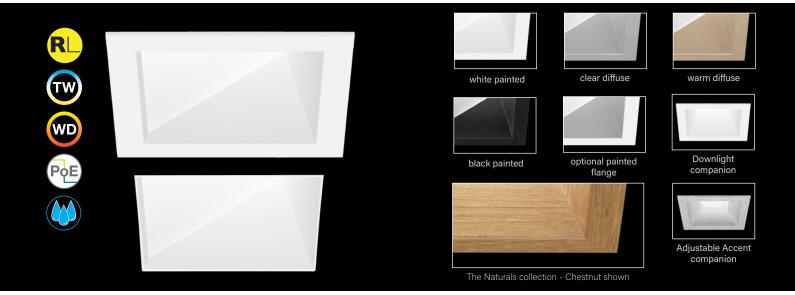
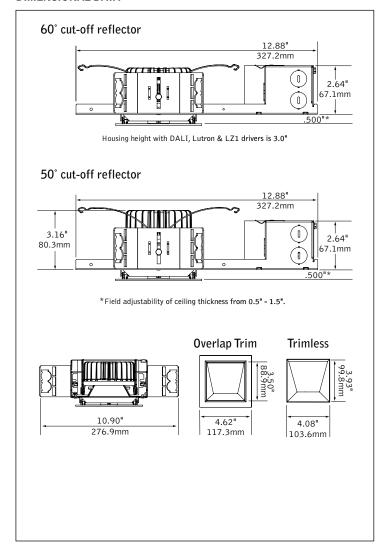
### $1D + 3.5" \times 3.5"$

**OVERLAP & TRIMLESS LED WALL WASH** 





#### **DIMENSIONAL DATA**



#### **FEATURES**

Less than 2.64" low profile housing available.

50° cut-off and 60° cut-off reflector options available.

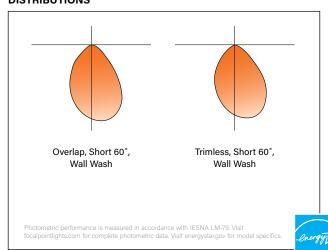
Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

Available with The Naturals, a series of finishes that exude biophilic beauty.

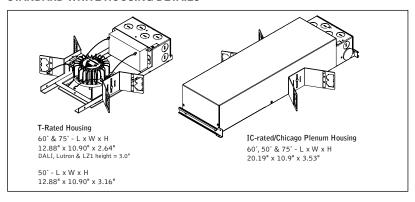
#### **DISTRIBUTIONS**



April 2025 AJ

fixture: project:

#### STANDARD WHITE HOUSING DETAILS



#### 3.5" SQUARE WALL WASH PERFORMANCE TABLES

Based on Overlap, Tall Cone, Clear Diffuse.. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

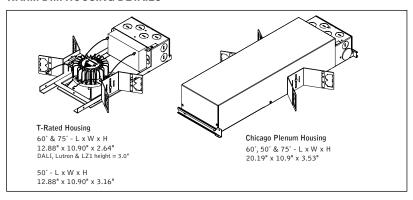
STANDARD WHITE										
ССТ	Lumen Output	<b>Delivered Lumens</b>	System Watts	LPW						
	700L	712	11	64						
050016	900L	913	16	56						
3500K, 80CRI	1100L	1104	19	58						
000111	1300L	1299	22	58						
	1500L	1533	26	59						

#### STANDARD WHITE

STANDARD WHITE		
HOUSING ORDERING Housing Series		FLC33W
ID+ 3.5" Square Trim Type	FLC33W	
Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options Standard White, 80 & 90 CRI High 97 CRI	SW HC	
Lumen Output 700 Lumen	700L	
900 Lumen 1100 Lumen 1300 Lumen 1500 Lumen	900L 1100L 1300L 1500L	
Voltage	LINIV	
(IC-rated housing: SW - 1100lm max., HC - 900lm max. T-rated & TW housings: SW - 700lm max., HC not available).	120	
277V Low Voltage (IC-rated housing: SW - 1100lm max., HC - 900lm max. T-rated & TW housings: SW - 700lm max, HC not available.)	277 LV	
Control System & Dimming Level 0-10V - 1% Dimming 0-10V - 1% Dimming 0-10V - 10% Dimming	LZ1 L11 LD1	
Low Voltage, PoE Compatible (No driver. LV voltage only.)	LVN	
Forward Phase (120V only) Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming DALI <1% Dimming DALI - 1% Dimming	LFP LH1 DZ1 D11	
Housing Type		
IC-Rated / Airtight Thermally Protected, Non-IC	IC T	
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required) Factory Options	TW	
Bar Hangers Chicago Plenum	BH CP	
Outdoor Rated (LD1 driver and T-rated housing only. Not available with CP.	OD	
See dimming performance table on page 5.)  TRIM & LED MODULE		
Aperture	LC33	
3.5" Square Reflector 3.5" Square AirtightReflector Trim Type	LC33AT	
Square Die-Cast Overlap Square Die-Cast Trimless Color Options	SDO SDT	
(Trim & housing must match) Standard White, 80 & 90 CRI High 97 CRI	SW HC	
Lumen Output (Trim & housing output must match)		
700 Lumen 900 Lumen	700L 900L	
1100 Lumen 1300 Lumen	1100L 1300L	
1500 Lumen	1500L	
Color Temperature (Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.)		
2700K, 80/90/97+ CRI 3000K, 80/90/97+ CRI	_27K 30K	
3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI	_35K _40K	
Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off Finish	WWT WWS	
(See finishes page for The Naturals options)  Clear Diffuse	CD	
Warm Diffuse Black White	WD BK WH	
Optional Flange Finish (Overlap CD & WD finish only) (For matching finishes leave blank) Black Painted	BP	
White Painted	WP	
ACCESSORIES	1.022	
Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT	



#### WARM DIM HOUSING DETAILS

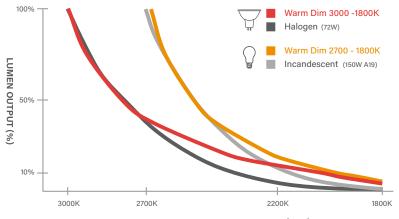


#### 3.5" SQUARE WALL WASH PERFORMANCE TABLE

Based on Overlap, Tall Cone, Clear Diffuse.. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

		W WARM DIM		
CCT Range	Lumen Output	<b>Delivered Lumens</b>	System Watts	LPW
2700 - 1800K	1100L	980	25	39
3000 - 1800K	1100L	1001	25	40

The 3000K to 1800K and 2700K to 1800K ranges mimic the black body curves of halogen and incandescent light sources, respectively.



**CORRELATED COLOR TEMPERATURE (CCT)** 



#### WARM DIM

#### HOUSING ORDERING

**Housing Series** FLC33W ID+ 3.5" Square FLC33W

WDM

1100L

WDM

1100L

**Trim Type** 

Square Die-Cast Overlap SDO **Square Die-Cast Trimless** SDT

> **Color Options** Warm Dim WDM

**Lumen Output** 1100 Lumen 1100L

Voltage

120V 120 277V 277

**Control System & Dimming Level** 

0-10V <1% Dimming LZ1

0-10V - 1% Dimming L11 0-10V - 10% Dimming LD1

Forward Phase (120V only) LFP

Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming LH1 DALI <1% Dimming DZ1

DALI - 1% Dimming D11

**Housing Type** 

IC-Rated / Airtight IC Thermally Protected, Non-IC T Thermally Protected, Non-IC Wood TW

(Trimless only. Wood kit required)

**Factory Options** 

Bar Hangers BH

Chicago Plenum CP Outdoor Rated OD

(LD1 driver and T-rated housing only. Not available with CP. See dimming performance table on page 5.)

#### **TRIM & LED MODULE**

**Aperture** 

3.5" Square Reflector LC33 3.5" Square AirtightReflector LC33AT

**Trim Type** 

Square Die-Cast Overlap SDO **Square Die-Cast Trimless** SDT

**Color Options** 

Warm Dim WDM **Lumen Output** 

1100 Lumen 1100L

**Color Temperature** 

Warm Dim: 2700-1800K, 90+ CRI 92718W Warm Dim: 3000-1800K, 90+ CRI 93018W

Optic

Tall Cone with 50° cut-off WWT Short Cone with 60° cut-off WWS

(See finishes page for The Naturals options) Clear Diffuse CD

Warm Diffuse WD

Black BK White WH

**Optional Flange Finish** 

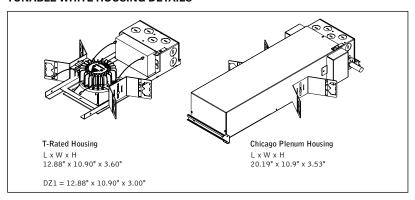
(Overlap CD & WD finish only) (For matching finishes leave blank)

Black Painted BP WP White Painted

**ACCESSORIES** 

LC33-Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights) WOOD-KIT fixture: project:

#### **TUNABLE WHITE HOUSING DETAILS**



#### 3.5" SQUARE WALL WASH PERFORMANCE TABLES

Based on Overlap, Tall Cone, Clear Diffuse... Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

TUNABLE WHITE											
ССТ	Lumen Output	Delivered Lumens	System Watts	LPW							
2700K (2700-5000K & =	700L	711	16	43							
2700-6500K &	900L	901	21	43							
1800K (1800-4000K)	700L	709	24	30							

The Comfort (1800K-4000K), Preference (2700K-5000K), and Activity (2700K-6500K) ranges give specifiers the tools to ehnance spaces, mood, and alertness.

#### DAYLIGHT RANGE





#### **TUNABLE WHITE**

HOUSING ORDERING		
Housing Series ID+ 3.5" Square	FLC33W	FLC33W
<b>Trim Type</b> Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options Tunable White: 1800-4000K	1840T	
(700L only) Tunable White: 2700-5000K Tunable White: 2700-6500K	2750T 2765T	
<b>Lumen Output</b> 700 Lumen 900 Lumen	700L 900L	
<b>Voltage</b> 120V 277V	120 277	
Control System & Dimming Level 0-10V <1% Dimming DALI <1% Dimming (Default driver offers DT6 control. It requires two addresses, one for intensity & one for CCT tuning. Consult factory for DT8. Extended lead time apply.)	LZ1 DZ1	
Housing Type Thermally Protected, Non-IC Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	T TW	
Factory Options  Bar Hangers	ВН	
Chicago Plenum (2750T & 2765T only.)	СР	
TRIM & LED MODULE		
Aperture 3.5" Square Reflector 3.5" Square AirtightReflector	LC33 LC33AT	
<b>Trim Type</b> Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options (Trim & housing must match) Tunable White: 1800-4000K Tunable White: 2700-5000K Tunable White: 2700-6500K	1840T 2750T 2765T	
Lumen Output (Trim & housing must match) 700 Lumen 900 Lumen	700L 900L	
Color Temperature Tunable White: 1800-4000K, 90+ CRI Tunable White: 2700-5000K, 90+ CRI Tunable White: 2700-6500K, 90+ CRI	91840T 92750T 92765T	
Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off	WWT WWS	
Finish (See finishes page for The Naturals options) Clear Diffuse Warm Diffuse Black White	CD WD BK WH	
Optional Flange Finish (Overlap CD & WD finish only) (For matching finishes leave blank) Black Painted	BP	

White Painted WP

ACCESSORIES
Trimless Wood Ceiling Installation Kit
(One kit recommended per 10 downlights) WOOD-KIT

#### HOUSING SPECIFICATIONS

#### Construction

Thermally protected housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Restrictive airflow per ASTM-E283. Butterfly brackets allow mounting to 1/2" emt. Order bar hangers as an accessory. Die-cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) 1/2" pry outs. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. For thicker ceiling consult factory. Fixture will not exceed 5 lb. LC33AT trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings.

#### Electrical

Choice of constant current dimming drivers. Power factor > .9 typical. PoE compatible: Integrates with Power over Ethernet lighting systems via standard, low-voltage wires.

#### Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications.

# Lumen Output Minimum Dimming Level 700L 20% 900L 16% 1100L 13% 1300L 10% 1500L 10%

#### Lumen Maintenance

 Reported:
 L70 at >55,000 hours
 Calculated:
 L70 at 204,000 hours

 L90 at >55,000 hours
 L90 at 59,000 hours

Derived from EPA TM-21 calculator. Based on typical conditions, consult factory for additional data.

#### Reliability

At Focal Point, our products are designed to stand the test of time. Each luminaire is engineered using superior components, manufactured with the utmost care and rigorously tested. Contact us for reliability data.

#### Warranty

LED System rated for operation in ambient environments up to 25°C. 5-year limited warranty. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -20°C to +40°C.

#### **TRIM & LED SPECIFICATIONS**

#### LED System

Proprietary array incorporates premium LEDs on a robust platform. May be specified in 2700K, 3000K, 3500K or 4000K, Warm Dimming (2700K-1800K and 3000K-1800K), or Tunable White (1800K-4000K, 2700K-5000K and 2700K-6500K), CRI>80, >90 or 97. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

#### Aesthetics

Die-formed aluminum reflector ensures glare free optics. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. The Naturals: 100% low VOC vinyl.

#### Optics

50-degree or 60-degree cut-off to light source and its image. Wall wash features acrylic diffuser to provide smooth illumination down the wall.



### ID+ 3.5" Downlight and Wall Wash Focal Point, LLC

Final Assembly: Chicago, Illinois, USA Life Expectancy: 10 Year(s) End of Life Options: Recyclable (55%), Landfill (45%)

#### Ingredients:

Steel; Small Electrical Components - RoHS Compliant<sup>1</sup>; Carbonic dichloride, polymer with 4.4'-(1-methylethylidene)bis[phenol], 4-(1-methyl-1-phenylethyl)phenyl ester; Zinc; Steel manufacture, chemicals; Copper; Polyethylene; Polypropylene; Polyvinyl chloride; Steel, carbon

<sup>1</sup>LBC Temp Exception RL-002 - Small Electrical Components

#### Living Building Challenge Criteria:

#### I-13 Red List:

☐ LBC Red List Free % Disclosed: 100% at 100ppm ☐ LBC Red List Approved VOC Content: Not Applicable

■ Declared

I-10 Interior Performance: Not Applicable
I-14 Responsible Sourcing: Not Applicable

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INTERNATIONAL LIVING FUTURE INSTITUTE" living-future.org/declare

## 1D+ 3.5" x 3.5"

#### WALL WASH DESIGN GUIDE - 1500 LUMEN, SHORT CONE (WWS) EXAMPLE

Cal	culation											Fo	otca	andl	es													
					ıres	3' fr	om	Wal	I			Fixtures 3.5' from Wall					Fixtures 4' from Wall											
from Ceiling 3' O			3' 00	C	3.5' OC		С	_	1' O	0	3	3' OC		3.5' OC		4' OC			3' OC			3.5' OC			4' OC			
	3"	6	6	6	7	6	7	7	6	7	5	5	5	5	5	5	6	5	6	4	4	4	4	4	4	5	5	5
0	6"	9	9	9	10	9	9	10	9	10	7	7	7	8	7	7	8	7	7	6	6	6	6	6	6	6	6	6
<u>-</u> -	9"	13	14	13	14	13	13	14	13	14	10	11	10	10	10	10	10	10	10	8	9	8	8	8	8	8	9	8
	12"	17	18	17	17	17	17	17	16	17	13	14	12	13	13	13	12	13	12	10	11	10	10	10	10	10	10	10
	2'	18	20	19	19	19	19	19	18	19	14	15	14	14	14	14	14	14	14	11	12	11	11	12	11	11	11	11
	3'	25	28	25	24	26	24	23	24	23	19	21	19	18	20	18	17	18	17	15	17	15	14	15	14	14	15	14
	4'	28	32	28	26	29	26	24	26	24	23	27	23	21	24	21	20	22	20	18	21	18	17	20	17	16	18	16
	5'	25	29	25	23	27	23	22	24	22	23	26	23	21	25	21	20	23	20	20	23	20	19	22	19	17	20	17
	6'	20	23	20	19	22	19	18	20	18	20	23	20	19	22	19	18	20	18	19	22	19	18	20	18	17	19	17
	7'	17	19	17	16	18	16	15	17	15	17	19	17	16	18	16	15	17	15	17	19	17	16	18	16	15	17	15
	8'	14	15	14	13	15	13	12	14	12	15	16	15	14	15	14	13	15	13	15	16	15	14	16	14	13	15	13
	9'	12	13	12	11	12	11	11	12	11	12	14	12	12	13	12	11	13	11	13	14	13	12	13	12	11	13	11
	10'	8	8	8	7	8	7	7	8	7	8	9	8	8	9	8	7	8	7	9	9	9	8	9	8	8	9	8



IES File: FLC33W-SDO-SW-1500L-SDO-SW-1500L-35K-WWS-CD. Parameters: 80/50/20 reflectances, LLF=.09.

#### WALL WASH DESIGN GUIDE - 1500 LUMEN, TALL CONE (WWT) EXAMPLE

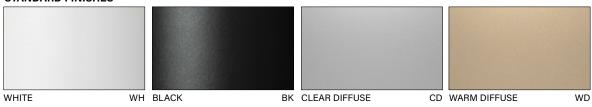
Calc	culation											Fc	otca	andl	es													
Point	Distance			Fixt	ıres	3' fr	om	Wal	ı			F	ixtu	res :	3.5'	from	n Wa	ıll				Fixt	ures	4' fr	rom	Wal	I	
from	3	3' 00	2	3.	5' C	С	4	1 00	0	3	3' 00	С	3.	5' C	С	_	1' 00		3	3' 0	С	3.	5' C	С	_	1' 00	2	
	3"	4	4	4	4	4	4	5	4	5	3	3	3	4	3	4	4	4	4	3	3	3	3	3	3	3	3	3
0	6"	6	6	6	6	6	6	7	6	7	4	4	4	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4
<u>-</u>	9"	9	10	9	10	9	10	10	9	10	7	7	7	7	7	7	7	7	7	5	6	5	6	6	5	6	6	6
	12"	12	13	12	12	12	12	13	12	12	9	10	9	9	9	9	9	9	9	7	8	7	7	7	7	7	8	7
	2'	14	15	14	14	14	14	14	14	14	10	11	10	11	11	11	11	11	11	8	9	8	8	9	8	8	9	8
	3'	17	18	17	16	17	16	16	16	16	13	15	13	13	14	13	13	13	13	11	12	11	10	11	10	10	11	10
	4'	19	22	19	18	19	18	17	18	17	15	17	15	14	16	14	13	15	13	12	14	12	12	13	12	11	12	11
	5'	19	23	19	18	20	18	17	18	17	16	19	16	15	17	15	14	16	14	13	16	13	13	14	13	12	13	12
	6'	17	20	17	16	19	16	15	17	15	16	19	16	15	17	15	14	16	14	14	16	14	13	15	13	12	14	12
	7'	15	17	15	14	16	14	13	15	13	14	17	15	14	16	14	13	15	13	14	16	14	13	15	13	12	14	12
	8'	13	14	13	12	14	12	11	13	11	13	14	13	12	14	12	11	13	11	13	14	13	12	14	12	11	13	11
	9'	11	12	11	10	12	10	10	11	10	11	13	11	11	12	11	10	12	10	11	13	11	11	12	11	10	12	10
	10'	7	8	7	7	8	7	6	7	6	8	8	8	7	8	7	7	8	7	8	9	8	7	8	7	7	8	7

IES File: FLC33W-SDO-SW-1500L-SDO-SW-1500L-35K-WWT-CD. Parameters: 80/50/20 reflectances, LLF=.09.

### **Finishes**



#### STANDARD FINISHES



#### THE NATURALS (25% SCALE)



#### **Color Lumen Multipliers**

CRI		STANDARD	WHITE CCT		WARM DIM C	CT RANGES	TUNABLE WHITE CCT RANGES					
CHI	2700	3000	3500	4000	2700-1800K	3000-1800K	1800-4000K	2700-5000K	2700-6500K			
80+	0.92	0.98	1.00	1.01	-	-	-	-	-			
90+	0.79	0.83	0.82	0.84	0.89	0.91	1.00	1.00	1.00			
97	0.67	0.72	0.73	0.76	-	-	-	-	-			

#### **Distribution Lumen Multipliers**

Trim Type	Optic	Distribution	Multiplier
Square Die-Cast	Tall Cone with 50° cut-off [WWT]	Wall Wash	1.09
Trimless [SDT]	Short Cone with 60° cut-off [WWS]	Wall Wash	1.32
Square Die-Cast	Tall Cone with 50° cut-off [WWT]	Wall Wash	1.02
Overlap [SDO]	Short Cone with 60° cut-off [WWS]	Wall Wash	1.22

#### **Color Lumen Multipliers**

Trim Type	Optic	Color	Multiplier
		Clear Diffuse [CD]	1.00
	Tall Cone with 50° cut-off [WWT]	Warm Diffuse [WD]	0.94
	Tall Colle With 30 Cut-on [WW1]	White [WH]	1.45
ALL		Black [BK]	0.59
ALL		Clear Diffuse [CD]	1.00
	Short Cone with 60° cut-off [WWS]	Warm Diffuse [WD]	0.92
	Short cone with our car-on [www3]	White [WH]	1.32
		Black [BK]	0.68
		Woven Linen [WLN]	0.93
		Walnut [WLT]	0.45
ALL	ALL	Gray Elm [GRE]	0.72
		Chestnut [CHT]	0.75
		Light Oak [LOK]	0.90

#### **How To Use Lumen Multipliers**

#### Formula:

(Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

LC33-SDO-SW-1100L-935K-WWS-WH (1100) x (0.81) x (1.32) x (1.32) ≈ 1552lm (estimated delivered lumens)

Multiplier charts are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. An estimation should make use of all tables through consecutive application of three multipliers. Refer to IES files for most accurate photometric information.