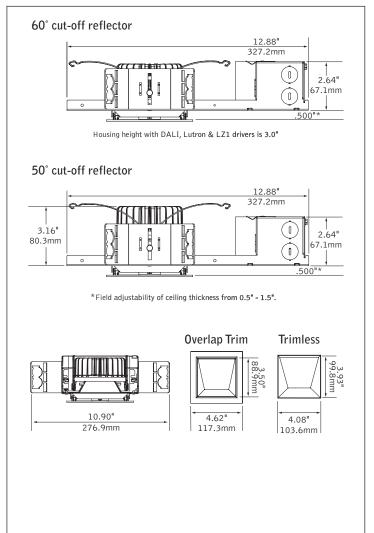


DIMENSIONAL DATA



FEATURES

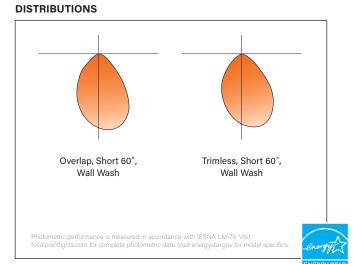
Less than 2.64" low profile housing available.

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

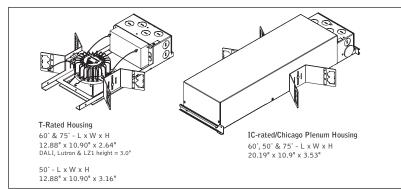
Tunable White: Supports human activity, well-being, and preferences with a light quality that evolves throughout the day.

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.



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	Delivered Lumens	System Watts	LPW
	700L	712	11	64
25001/	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 ID+ 3.5" Square	FLC33W	FLC33W
Trim Type	FLCJJW	
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 900 Lumen	700L 900L	
1100 Lumen 1300 Lumen	1100L 1300L	
1500 Lumen	1500L	
Voltage 120/277 Volt	UNV	
(IC-rated housing: SW - 1100lm max, HC - 900lm max. T-rated & TW housings: SW - 700lm max, HC not available.)	UNV	
120V	120	
277V Low Voltage	277 LV	
(IC-rated housing: SW - 1100lm max., HC - 900lm max. T-rated & TW housings: SW - 700lm max., HC not available.)		
Control System & Dimming Level	1 74	
0-10V <1% Dimming 0-10V - 1% Dimming	LZ1 L11	
0-10V - 10% Dimming Low Voltage, PoE Compatible	LD1 LVN	
(No driver. LV voltage only.)		
Forward Phase (120V only) Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming Lutron Hi-Lume - Forward Phase (120V only) -	LFP LH1 LTE	
1% Dimming DALI <1% Dimming	DZ1	
DALI - 1% Dimming	D11	
Housing Type IC-Rated / Airtight (SW - 1100lm max, HC - 900lm max. Not available with LTE.)	IC	
Thermally Protected, Non-IC	T	
Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	TW	
Factory Options Bar Hangers	вн	
Chicago Plenum	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		
3.5" Square Reflector 3.5" Square AirtightReflector	LC33 LC33AT	
Trim Type	LOJJAI	
Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options	001	
(Trim & housing must match) Standard White, 80 & 90 CRI	SW	
High 97 CRI	HC	
Lumen Output (Trim & housing output must match)		
700 Lumen 900 Lumen	700L 900L	
1100 Lumen	1100L	
1300 Lumen 1500 Lumen	1300L 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	_27K	
3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI	_30K _35K	
4000K, 80/90/97+ CRI	_40K	
Optic Tall Cone with 50° cut-off	WWT	
Short Cone with 60° cut-off	WWS	
Finish Clear Diffuse	CD	
Warm Diffuse Black	WD BK	
White	WH	
Optional Flange Finish (Overlap CD & WD finish only) (For matching finishes leave blank)		
Black Painted	BP WP	
White Painted	VVF	

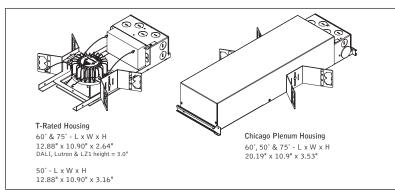
ACCESSORIES

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

Options in **red** and **orange** qualify for **2-day** and **5-day** Quickship respectively, up to 100 pieces. If **red** and **orange** options make an ordering string, **5-day Quickship** applies. See Quickship Guide for more details. (QS)(QS)

project:

WARM DIM HOUSING DETAILS

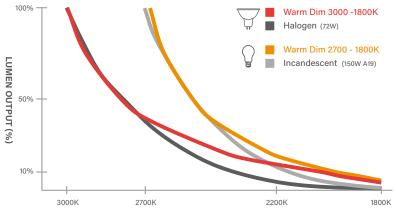


3.5" SQUARE WALL WASH PERFORMANCE TABLE

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

		😡 WARM DIM		
CCT Range	Lumen Output	Delivered Lumens	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.

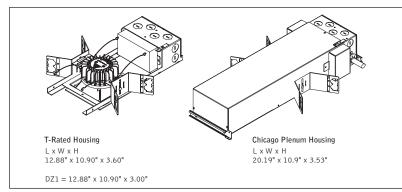


CORRELATED COLOR TEMPERATURE (CCT)

HOUSING ORDERING Housing Series ID+ 3.5" Square	FLC33W	FLC33W
Trim Type Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options Warm Dim	WDM	WDM
Lumen Output 1100 Lumen	1100L	1100L
Voltage 120V 277V	120 277	
Control System & Dimming Level 0-10V <1% Dimming 0-10V - 1% Dimming 0-10V - 10% Dimming Forward Phase (120V only) Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming Lutron Hi-Lume - Forward Phase (120V only) - 1% Dimming DALI <1% Dimming DALI - 1% Dimming	LZ1 L11 LFP LH1 LTE DZ1 D11	
Housing Type IC-Rated / Airtight (LTE not available.) Thermally Protected, Non-IC Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	IC T TW	
Factory Options Bar Hangers Chicago Plenum Outdoor Rated (LD1 driver and T-rated housing performance table with CP. See dimming performance table on page 5)	BH CP OD	
TRIM & LED MODULE		
Aperture 3.5" Square Reflector 3.5" Square AirtightReflector	LC33 LC33AT	
Trim Type Square Die-Cast Overlap Square Die-Cast Trimless	SDO SDT	
Color Options Warm Dim	WDM	WDM
Lumen Output 1100 Lumen	1100L	1100L
Color Temperature Warm Dim: 2700-1800K, 90+ CRI Warm Dim: 3000-1800K, 90+ CRI	92718W 93018W	
Optic Tall Cone with 50° cut-off Short Cone with 60° cut-off	WWT WWS	
Finish 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 White Painted	BP WP	
ACCESSORIES	1 (22)	
Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC33- WOOD-KIT	

WARM DIM

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%

	т 🐨	UNABLE 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 enhance spaces, mood, and alertness.

DAYLIGHT RANGE





TUNABLE WHITE

HOUSING ORDERING

Housing Series ID+ 3.5" Square	FLC33W	FLC33W
Trim Type Square Die-Cast Overlap Square Die-Cast Trimless	SDO	
Color Options Tunable White: 1800-4000K (700L only) Tunable White: 2700-5000K Tunable White: 2700-6500K	1840T 2750T 2765T	
Lumen Output 700 Lumen 900 Lumen	700L 900L	
Voltage 120V 277V	120 277	
Control System & Dimming Level 0-10V <1% Dimming Lutron T-Series <1% Dimming DALI <1% Dimming	LZ1 LTZ DZ1	

Lutron

(Requires 2 addresses, one for light intensity & one for color tuning)

Housing Type

Thermally Protected, Non-IC Thermally Protected, Non-IC Wood TW (Trimless only. Wood kit required)

Factory Options

Bar Hangers BH Chicago Plenum CP (2750T & 2765T only.)

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

(Trim 8 Tunable White: 1800-4000K Tunable White: 2700-5000K 1840T 2750T Tunable White: 2700-6500K 2765T

Lumen Output (Trim &

700 Lumen 700 L 900 Lumen 900L

Color Temperature

Tunable White: 1800-4000K, 90+ CRI Tunable White: 2700-5000K, 90+ CRI 91840T 92750T Tunable White: 2700-6500K, 90+ CRI 92765T

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

Finish

Clear Diffuse CD Warm Diffuse WD Black BK White WH

Optional Flange Finish

(Overlap CD & WD finish only) (F Black Painted BP White Painted WP

ACCESSORIES

Trimless Wood Ceiling Installation Kit LC33nded per 10 downlights) WOOD-KIT (One kit recomm

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 12" 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) 12" 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.

Outdoor Rated (OD) Driver Dimming Performance table

. ,	
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
 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.

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.

Color Lumen Multipliers

CRI		STANDARD	WHITE CCT		WARM DIM C	CCT 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
		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 60 cut-on [wws]	White [WH]	1.32
		Black [BK]	0.68

How To Use Lumen Multipliers

Formula:

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

Example:

LC33-SDO-SW-1100L-935K-WWS-WH (1100) x (0.81) x (1.32) x (1.32) ≈ 1552Im (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.

ID+ 3.5" x 3.5"

LED WALL WASH

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

Cal	culation		Footcandles																									
Point	Distance			Fixt	ures	3' fr	rom	Wal	I		Fixtures 3.5' from Wall											Fixt	ures	4' fr	rom	Wal	I	
from	n Ceiling	3	3' 00	С	3.	5' C	C	C 4' OC			3	8' 00	2	3.	3.5' OC			4' OC			8' 00	С	3.	5' C	C	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

Ca	lculation	Footcandles																										
	t Distance			Fixt	ures	3' fr	rom	Wal	I			F	ixtu	res	3.5' 1	from	n Wa	II				Fixt	ures	4' fr	rom	Wal	I	
fro	m Ceiling	3' OC 3.			3.5' OC 4' OC			3	3' 00	С	3.	3.5' OC			4' OC			3' OC			3.5' OC			4' OC				
	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
	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.