

#### 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.





#### **Product Overview**

Type: Shallow Round Lens Wall Wash

Wattage: 8W, 12W, 17W

Color Temp: 2700K, 3000K, 3500K, 4000K

CRI: 83 typ. or 90+ typ.

OrispWhite & 3K Olass A available 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)

#### **Certifications**





#### **Fixture Summary**

**Fixture Type** 

Dimming:

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	СВСР	Color Temp-CRI
8	565	67	319	3000K-83
12	831	67	470	3000K-83
17	1066	63	602	3000K-83

Data is based on 3000K-83120V IES files available on website.

#### **Electrical Data**

	8W		12W		17W		
Voltage	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.





PROJECT: TYPE:

#### **Ordering Information - Housing/Frame**

1 2 3 4 5 6 7

1 Model

**SOL-RLW-NC** (New Construction & Insulated Ceiling (IC rated))

**SOL-RLW-CP** (Chicago Plenum (CCEA) housing) **SOL-RLW-IC** (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 (565 lm)

**12** (831 lm)

**17** (1066 lm)

(Lumen data based on 3000K-83. See pg 5 for other performance data)

4 Voltage

120/277 (universal voltage)

5 Color Temp

**83 CRI 90+ CRI**<sup>T24</sup> **279** 2700K-83 **279** 2700K-90+ **30** 3000K-83 **309** 3000K-90+

**279** 2700K-90+ **CRISP\*** CrispWhite **309** 3000K-90+ **3CLA\*** 3000K Class A

**35** 3500K-83 **359** 3500K-90+ **40**\* 4000K-83 **409**\* 4000K-90+

\* Consult factory for lead time.

6 **Driver** (for non-dimming, select LE/TE option)

LE/TE<sup>T24</sup> TRIAC/ELV dimming

**0-10V**<sup>T24</sup> 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)

7 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**

SOL-RLW

Model

1

SOL-RLW (wall wash)

3

2 Style

T trimmed

**TL** trimless (not available for use with shower trim)

**MWK** millwork (not available for use with shower trim)

3 Finish

Trimmed

**MBW** matte black, white flange **MWW** matte white, white flange

**SLVW** matte silver, white flange **MBB** matte black, black flange **SLVS** matte silver, silver flange

Trimless/Millwork

MB matte black
MW matte white

**SLV** matte silver





#### PROJECT: TYPE:

#### **Specifications**

#### **Application**

Retail and commercial wall wash 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

Injection molded optic lens

#### 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 7-8 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 IC/AT rated

#### Warranty

5 year limited warranty

#### Weight

Housing and trim - 5 lbs.

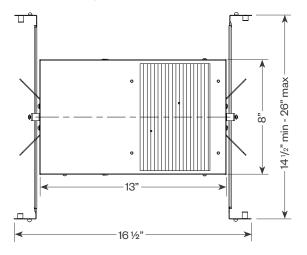




PROJECT: TYPE:

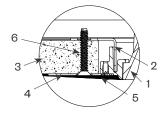
#### **Product Details**

#### Solace Round Downlights



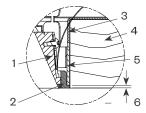
#### Plaster Frame Installation Detail (for trimless fixture only)

- 1. Reflector Trim
- 2. Aperture Plate
- 3. Ceiling 5%"
- 4. Cast Aluminum Plaster Frame
- 5. Plaster Skim Coat (by others)
- 6.6-32 Type F Thread Cutting Screw



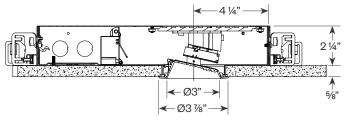
#### Millwork Detail

- 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



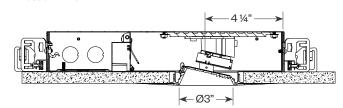
#### **Round Downlight**

Trimmed



Cut Out Dimension: 3 9/16" dia.

#### Trimless & Millwork



Trimless Cut Out Dimension:  $4\frac{1}{16}$ " dia. Millwork Cut Out Dimension:  $3\frac{9}{16}$ " dia.





PROJECT: TYPE:

#### Solace Round Lens Wall Wash Performance Breakdown

M	Color	Wall W	/ash
Wattage	Temp.	Lumens	LPW
	27	554	66
	30	565	67
	35	576	69
	40	593	71
0144	279	475	56
8W	309	492	59
	359	508	61
	409	508	61
	CRISP	367	44
	3CLA	395	47
	27	815	65
	30	831	67
	35	848	68
	40	873	70
10\\\	279	698	56
12W	309	723	58
	359	748	60
	409	748	60
	CRISP	540	43
	3CLA	582	47
	27	1045	62
	30	1066	63
	35	1087	64
	40	1119	66
17) //	279	895	53
17W	309	927	55
	359	959	57
	409	959	57
	CRISP	693	41
	3CLA	746	44





PROJECT: TYPE:

#### **Performance Data**

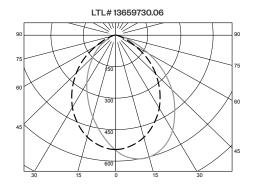
Multiplying Factors: (Multiplying Factor is based on 3000K-83 120V IES file on website)

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



#### ZONAL LUMEN SUMMARY

<u>Zone</u>	<u>Lumens</u>	<u>%Fixt</u>
0-40	616	57.8
0-60	961	90.1
0-90	1067	100.1
90-180	0	0.00

Luminaire Efficacy: 62.8 lm/W

#### Application Data (footcandles on wall)

1.5 Feet from Wall			<b>—</b>	1.5′→	<b>←</b> 1.5′	<b>&gt;</b>	1.5′→	<b>←</b> 1.5′	<b>→</b>
	Ø	0.5'	35	41	42	42	42	40	35
	ceiling	1.5'	72	88	92	93	92	88	72
		2.5'	57	70	76	77	76	70	57
	from	3.5'	36	43	48	49	48	44	37
		4.5'	23	27	30	31	30	28	23
	ĕ	5.5'	16	18	20	21	20	19	16
	Distance	6.5'	12	13	14	15	14	13	12
	ă	75'	9	10	11	11	11	10	9

Footcandles are average and rounded off.

Data for multiple units are based

on a minimum of five units.

1.5 Feet from Wall			<b>~</b>	<b>—</b> 2′ <b>—</b>	><	—2′ —	<b>&gt;</b>	-2'-	<b>&gt;</b>  <	<b>—</b> 2′ <b>—</b>	<b>—</b>
	Оď	0.5'	30	30	33	31	34	30	33	30	30
	ceiling	1.5'	61	67	71	70	72	69	71	67	61
	oe	2.5'	47	55	59	60	61	60	59	55	47
	from	3.5'	29	35	38	39	40	40	38	35	30
	e fr	4.5'	19	22	24	26	26	26	25	23	20
	istance	5.5'	13	15	17	18	18	18	17	16	14
	sta	6.5'	10	11	12	13	13	13	13	12	11
	=	7 []	0	0	10	10	10	10	10		0

2 Feet from Wall

		<b>—</b>	—2' —	<b>→</b>  <	-2'-	<b>→</b>  <	-2'-	<b>&gt;</b>	<b>-2</b> '-	->
ng	0.5'	14	15	17	16	17	17	17	16	15
≔	1.5'	40	45	48	48	49	48	48	45	39
ee e	2.5'	41	50	53	55	55	55	53	50	42
from	3.5'	31	37	40	42	42	42	40	37	31
	4.5'	22	26	28	30	30	30	28	26	22
istance	5.5'	16	18	20	21	21	21	20	19	16
sta	6.5	12	14	15	16	16	16	15	14	12
Ö	7.5'	10	11	11	12	12	12	12	11	10





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)

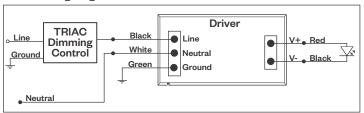
Utilizes standard TRIAC dimmers that are in wide use in installations across the US. Best for retrofit applications where TRIAC dimmers are installed.

#### 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

Compatible Dimmers†:	
Wall Box (TRIAC 120VAC)	Central System
Lutron "Diva"	Lutron "GP" Panel
Lutron "Nova-T"	Lutron Grafik Eye QS
Lutron "Maestro"	
Lutron "Skylark"	

#### TRIAC Wiring Diagram

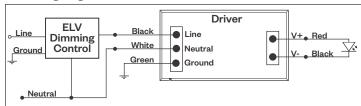


# **ELV** - **Electronic Low Voltage** (*Reverse Phase*) **DIMMING** (*Standard*) Utilizes specialized "ELV" dimmers.

#### 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.





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 Wiring Diagram

#### 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!

# O-10V Dimming Purple O-10V (-) O-10V (+) Switched Hot Neutral Ground O-10V (-) Black Oround Ground

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

#### **LUTRON LDE1 DIMMING**

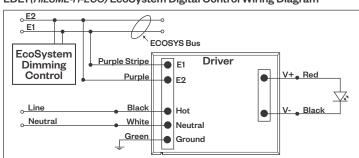
Integrates into Lutron EcoSystem building management

#### Notes:

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

Compatible Dimmers <sup>†</sup> :		
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		

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



#### 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.

