PROJECT INFORMATION

PROJEC	т
DATE	
ТҮРЕ	





1" Regress

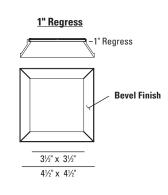
BeveLED 2.1 Recessed Downlight - BeveLED 2.1 is the most complete recessed LED downlight product family available from USAI Lighting, now with more BeveLED trim finishes, LED classic white color temperatures, innovative housing styles, and dimming driver options than before. With industry-leading performance, 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	/atts	16 W	atts	24 W	/atts	33 W	/atts	36 Watts		
1" REGRESS		90+		90+		90+		90+		90+		90+	
DOWNLIGHT	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	
Lumens per Watt	100	74	93	73	93	72	86	67	77	62	100	78	
Source Lumens	1150	900	1300	1025	1725	1350	2400	1875	3025	2350	4150	3250	
Delivered Lumens	850	675	1125	875	1475	1150	2050	1600	2600	2025	3450	2700	
Color Consistency	Color Consistency 2-Step MacAdam Ellipse												

Performance based on 3000K

CCT MULTIPLIER	2200K	270	OK	300	OK	3500K	4000K			
			90+		90+					
	80+	80+	HIGH	80+	HIGH	80+	80+			
Color Rendering Index	CRI	CRI	CRI	CRI	CRI	CRI	CRI			
Multiplier for										
Lumen Output	0.72	0.94	0.78	1.00	.78	1.00	1.06			
90+ CRI is not available for 2200K, 3500K, or 4000K										



HOW TO SPECIFY

Ordering Example: Specify trim code and housing code to order: Example : 3311W - B1- S - 10 - LSLD4 - 9012 - C3 - 27KS - 50 - NC - 277V - DIML2 - CB27

TRIM ORDERING INFORMATION

TRIM	OPTI	ON	BEVEL STYLE		LENS	B1 BEVEL FINISH
3311			-		-	-
3311	w	Wet location ¹	B1 1" Regress Bevel, P	ainted Die Cast	Solite (provided standard)	10 White
Square		Integral			F Frosted	13 Statuary Bronze
Trimless Downlight		Emergency Test Switch ²				21 Black
1" Regress		Test Switch 2				28 Metalized Grey
	1 Wet I	location, use with				RAL Custom Color (specify RAL #)
		is only.	AB1 1" Regress Bevel, B	lack Anodized Finish	Solite (provided standard)	(Leave blank for AB1 and AC1 Bevel Styles)
	- See t	able on page 2	AC1 1" Regress Bevel, C	lear Matte Anodized Finish	F Frosted	

HOUSING ORDERING INFORMATION

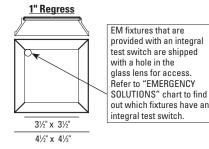
HOUSING ORDE HOUSING CODE	RING INFORM/ WATTAGE	ATION Engine code	COLOR	REFLECTOR	HOUSING TYPE	SELECT ONE VOLTAGE	DIMMING DRIVER OPTIONS	ACCESSORIES
LSLD4	-			-	-	-	-	-
LSLD4	9009 9W LED 9012 12W LED 9016 16W LED 9024 24W LED 9036 36W LED 9036 36W LED See performance chart for precise lumen information.	C3 E1	22KS 2200K, 80+ CRI ³ 27KS 2700K, 80+ CRI 30KS 3000K, 80+ CRI 35KS 3500K, 80+ CRI 40KS 4000K, 80+ CRI 27KH 2700K, 90+ CRI 30KH 3000K, 90+ CRI 2 Step MacAdam ellipse is standard for all	25 25° beam 50 50° beam 90 90° beam	FT Flat Housing New Construction FTIC Flat Housing IC-Rated/Airtight (up to 16W maximum) NCSM1 New Construction Narrow Width 5/8" to 1-1/4" ceiling max NCSM2 New Construction Narrow Width 1-1/4" to 2-1/4" ceiling max NC New Construction, all in one CP Chicago Plenum IC Insulation-Contact Rated / Airtight ⁴ See emergency solutions chart for EM options with these housings		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% ⁵ DIML4H Lutron H EC0, 1% Fade ⁵ DIML6A EldoLED 0-10V, 0.1%, logarithmic / Lutron 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 DIML6F EldoLED 0-10V, 1%, linear controls DIML6F EldoLED D-10V, 1%, linear controls DIML7 EldoLED DALI, 0.1% DIML8 EldoLED DALI, 0.1% DIML8 EldoLED DMX, 0.1% ^{6,7} For use with 120V only DIML3 Lutron A 2-wire, 1% 120V only ^{5,6,8}	CB27 27° C-Channel Bars CB52 52° C-Channel Bars EML Emergency battery ⁹ EMLW Emergency battery, wet location ⁹ MLXX Millwork housing ¹⁰
			³ Not available with E1 light engine		⁴ Not available with E1 light engine	347V ⁵ N/A with 9V ⁶ N/A with 33 ⁷ N/A with FT ⁸ N/A with E1	For use with 347V only DIML15 0-10V dim, 1%, 347 only V W or FTIC housing	 ⁹ See emergency solutions chart for more details on EM options. Not available with 347V ¹⁰ ML not for use with NCSM1 housings
IICVI ®		vw.usailighting		er Road	T 845–565–8500	1° N/A with E1	©2015	. USAI, LLC.



F 845-561-1130

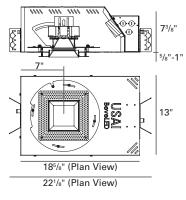


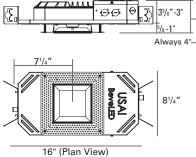
TRIM INFORMATION



HOUSING INFORMATION

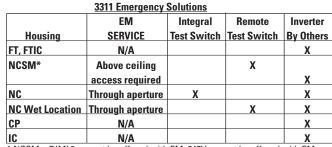
<u>New Construction</u> <u>Universal Style Housing - NC</u>



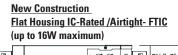


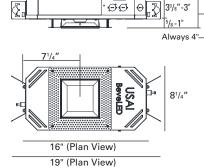
New Construction Flat Housing - FT

19" (Plan View)

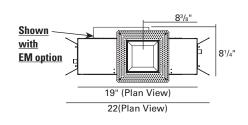


* NCSM + DIML8 cannot be offered with EM. 347V cannot be offered with EM.





19" (Plan View) 22(Plan View)



<u>Chicago Plenum (24W and less) - CP</u> IC / Airtight (24W and less) - IC

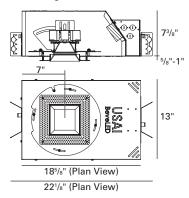
New Construction - Narrow Width - NCSM

NCSM1: 5/8" - 11/4"

NCSM2:11/4" - 21/4" -

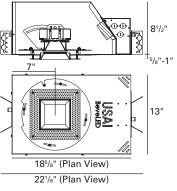
4³/₄"

000



<u>Chicago Plenum (33W and 36W) - CP</u> IC / Airtight (33W) - IC

(Not available with E1 light engine)





T 845–565–8500 F 845–561–1130

Revel FD^{2,1} Trimless



TRIM: 4-1/2" square aperture with a 1" regressed bevel, retained by four 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 DIML6A and 6E logarithmic control are intended for use or clear matte anodized bevel. Custom colors available (provide RAL#).

TRIM LENS: Trim is shipped with integral solite lens standard; frosted lens available as an option.

REFLECTOR: Interchangeable precision injection molded specular polycarbonate reflector optimized for 25°, 50° or 90° beam distribution.

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 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: 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 an integral test switch are provided with a hole in the glass lens as per the drawing above. 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. SPECIAL NOTE FOR NCSM HOUSING: DIML8 cannot be combined with EM options in NCSM housing 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.

MAXIMUM CEILING THICKNESS: As per drawings

above. Millwork option is for 2-1/4" max. thickness wood with NCSM2 housing and for 1" max thickness wood with all other housings. Millwork option is not available with NCSM1 housing.

CEILING CUT OUT: Millwork: 4-13/16" x 4-13/16" All others: 5-1/2" x 5-1/2"

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. FTIC housing is ICrated up to 16W maximum. 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. When using DIML8, NCSM housing can NOT be used with thru-branch circuit wiring.

m 🕆 downlight 3311

LISTINGS: Dry/Damp. Wet location option available with B1 trim only. Millwork Dry/Damp only. NRTL/ CSA-US tested to UL standards. IBEW union made. Energy Star Qualified under Luminaires Specification V2.0. See Energy Star website for exact model #s included in the listing. The following options are not Energy Star gualified: 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.

WARRANTY: 5 years NOTES:



- · Not for use in corrosive environment.
- Use of pressure washer voids warranty.
- · For interior use only.
- Not for use with acoustical ceilings.
- Trimless for drywall installation only.
- Millwork option for non-spackle installations.

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



1126 River Road

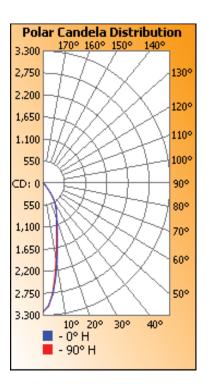
DELIVERED PERFORMANCE

3110 / 3311 16W 30KS 25°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											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	<u>0</u>	70	50	<u>30</u>	<u>0</u>	<u>50</u>	30	<u>20</u>	50	30	20	50	<u>30</u>	<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	1.13	1.10	1.08	1.06	1.11	1.08	1.06	.94	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2	1.08	1.03	.99	.95	1.05	1.01	.97	.87	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3	1.02	.96	.91	.87	1.00	.94	.90	.81	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4	.97	.89	.84	.80	.95	.88	.83	.76	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5	.92	.84	.78	.74	.91	.83	.77	.71	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6	.88	.79	.73	.69	.86	.78	.72	.67	.76	.72	.68	.75	.71	.67	.74	.70	.67	.65
7	.84	.74	.68	.64	.82	.74	.68	.63	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8	.80	.70	.64	.60	.78	.70	.64	.59	.69	.63	.60	.68	.63	.60	.67	.62	.59	.58
9	.76	.67	.61	.57	.75	.66	.60	.56	.65	.60	.56	.64	.60	.56	.63	.59	.56	.55
10	.73	.63	.58	.54	.72	.63	.57	.53	.62	.57	.53	.61	.57	.53	.60	.56	.53	.52

Zonal	Zonal Lumen Summary											
Zone	Lumens	% Luminaire										
0-30	1,001.9	67.6%										
0-40	1,309.7	88.3%										
0-60	1,450.7	97.9%										
60-90	31.7	2.1%										
70-100	12.1	0.8%										
90-120	0	0%										

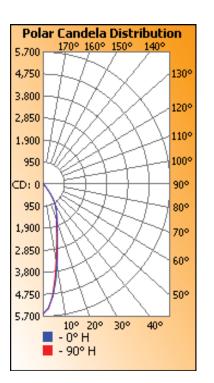
	Illuminance at a Distance											
	Center Beam fc	Beam Width										
2.0R	804.4 fc	0.9 ft	0.9 ft									
4.0R	201.1 fc	1.9 ft	1.7 ft									
4.0R	89.4 fc	2.8 ft	2.6 ft									
8.0R	50.3 fc	3.8 ft	3.5 ft									
10.0R	32.2 fc	4.7 ft	4.3 ft									
12.0R	22.3 fc	5.6 ft	5.2 ft									
12.0ft	16.4 fc	6.6 ft	6.1 ft									
16.0ft	12.6 fc	7.5 ft	6.9 ft									
	Vert. Spread: 26.4° Horiz. Spread: 24.5°											



3110 / 3311 33W 30KS 25°

Coeffici	ents	Of U	tiliza	ation	- Zor	nal C	avit	y Me	thod									
											Effe	ctive	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	1.13	1.10	1.08	1.06	1.11	1.08	1.06	.94	1.04	1.02	1.01	1.01	.99	.98	.97	.96	.95	.93
2	1.08	1.03	.99	.95	1.05	1.01	.97	.87	.98	.95	.92	.95	.92	.90	.92	.90	.88	.86
3	1.02	.96	.91	.87	1.00	.94	.90	.81	.92	.88	.84	.89	.86	.83	.87	.84	.82	.80
4	.97	.89	.84	.80	.95	.88	.83	.76	.86	.82	.78	.84	.80	.77	.82	.79	.76	.75
5	.92	.84	.78	.74	.91	.83	.77	.71	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6	.88	.79	.73	.69	.86	.78	.72	.67	.76	.72	.68	.75	.71	.67	.74	.70	.67	.65
7	.84	.74	.68	.64	.82	.74	.68	.63	.72	.67	.64	.71	.67	.63	.70	.66	.63	.62
8	.80	.70	.64	.60	.78	.70	.64	.59	.69	.63	.60	.68	.63	.60	.67	.62	.59	.58
9	.76	.67	.61	.57	.75	.66	.60	.56	.65	.60	.56	.64	.60	.56	.63	.59	.56	.55
10	.73	.63	.58	.54	.72	.63	.57	.53	.62	.57	.53	.61	.57	.53	.60	.56	.53	.52

Zonal	Lumen 9	Summary	Illuminance al	a Distance	
Zone	Lumens	% Luminaire	Center Beam fc	Beam Width	
			2.0ft 1,401.4 fc	0.9 ft	0.9
0-30	1,745.5	67.6%	4.0ft 350.4 fc	1.9 ft	1.7
0-40	2,281.6	88.3%	6.0R 155.7 fc	2.8 ft	2.6
			87.6 fc	3.8 ft	3.5
0-60	2,527.3	97.9%	10.0ft 56.1 fc	4.7 ft	4.3
60-90	55.3	2.1%	12.0ft 38.9 fc	5.6 ft	5.2
70-100	21.0	0.8%	12.011 28.6 fc	6.6 ft	6.1
10-100	21.0	0.0%	16.0ft 21.9 fc	7.5 ft	6.9
90-120	0	0%	Vert. Spread: 26.4° Horiz. Spread: 24.5°		





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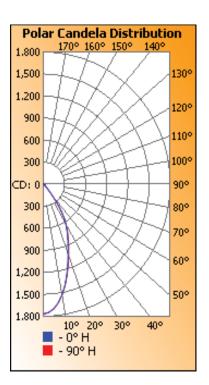
DELIVERED PERFORMANCE

3110 / 3311 16W 30KS 50°

Coeffici	Coefficients Of Utilization - Zonal Cavity Method																	
											Effe	ctive	Floor	Cavi	ty Re	flecta	nce:	20%
RCC %:		8	0			7	0			<i>50</i>			<i>30</i>			<i>10</i>		0
RW %:	<u>70</u>	50	30	<u>0</u>	70	50	30	<u>0</u>	50	30	<u>20</u>	50	30	20	50	<u>30</u>	<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	1.13	1.10	1.07	1.05	1.11	1.08	1.06	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2	1.07	1.02	.98	.94	1.05	1.00	.96	.86	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3	1.01	.94	.89	.85	.99	.93	.88	.80	.90	.86	.83	.88	.84	.82	.86	.83	.80	.79
4	.96	.88	.82	.78	.94	.87	.81	.74	.84	.80	.76	.82	.78	.75	.81	.77	.74	.73
5	.91	.82	.76	.71	.89	.81	.75	.69	.79	.74	.70	.77	.73	.70	.76	.72	.69	.67
6	.86	.77	.70	.66	.84	.76	.70	.64	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7	.82	.72	.66	.61	.80	.71	.65	.60	.70	.65	.61	.69	.64	.60	.67	.63	.60	.58
8	.77	.68	.61	.57	.76	.67	.61	.56	.66	.60	.57	.65	.60	.56	.64	.59	.56	.55
9	.74	.64	.57	.53	.72	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51
10	.70	.60	.54	.50	.69	.60	.54	.49	.59	.54	.50	.58	.53	.50	.57	.53	.50	.48

Zonal Lumen Summary											
Zone	Lumens	% Luminaire									
0-30	927.0	64.5%									
0-40	1,252.7	87.2%									
0-60	1,402.0	97.6%									
60-90	34.9	2.4%									
70-100	13.1	0.9%									
90-120	0	0%									

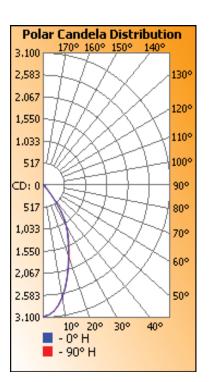
	Illuminance at a	a D	istance								
	Center Beam fc		Beam Wid	th							
2.0ft	443.6 fc		1.7 ft	1.8 ft							
4.0ft	110.9 fc		3.5 ft	3.5 ft							
4.0R	49.3 fc		5.2 ft	5.3 ft							
8.0ft	27.7 fc		6.9 ft	7.1 ft							
10.0ft	17.7 fc		8.6 ft	8.9 ft							
10.0R	12.3 fc		10.4 ft	10.6 ft							
12.0ft	9.1 fc		12.1 ft	12.4 ft							
14.0ft	6.9 fc		13.8 ft	14.2 ft							
	Vert. Spread: 46.7°										
	Horiz, Spread: 47.8°										



3110 / 3311 33W 30KS 50°

Coeffici	ents	Of U	tiliza	ation	- Zo	nal C	avit	у Ме	thod									
											Effe	ctive	Floor	Cavi	ty Re	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	1.13	1.10	1.07	1.05	1.11	1.08	1.06	.93	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.94	.93
2	1.07	1.02	.98	.94	1.05	1.00	.96	.86	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3	1.01	.94	.89	.85	.99	.93	.88	.80	.90	.86	.83	.88	.84	.82	.86	.83	.80	.79
4	.96	.88	.82	.78	.94	.87	.81	.74	.84	.80	.76	.82	.78	.75	.81	.77	.74	.73
5	.91	.82	.76	.71	.89	.81	.75	.69	.79	.74	.70	.77	.73	.70	.76	.72	.69	.67
6	.86	.77	.70	.66	.84	.76	.70	.64	.74	.69	.65	.73	.68	.65	.71	.67	.64	.63
7	.82	.72	.66	.61	.80	.71	.65	.60	.70	.65	.61	.69	.64	.60	.67	.63	.60	. 58
8	.77	.68	.61	.57	.76	.67	.61	.56	.66	.60	.57	.65	.60	.56	.64	.59	.56	.55
9	.74	.64	.57	.53	.72	.63	.57	.53	.62	.57	.53	.61	.56	.53	.60	.56	.53	.51
10	.70	.60	.54	.50	.69	.60	.54	.49	.59	.54	.50	.58	.53	.50	.57	.53	.50	.48

Zonal	Lumen S	Summary	Illuminan	ce at a D	Distance	
Zone	Lumens	% Luminaire	Center Beam f	с	Beam Wid	lth
0-30	1 615 0	64.5%	2.0ft 772.8 ft	c 🗼	1.7 ft	1.8 ft
0-50	1,615.0	04.3%	4.0ft 193.2 ft	c 💧	3.5 ft	3.5 ft
0-40	2,182.4	87.2%	4.0ft 85.9 ft	c 💧	5.2 ft	5.3 ft
0.00	2 442 6	07 604	8.0ft 48.3 ft	c 📃	6.9 ft	7.1 ft
0-60	2,442.6	97.6%	10.0ft 30.9 ft	c 🖉	8.6 ft	8.9 ft
60-90	60.8	2.4%	12.0ft 21.5 ft	c 🛛	10.4 ft	10.6 ft
70 100	22.8	0.000	12.00 15.8 f	c 🛛	12.1 ft	12.4 ft
70-100	22.0	0.9%	14.0ft 12.1 f	c 🛛	13.8 ft	14.2 ft
90-120	0	0%	Vert. Spread: 46			





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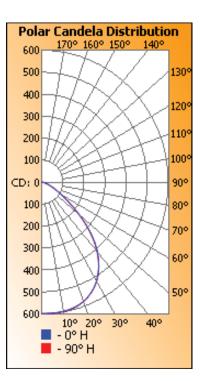
DELIVERED PERFORMANCE

3110 / 3311 16W 30KS 90°

Coeffici	ents	Of U	tiliza	ation	- Zoi	nal C	avit	y Me	thod									
											Effe	ctive	Floor	Cavi	ty Ref	flecta	nce:	20%
RCC %:		8	0			7	0			50			30			10		0
RW %:	<u>70</u>	<u>50</u>	<u>30</u>	<u>0</u>	70	<u>50</u>	30	<u>0</u>	50	<u>30</u>	<u>20</u>	50	30	<u>20</u>	50	<u>30</u>	<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	1.11	1.07	1.04	1.01	1.09	1.05	1.02	.89	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2	1.03	.96	.91	.86	1.01	.95	.89	.79	.91	.87	.83	.88	.84	.81	.85	.82	.80	.78
3	.95	.87	.80	.74	.93	.85	.79	.69	.82	.77	.72	.80	.75	.71	.77	.73	.70	.68
4	.88	.78	.71	.65	.86	.77	.70	.62	.74	.68	.64	.72	.67	.63	.70	.66	.62	.60
5	.82	.71	.63	.57	.80	.70	.62	.55	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6	.76	.64	.56	.51	.74	.63	.56	.49	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7	.71	.59	.51	.45	.69	.58	.51	.44	.57	.50	.45	.55	.49	.45	.54	.48	.44	.43
8	.66	.54	.46	.41	.65	.53	.46	.40	.52	.45	.41	.51	.45	.40	.50	.44	.40	.38
9	.62	.50	.42	.37	.61	.49	.42	.36	.48	.41	.37	.47	.41	.37	.46	.41	.36	.35
10	.58	.46	.39	.34	.57	.46	.39	.33	.45	.38	.34	.44	.38	.33	.43	.37	.33	.32

Zonal	Lumen S	Summary
Zone	Lumens	% Luminaire
0-30	480.2	37.3%
0-40	779.3	60.5%
0-60	1,198.0	92.9%
60-90	91.0	7.1%
70-100	28.0	2.2%
90-120	0	0%

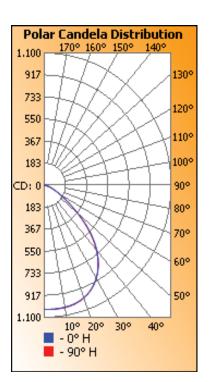
	Illuminance at a	Distance	
	Center Beam fc	Beam Wid	:h
2.0R	148.9 fc	4.3 ft	4.2 ft
4.0ft	37.2 fc	8.5 ft	8.4 ft
4.0R	16.5 fc	12.8 ft	12.6 ft
8.0R	9.3 fc	17.0 ft	16.8 ft
10.0R	6.0 fc	21.3 ft	21.0 ft
12.0R	4.1 fc	25.6 ft	25.2 ft
12.0R	3.0 fc	29.8 ft	29.4 ft
16.0ft	2.3 fc	34.1 ft	33.6 ft
	Vert. Spread: 93.6°		
	Horiz, Spread: 92.8°		



3110 / 3311 33W 30KS 90°

Coeffici	ents	Of U	tiliza	tion	- Zoi	nal C	avit	y Me	thod	3	Effe	ctive	Eloor	Cavi	ty Det	Aerta	nce.	20.94
RCC %:		8	0			7	0			50	Line	cuve	30	Cavi	Ly ICC	10	nee.	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	1.11	1.07	1.04	1.01	1.09	1.05	1.02	.89	1.01	.99	.96	.97	.95	.93	.94	.92	.91	.89
2	1.03	.96	.91	.86	1.01	.95	.89	.79	.91	.87	.83	.88	.84	.81	.85	.82	.80	.78
3	.95	.87	.80	.74	.93	.85	.79	.69	.82	.77	.72	.80	.75	.71	.77	.73	.70	.68
4	.88	.78	.71	.65	.86	.77	.70	.62	.74	.68	.64	.72	.67	.63	.70	.66	.62	.60
5	.82	.71	.63	.57	.80	.70	.62	.55	.68	.61	.56	.66	.60	.56	.64	.59	.55	.53
6	.76	.64	.56	.51	.74	.63	.56	.49	.62	.55	.50	.60	.54	.50	.59	.53	.49	.47
7	.71	.59	.51	.45	.69	.58	.51	.44	.57	.50	.45	.55	.49	.45	.54	.48	.44	.43
8	.66	.54	.46	.41	.65	.53	.46	.40	.52	.45	.41	.51	.45	.40	.50	.44	.40	.38
9	.62	.50	.42	.37	.61	.49	.42	.36	.48	.41	.37	.47	.41	.37	.46	.41	.36	.35
10	.58	.46	.39	.34	.57	.46	.39	.33	.45	.38	.34	.44	.38	.33	.43	.37	.33	.32

Zonal	Lumen S	Summary		Illuminance at a	a Distance	
Zone	Lumens	% Luminaire		Center Beam fc	Beam Wic	lth
100			2.0ft	259.4 fc	4.3 ft	4.2 f
0-30	836.5	37.3%	4.0ft	64.9 fc	8.5 ft	8.4 f
0-40	1.357.7	60.5%	6.0R	28.8 fc	12.8 ft	12.6 f
			8.0ft	16.2 fc	17.0 ft	16.8 f
0-60	2,087.1	92.9%	10.0ft	10.4 fc	21.3 ft	21.0 f
60-90	158.6	7.1%	12.0ft	7.2 fc	25.6 ft	25.2 f
	40.0	0.004	14.0ft	5.3 fc	29.8 ft	29.4 f
70-100	48.8	2.2%	16.0ft	4.1 fc	34.1 ft	33.6 f
90-120	0	0%		rt. Spread: 93.6°		
			He He	oriz. Spread: 92.8°		







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.

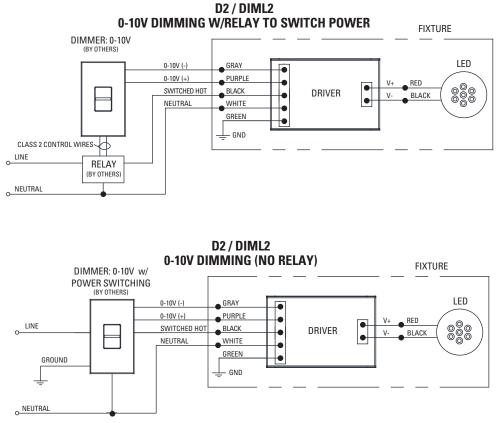
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are in accordance with the National Electrical Code and any local regulations.

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

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

	D2 / DIML2 Dim	mer Compatibility C	hart	
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

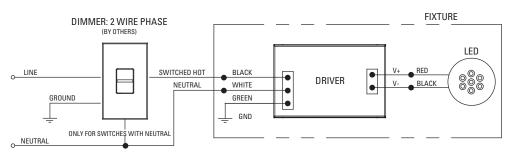
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are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

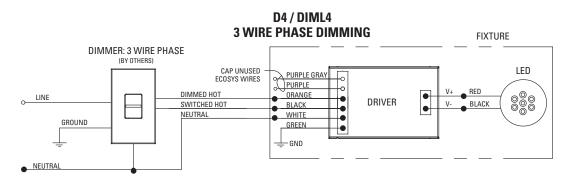
NOTES:

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).

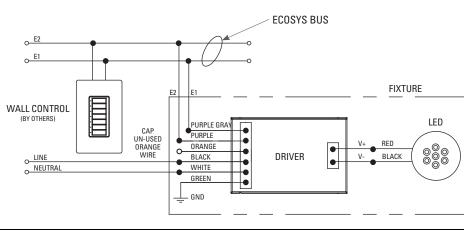
D4 / DIML4 LED: Lutron Hi-Lume A-Series LED Driver with 3-Wire FL Control / LED Dimming Driver Wiring (Dims down to 1%)



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

	D4/DIM	L4 EcoSystem Dimmer Compatibilit	y Chart								
		· · ·	Dimmed Light	Qty Fixtures P	er Control*						
Manufacturer	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 Pe	r Control*
Manufacturer	Product	Part Number	Output Range	Fixture W	/attage
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

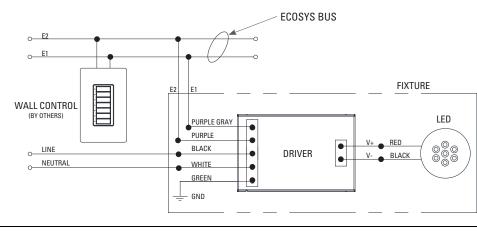
* NOTE: Number of fixtures may be higher if wattage is less than maximum values shown. Refer to dimmer manufacturer's documentation for installation instructions and circuit details.

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 Pe	r Control*
Manufacturer	Product	Part Number	Output Range	Fixture	Wattage
120V / 277V 39W and Less 4			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	nIO 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

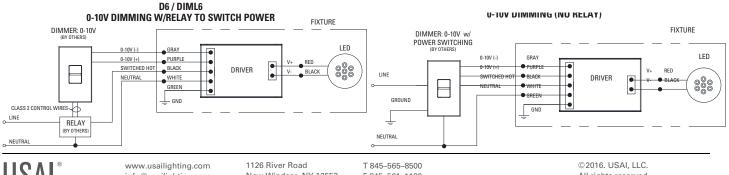
D6B / DIML6B and D6F / DIML6F are logarithmic-programmed dimming drivers for use with linear-style dimming controls (e.g., Crestron, non-Lutron and others listed below) D6B / DIML6B = EldoLED SOLOdrive 0-10V control dims from 100% to 0.1% D6F / DIML6F = EldoLED ECOdrive 0-10V control dims from 100% to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

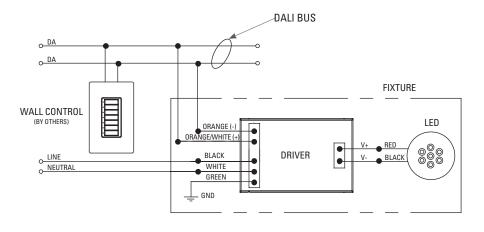
IMPORTANT SAFETY INSTRUCTIONS - SAVE THESE INSTRUCTIONS

- 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%

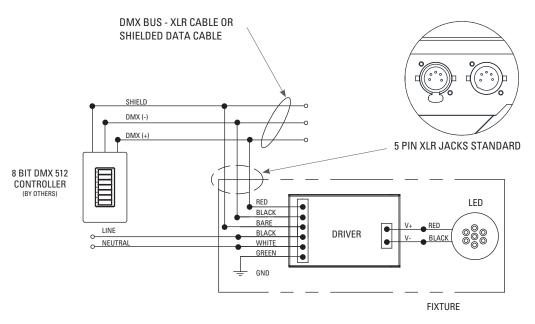
DMX BUS - XLR CABLE OR SHIELDED DATA CABLE

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

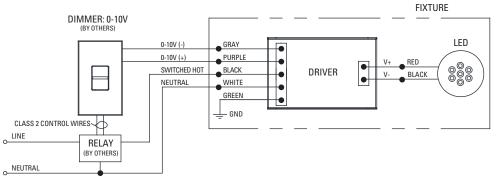
- 1. Keep these instructions in a safe place for future reference.
- 2. Only qualified electricians in accordance to local codes should install these fixtures.
- 3. De-energize the electrical circuit at the circuit breaker prior to installation process or servicing.
- 4. Make sure all connections are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

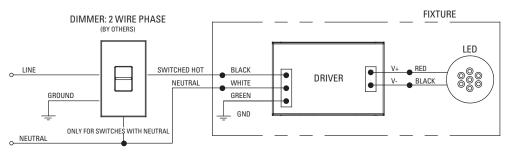
Wiring diagrams are examples of typical installations intended to illustrate the number of wires that must be run to fixture. These diagrams are not intended to specify all equipment necessary for a given dimming circuit. Refer to specific dimmer manufacturer's documentation for details.

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



D15/ DIMETS DIMMER Company Chart				
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	

