	.93	.92	.91
8	1.01	.97	.94	.92	1.01	.96	.93	.90	.95	.93	.91	.95	.92	.91	.94	.92	.91	.90
9	1.00	.95	.92	.90	.99	.95	.92	.89	.94	.92	.90	.94	.91	.90	.93	.91	.90	.89
10	.99	.94	.91	.89	.98	.94	.91	.89	.93	.91	.89	.93	.90	.89	.92	.90	.89	.88

Illuminance at a Distance						
	Center Beam fc	Beam Width				
2.0ft	10,636.2 fc	0.4 ft				
4.0R	2,659.1 fc	0.8 ft				
6.0ft	1,181.8 fc	1.2 ft				
8.0R	664.8 fc	1.5 ft				
10.0ft	425.4 fc	1.9 ft				
12.0ft	295.5 fc	2.3 ft				
12.0R	217.1 fc	2.7 ft				
14.00	166.2 fc	3.1 ft				





0-30

60-90

70-100

90-120

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.

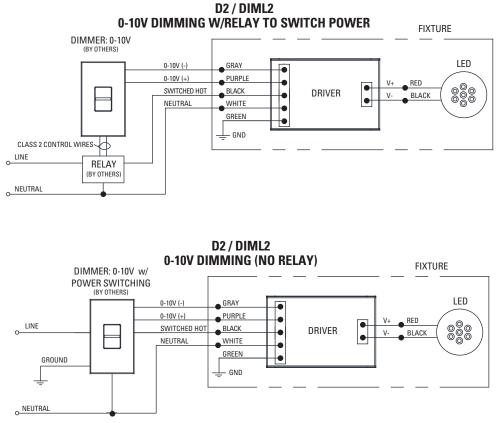
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

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

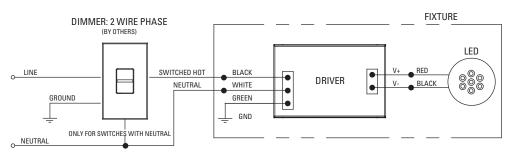
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are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

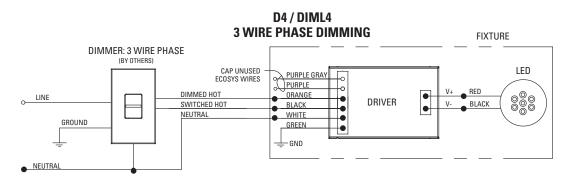
NOTES:

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).

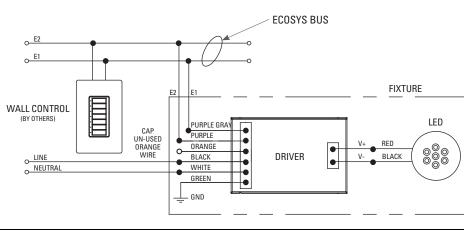
D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)



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 P	er 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			

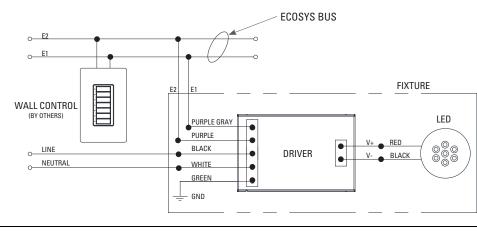
* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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

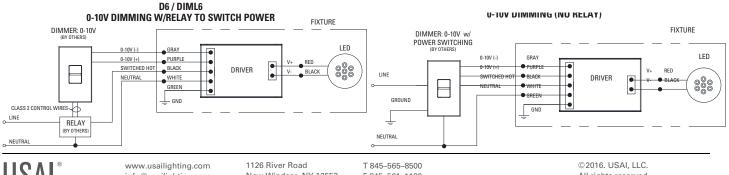
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-Lutron and others listed below) D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to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

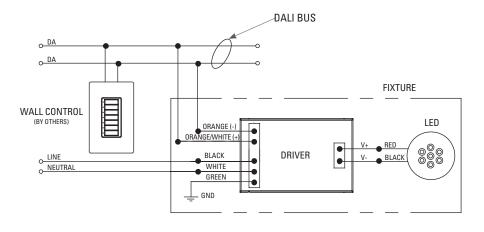
IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 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%

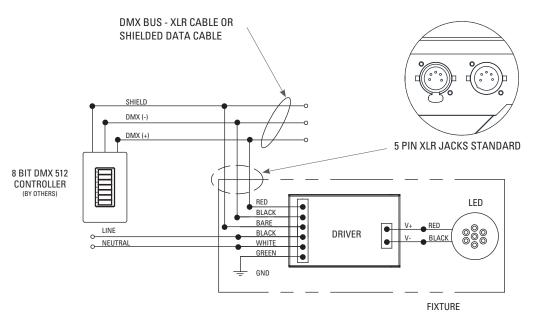
DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

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

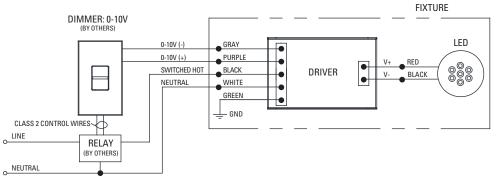
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are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

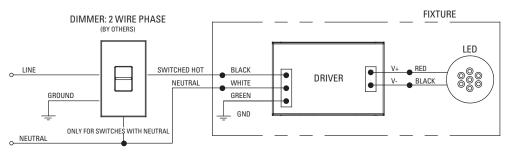
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

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



120V ONLY Forward Phase / TRIAC Dimming				
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				
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			

