Solace

3" Shallow Round Downlights

amerlux

PROJECT:	TYPE:

## Features

Solace 3" Downlights are the complete downlight family for any ceiling surface and low plenum ceiling. Round or Square apertures, available as downlight, adjustable or wallwash. Optional Solite lensing provides whisper quiet aesthetics. The trim options available as trimmed, trimless or millwork. The pinhole and shower pinhole trim makes this a complete a downlight to design the entire space with the same look.

SOL-RD
(shown with Solite lens)

SOL-RD-TL
(trimless)

Product Overview

Type:	Shallow Round Downlight
Wattage:	8W, 12W, 17W
Color Temp:	2700K, 3000K, 3500K, 4000K
CRI:	83 typ. or 90+ typ.
	CrispWhite & 3K Class A available
Dimming:	TRIAC & ELV, 5% Dim, 120/277VAC
	0-10V, 1% Dim, 120/277VAC
	Lutron Hi-lume® EcoSystem Premier, 0.1% dim with soft on & fade to
	black, 120/277VAC *(Consult factory for Lutron lead time)*

SOL-RPD

SOL-RPD-TL
(trimless)

SOL-RPDSHW
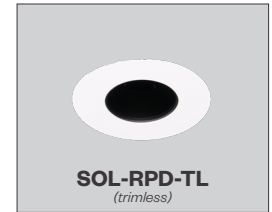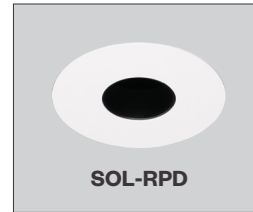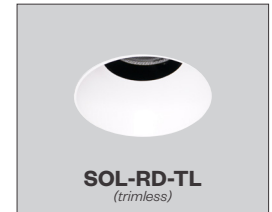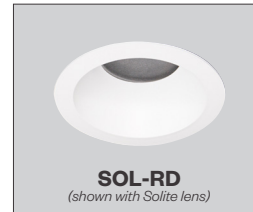
Certifications

CSA c US · 5 year limited warranty AMERLUX LED · JA8 TITLE 24 COMPLIANT

Fixture Summary

Fixture Type

Round/Square	New Construction	Trim	Trimless	Millwork
Yes	Yes	Yes	Yes	Yes

See seperate spec sheet for Square trims.

Performance Data *(see page 5 for full breakdown)*

Watts	Delivered Lumens	LPW	CBCP	Color Temp-CRI
8	860	102	3939	3000K-83
12	1266	101	5797	3000K-83
17	1623	96	7432	3000K-83

Data is based on 3000K-83 120V IES files available on website.
Data is based on Flood optic (no Solite). See pg 6-7 for other beam spreads.

Electrical Data

Voltage	8W		12W		17W	
	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	8	0.067	12	0.10	17	0.142
277V	8	0.029	12	0.043	17	0.061

Electronic constant current LED driver.

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Solace
3" Shallow Round Downlights

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PROJECT:	TYPE:

Ordering Information - Housing/Frame

_____ . _____ . _____ . **120/277** . _____ . _____ . _____ . _____

[1]   **[2]**   **[3]**   **[4]**   **[5]**   **[6]**   **[7]**   **[8]**

1	Model
	SOL-RD-NC *(New Construction & Insulated Ceiling (IC rated))*
	SOL-RD-CP *(Chicago Plenum (CCEA) housing)*
	SOL-RD-IC[T24] *(Insulated Ceiling (IC)/air tight)*

2	Style
	T trimmed *(2" max ceiling thickness)*
	TL trimless *(5/8" max ceiling thickness)*
	MWK millwork *(for 1/2" - 11/16" ceiling thickness)*
	MWK1 millwork *(for 3/4" - 1-1/2" ceiling thickness)*
	MWK2 millwork *(for 1-1/2" - 2" ceiling thickness)*

3	Wattage
	8 *(860 lm)*
	12 *(1266 lm)*
	17 *(1623 lm)*
	(Lumen data based on 3000K-83, FL optic. See pg 5 for other performance data)

4	Voltage
	120/277 *(universal voltage)*

5	Beam Spread
	SP spot, 15°
	FL flood, 25°
	WF wide flood, 36°
	VWF very wide flood, 55°

6	Color Temp		
	83 CRI	90+ CRI[T24]	
	27 2700K-83	**279** 2700K-90+	**CRISP*** CrispWhite
	30 3000K-83	**309** 3000K-90+	**3CLA*** 3000K Class A
	35 3500K-83	**359** 3500K-90+	
	40* 4000K-83	**409*** 4000K-90+	
	* Consult factory for lead time.		

7	Driver *(for non-dimming, select LE/TE option)*
	LE/TE[T24] TRIAC/ELV dimming
	0-10V[T24] 0-10V dimming, 1% dim
	HILUME-P-ECO - Lutron Hi-lume® EcoSystem Premier 0.1% dim with soft on & fade to black *(Consult factory for Lutron lead time)*

8	Options/Accessories
	HB49 - hanger bars from min 29" to max 49" *(26" hanger bars included as default options)*
	Note: 26" hanger bars are included as standard. Choose **HB49** *option above for larger mounting spaces only.*

Ordering Information - Trim

_____ . _____ . _____ . _____

[1]   **[2]**   **[3]**   **[4]**

1	Model
	SOL-RD[T24] *(downlight)*
	SOL-RPD *(pinhole downlight)*
	SOL-RPDSHW *(pinhole downlight shower)*

2	Style
	T trimmed
	TL trimless *(not available for use with shower trim)*
	MWK millwork *(not available for use with shower trim)*

3	Finish	
	RD Trim	
	Trimmed	**Trimless/Millwork**
	MBW matte black, white flange	**MB** matte black
	MWW matte white, white flange	**MW** matte white
	SLVW matte silver, white flange	**SLV** matte silver
	MBB matte black, black flange	
	SLVS matte silver, silver flange	
	RPD/RPDSHW Trims *(T/TL/MWK)*	
	MB matte black	
	MW matte white	
	SLV matte silver	

4	Options/Accessories
	SOL solite beam softening lens *(comes standard with RPDSHW trim, not JA8/Title 24 compliant)*

[T24] JA8/Title 24 Compliant

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PROJECT:	TYPE:

Specifications

Application
Retail and commercial ambient and task lighting

Housing Construction
20 ga. steel painted matte black
Extruded aluminum heatsink
Formed aperture plate with 5/8" lip *(GB-standard)*
Cast aluminum plaster frame with perforated face *(for trimless option)*
Integral adjustable locking mounting bars
Inherently protected

Reflector Trim Construction
Die-cast reflector
Pinhole trim features die cast faceplate and baffle
Pinhole shower trim features solite glass lens and silicone flange gasket

Optical
Beam Spreads: Spot, 15°; Flood, 25°; Wide Flood, 36°;
Very Wide Flood, 55°
Optional **SOL** - solite beam softening lens *(up to ~5° widening of beam)*

LED
Color Temp Options: 2700K, 3000K, 3500K, 4000K
CRI: 83 typ. or 90+ typ.
    CrispWhite* & Class A** 3000K *(high gamut)* available
R9 Values: 11 *(83 CRI)*, 55 *(92 CRI)*
Binning: 3 MacAdam *(SDCM)*
Life: 50,000+ hrs, > 70% of initial lumens at 50,000 hrs

  * CrispWhite: CrispWhite Technology delivers the warmth of colors expected from a high 90 CRI solution but also creates the natural crisp white color that is pleasing to the eye. It creates the most impactful lighting ever available, by revealing the richest whites and vibrant colors that pop.
  ** Class A LED: Class A LED's have a CRI > 80 and a GAI > 80. CRI defines color "Naturalness" and GAI defines color "Saturation." Both being high delivers rich colors and pure whites.

Electrical
Wattage: 8W, 12W, 17W
Electronic constant current LED driver, 120/277VAC input
This product complies with IEEE C62.41 for surge endurance up to 2.5KV. Amerlux® recommends using additional surge protection with this unit *(supplied by others)***, surge and over voltage damage is not covered under warranty.**
Emergency option available through circuiting/inverter only

Drivers
LE/TE - Leading Edge *(Triac, Forward Phase)* or Trailing Edge *(ELV, Reverse Phase)*
0-10V and Lutron systems also available
See pages 8-9 for more dimming information

Finish *(Trim)*
Powder coat paint

Mounting
26" Hanger bars included. Side brackets allow for rigid conduit pipe mounting along with additional 1/2" adjustment of housing vertical position
Optional **HB49** - hanger bars from min 29" to max 49" available
Trimmed Fixture:
For use in grid or sheetrock ceilings, 5/8" - 2" standard
Trimless Fixture *(not available with Shower trim)*:
For use in sheetrock ceilings, max ceiling thickness 5/8"
For sheetrock ceilings beyond 5/8" consult factory
Millwork Fixture:
Millwork extension collars are based on ceiling material specifications and thickness. Provides flush trim appearance level with ceiling material. Max thickness 2"

Certifications
CSA damp as tested to UL 1598 standards
Wet location *(SHW trim)* - for indoor, high humidity/moisture from below applications only
IC/AT rated
JA8 Title 24 compliant *(see ordering page for options that apply)*

Warranty
5 year limited warranty

Weight
Housing and trim - 5 lbs.

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Product Details

Solace Round Downlights

14 1/2" min - 26" max
8"
13"
16 1/2"
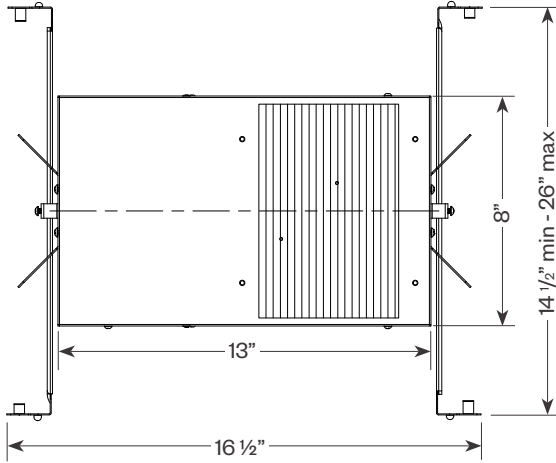
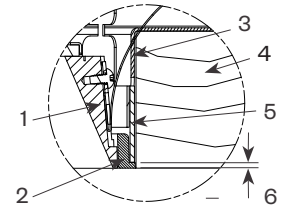### Plaster Frame Installation Detail *(for trimless fixture only)*

1. Reflector Trim
2. Aperture Plate
3. Ceiling ⅝"
4. Cast Aluminum Plaster Frame
5. Plaster Skim Coat *(by others)*
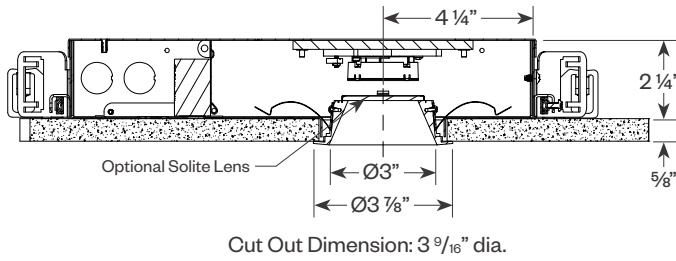6. 6-32 Type F Thread Cutting Screw
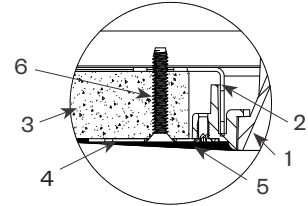
Millwork Detail

1. Reflector Trim
2. Millwork Ring
3. Aperture Plate
4. Wood Ceiling 2" Max
5. Extension collar *(see ordering information for ceiling thicknesses)*
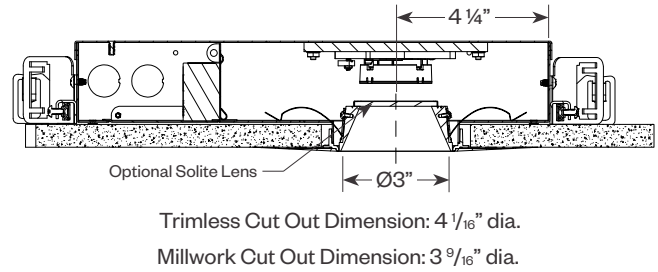6. 1/16" required for trim to be flush with ceiling
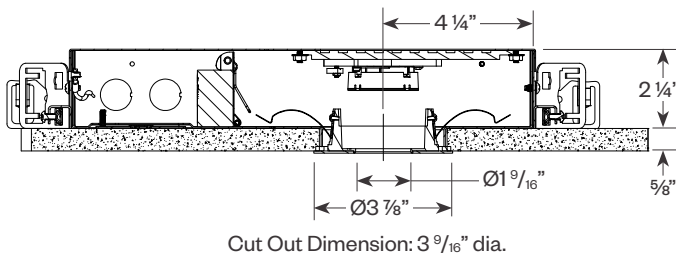

Round Downlight

Trimmed

4 ¼"
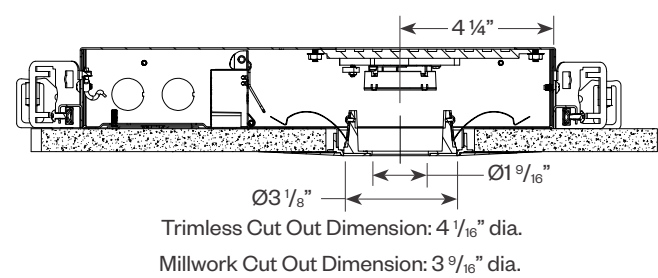2 ¼"
⅝"
Optional Solite Lens
Ø3"
Ø3 ⅞"

Cut Out Dimension: 3 $^9/_{16}$" dia.

Trimless & Millwork

4 ¼"
Optional Solite Lens
Ø3"

Trimless Cut Out Dimension: 4 $^1/_{16}$" dia.

Millwork Cut Out Dimension: 3 $^9/_{16}$" dia.

Round Pinhole Downlight

Trimmed

4 ¼"
2 ¼"
⅝"
Ø1 $^9/_{16}$"
Ø3 ⅞"

Cut Out Dimension: 3 $^9/_{16}$" dia.

Trimless & Millwork

4 ¼"
Ø1 $^9/_{16}$"
Ø3 ⅛"

Trimless Cut Out Dimension: 4 $^1/_{16}$" dia.

Millwork Cut Out Dimension: 3 $^9/_{16}$" dia.

Round Pinhole Downlight Shower

Trimmed

4 ¼"
2 ¼"
⅝"
Ø1 $^9/_{16}$"
Ø3 ⅞"

Cut Out Dimension: 3 $^9/_{16}$" dia.

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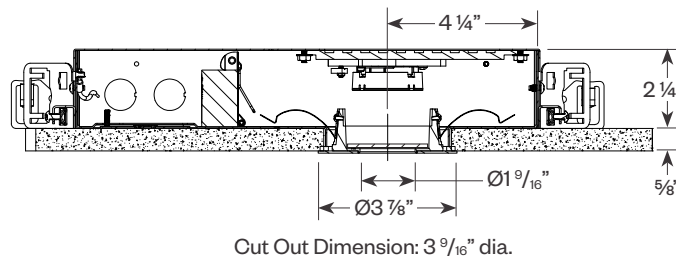
Solace

3" Shallow Round Downlights

PROJECT:	TYPE:

Solace Round Downlights Performance Breakdown *(without Solite lens)*

Wattage	Color Temp.	SP (15°)		FL (25°)		WF (36°)		VWF (55°)		Pinhole Spot (15°)	
		Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW	Lumens	LPW
8W	27	799	95	843	100	769	92	810	96	321	38
	30	815	97	860	102	784	93	826	98	327	39
	35	831	99	877	104	800	95	843	100	334	40
	40	856	102	903	108	824	98	868	103	343	41
	279	685	82	723	86	659	78	694	83	275	33
	309	709	84	748	89	682	81	719	86	285	34
	359	734	87	774	92	706	84	744	89	294	35
	409	734	87	774	92	706	84	744	89	294	35
	CRISP	530	63	559	67	510	61	537	64	213	25
	3CLA	571	68	602	72	549	65	578	69	229	27
12W	27	1176	94	1241	99	1131	91	1192	95	472	38
	30	1200	96	1266	101	1154	92	1216	97	481	39
	35	1224	98	1291	103	1177	94	1240	99	491	39
	40	1260	101	1329	106	1212	97	1277	102	505	40
	279	1008	81	1063	85	970	78	1021	82	404	32
	309	1044	83	1101	88	1004	80	1058	85	419	34
	359	1080	86	1139	91	1039	83	1094	88	433	35
	409	1080	86	1139	91	1039	83	1094	88	433	35
	CRISP	780	62	823	66	750	60	790	63	313	25
	3CLA	840	67	886	71	808	65	851	68	337	27
17W	27	1507	89	1591	94	1450	86	1528	91	605	91
	30	1538	91	1623	96	1480	88	1559	93	617	93
	35	1569	93	1655	98	1510	90	1590	94	629	94
	40	1615	96	1704	101	1554	92	1637	97	648	97
	279	1292	76	1363	81	1243	74	1310	78	518	78
	309	1338	79	1412	84	1288	76	1356	80	537	80
	359	1384	82	1461	87	1332	79	1403	83	555	83
	409	1384	82	1461	87	1332	79	1403	83	555	83
	CRISP	1000	59	1055	63	962	57	1013	60	401	60
	3CLA	1077	64	1136	67	1036	61	1091	65	432	65

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PROJECT:	TYPE:

Performance Data - Round Downlight *(SOL-RD)*

Multiplying Factors: *(Multiplying Factor is based on 3000K-83 120V IES file on website)*
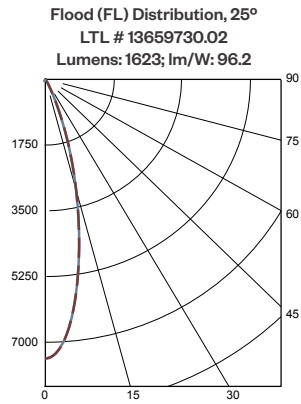
Wattage:	8W	12W	17W
Factor:	0.53	0.78	1.0

Lens:	Solite
Factor:	0.95

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.98	1.0	1.02	1.04	0.84	0.87	0.90	0.91	0.65	0.70

17W LED, 3000K-83

Spot (SP) Distribution, 15°
LTL # 13659730.01
Lumens: 1538; lm/W: 91
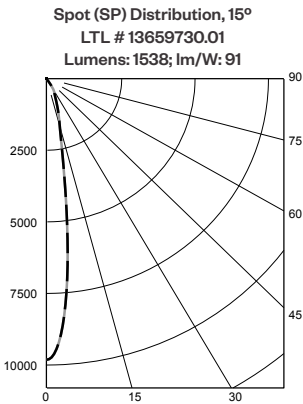
Candelas at Nadir

Deg	Candela
0	9820
5	7470
15	1651
25	654
35	140
45	28

Flood (FL) Distribution, 25°
LTL # 13659730.02
Lumens: 1623; lm/W: 96.2

Candelas at Nadir

Deg	Candela
0	7432
5	6650
15	2858
25	409
35	50
45	11

Wide Flood (WF) Distribution, 36°
LTL # 13659730.03
Lumens: 1480; lm/W: 87.8
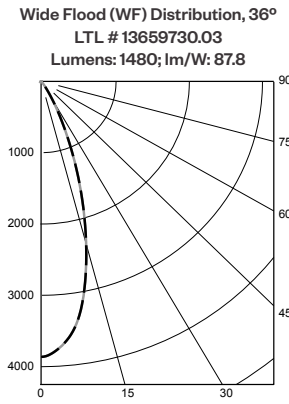
Candelas at Nadir

Deg	Candela
0	3864
5	3679
15	2358
25	815
35	124
45	19

Very Wide Flood (VWF) Distribution, 55°
LTL # 13659730.04
Lumens: 1559; lm/W: 92.5
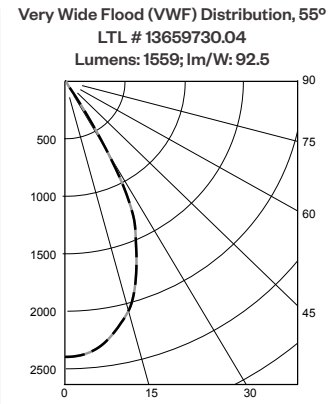
Candelas at Nadir

Deg	Candela
0	2397
5	2366
15	2055
25	1370
35	93
45	27

Application Data - Round Downlight *(SOL-RD)*
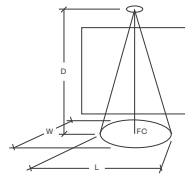
Notes and Definitions:
Beam spread is to 50% center beam candlepower (CBCP).
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level).
W=Effective Visual Beam width in feet (50% of maximum footcandle level).

Spot

	0° Aiming Angle Horizontal Footcandles		
D	FC	L	W
5.0'	393	1.3	1.3
7.5'	175	2.0	2.0
10.0'	99	2.9	2.9
12.5'	63	3.4	3.4

Flood

	0° Aiming Angle Horizontal Footcandles		
D	FC	L	W
5.0'	298	2.2	2.2
7.5'	133	3.2	3.2
10.0'	75	4.3	4.3
12.5'	48	5.4	5.4

Wide Flood

	0° Aiming Angle Horizontal Footcandles		
D	FC	L	W
5.0'	155	2.9	2.9
7.5'	69	4.3	4.3
10.0'	39	5.8	5.8
12.5'	25	7.2	7.2

Very Wide Flood

	0° Aiming Angle Horizontal Footcandles		
D	FC	L	W
5.0'	96	4.1	4.1
7.5'	43	6.3	6.3
10.0'	24	8.4	8.4
12.5'	16	10.6	10.6

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Solace

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PROJECT:	TYPE:

Performance Data - Round Pinhole Downlight *(SOL-RPD)*

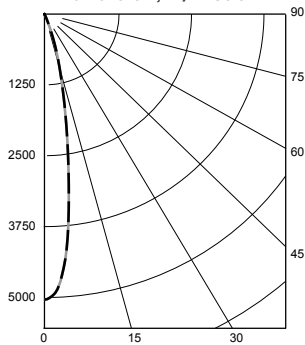**Multiplying Factors:** *(Multiplying Factor is based on 3000K-83 120V IES file on website)*

Wattage:	8W	12W	17W
Factor:	0.53	0.78	1.0

Lens:	Solite
Factor:	0.95

CCT:	2700K-83	3000K-83	3500K-83	4000K-83	2700K-90+	3000K-90+	3500K-90+	4000K-90+	CRISP	3CLA
Factor:	0.98	1.0	1.02	1.04	0.84	0.87	0.90	0.91	0.65	0.70

17W LED, 3000K-83

Spot (SP) Distribution, 15°
LTL # 13659730.05
Lumens: 617; lm/W: 36.6

Candelas at Nadir

Deg	Candela
0	5039
5	4155
15	909
25	38
35	7
45	4

Application Data - Round Pinhole Downlight *(SOL-RPD)*
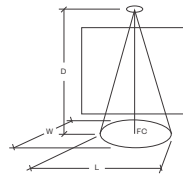
Notes and Definitions:
Beam spread is to 50% center beam candlepower (CBCP).
D=Distance to floor or wall.
FC=Footcandles on floor or wall at center beam aiming location.
L=Effective Visual Beam length in feet (50% of maximum footcandle level).
W=Effective Visual Beam width in feet (50% of maximum footcandle level).

0° Aiming Angle
Horizontal
Footcandles

	D	FC	L	W
Spot	5.0'	202	1.5	1.5
	7.5'	90	2.4	2.4
	10.0'	51	3.2	3.2
	12.5'	32	3.8	3.8

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amerlux

PROJECT:	TYPE:

Dimming Compatibility

Amerlux® Solace fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---

TRIAC *(Forward Phase)* DIMMING *(Standard)*
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

Notes:
- 120VAC or 277VAC*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

TRIAC Wiring Diagram
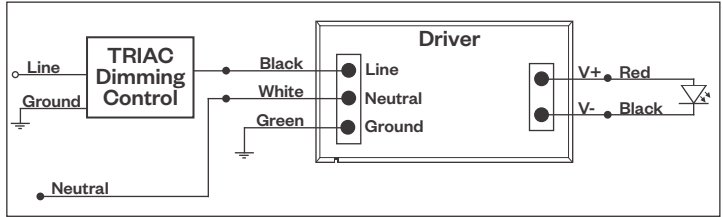
Compatible Dimmers†:

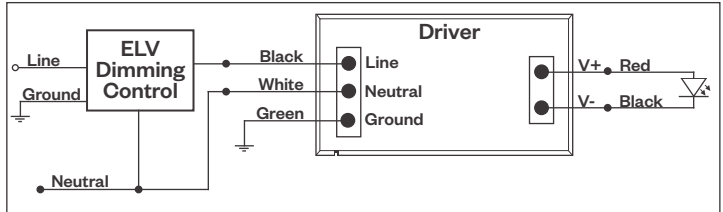| Wall Box *(TRIAC 120VAC)*	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

ELV - Electronic Low Voltage *(Reverse Phase)* DIMMING *(Standard)*
Utilizes specialized "ELV" dimmers.

Notes:
- 120VAC or 277VAC*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

ELV Wiring Diagram

Compatible Dimmers†:

Wall Box *(ELV 120VAC)*	Wall Box *(ELV 277VAC)*	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

Notes:
* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.
† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

Solace
3" Shallow Round Downlights

PROJECT:	TYPE:

Dimming Compatibility *(continued)*

Amerlux® Solace fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (Dimmer, Fixture Quantity, Voltage, etc) may affect dimming performance.

**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

0-10V DIMMING

Integrates into a variety of building management and daylighting controls

Notes:
- 120VAC or 277VAC*
- Dims down to 1% light output
- Requires interface to turn off power to driver
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

0-10V Wiring Diagram
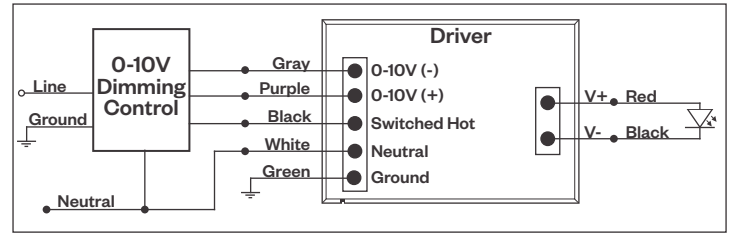
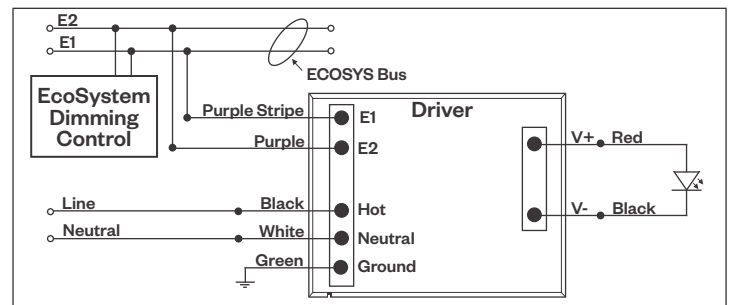| Compatible Dimmers†:		
Wall Box		**Central System**
Lutron "Diva" - DVSTV	Leviton Renoir II 0-10V	Lutron Grafik Eye with GRX-TVI Interface

LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

Notes:
- 120VAC or 277VAC*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

LDE1 *(HILUME-H-ECO)* **EcoSystem Digital Control Wiring Diagram**

Compatible Dimmers†:	
Lutron ECO System	**Central System**
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

Notes:

* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.

Delta Intelligent Building Technologies

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Amerlux reserves the right to change details that do not affect overall function and performance.
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