

ID+ 2.5" x 2.5"

OVERLAP & TRIMLESS LED DOWNLIGHTS



Solite lens



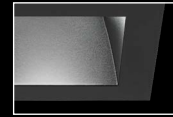
Clear diffuse



Warm diffuse



White painted



Black painted



Optional painted flange

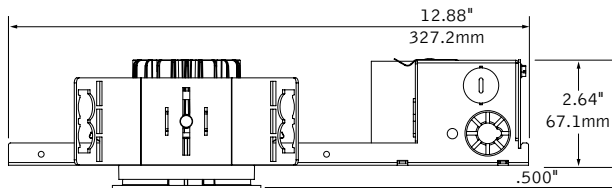


The Naturals collection - Walnut shown

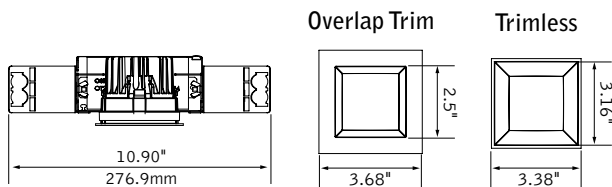


Wall Wash companion

DIMENSIONAL DATA



Field adjustability of ceiling thickness from 0.5" - 1.5"
Housing height with DALI, Lutron & LZ1 drivers is 3.0"



FEATURES

Less than 2.64" low profile housing available.

60° and 75° cut-off reflector options available.

25° to 90° beam spreads support accent lighting, task lighting and general illumination

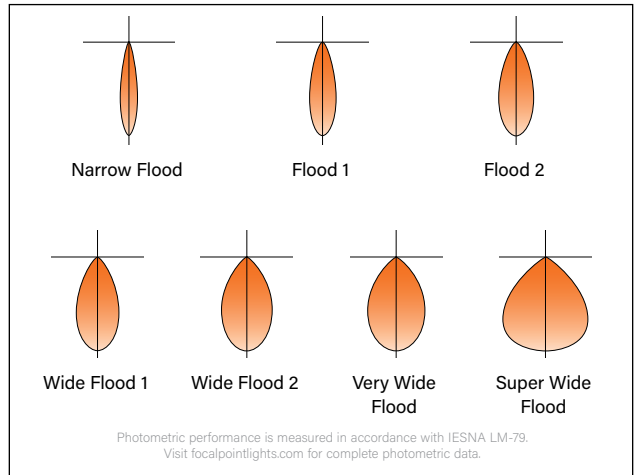
Solite lens with die-cast trim delivers 70° or 90° beam spread options.

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

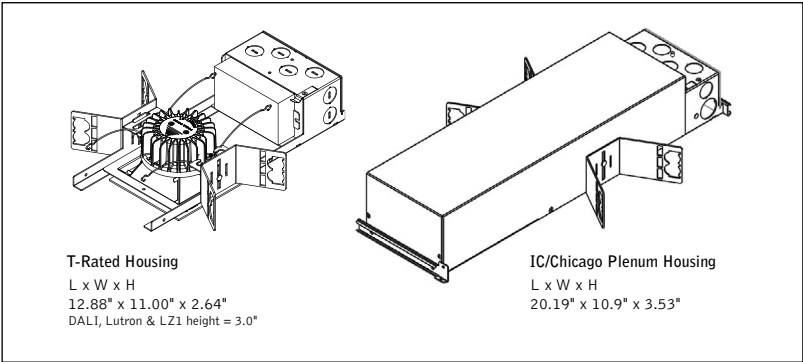


Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.

fixture:

project:

HOUSING DETAILS



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. LC22AT trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings. 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.

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.

Emergency

Above ceiling access required, overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height: Clear Diffuse & White: 17.2ft. Black & Warm Diffuse: 15.5ft.

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 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, or Warm Dimming (2700K-1800K and 3000K-1800K), CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics

Die-cast aluminum trims. Overlap trims are self-flanged. The Naturals: 100% low VOC vinyl.

Optics

60-degree or 75-degree cut-off to light source and its image.


Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria							
			NFL	FL1	FL2	WFL1	WFL2	VWFL	SWFL	
DNS		Overlap	21° 0.36	33° 0.56	43° 0.68	53° 0.80	62° 0.90	-	-	
	60°	Trimless	22° 0.38	33° 0.56	44° 0.70	53° 0.82	64° 0.92	-	-	
DSS		Overlap	-	-	-	53° 0.86	65° 0.92	72° 1.02	84° 1.18	
	75°	Trimless	-	-	-	50° 0.78	62° 0.88	71° 1.00	91° 1.28	

PERFORMANCE TABLE - see page 3.

HOUSING ORDERING

Housing Series ID+ 2.5" Square	FLC22D	FLC22D
Trim Type Square Overlap Square Trimless	SDO SDT	
Color Options Standard White, 80 & 90 CRI High 97 CRI Warm Dim (900L only. UNV, LV & EMR not available.)	SW HC WDM	
Lumen Output 500 Lumen (LT1, LD1 & LVN only) 700 Lumen (Not available with LFP, LTE or LH1) 900 Lumen (Not available with LH1 or LFP) 1100 Lumen 1300 Lumen 1500 Lumen 1700 Lumen 1900 Lumen (LT1, LD1 or LH1 only)	500L 700L 900L 1100L 1300L 1500L 1700L 1900L	
Voltage 120/277 Volt (IC-rated housing: SW & HC: 1500L max. T & TW housings: SW: 1100L max., HC: 900L max.)	UNV 120 277V	
Low Voltage (IC-rated housing: SW & HC: 1500L max. T & TW housings: SW: 1100L max., HC: 900L max.)	LV	
Control System & Dimming Level 0-10V <1% Dimming 0-10V - 1% Dimming 0-10V - 10% Dimming Low Voltage, PoE Compatible (No driver. Not available with EMR, LV voltage only.) Forward Phase (120V only) Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming Lutron Hi-Lume - Forward Phase (120V) - 1% Dimming DALI <1% Dimming DALI - 1% Dimming	LZ1 L11 LD1 LVN LFP LH1 LTE DZ1 D11	
Housing Type IC Rated / Airtight (1500L max) Thermally Protected, Non-IC Thermally Protected, Non-IC Wood (Trimless only. Wood kit required)	IC T TW	
Factory Options Bar Hangers Chicago Plenum	BH CP	
Emergency Battery - Remote test switch (Overlap trim & T Housing only. Above ceiling access.)	EMR	
Outdoor Rated (LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 3.)	OD	
TRIM & LED MODULE		
Aperture 2.5" Square Reflector 2.5" Square Airtight Reflector	LC22 LC22AT	
Trim Type Square Overlap Square Trimless	SDO SDT	
Lumen Output Trim & housing output must match. See options above.		
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 3500K, 80/90/97+ CRI 4000K, 80/90/97+ CRI Warm Dim: 2700-1800K, 90+ CRI Warm Dim: 3000-1800K, 90+ CRI	_27K _30K _35K _40K 92718W 93018W	
Optic Short Cone with 60° cut-off Super Short Cone with Solite Lens 75° cut-off (VWFL or SWFL only)	DNS DSS	
Distribution Narrow Flood (DNS Optic only) Flood 1 (DNS Optic only) Flood 2 (DNS Optic only) Wide Flood Wide Flood Very Wide Flood (DSS Optic only) Super Wide Flood (DSS Optic only)	NFL FL1 FL2 WFL1 WFL2 VWFL SWFL	
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 White Painted	BP WP	
ACCESSORIES Trimless Wood Ceiling Installation Kit (One kit recommended per 10 downlights)	LC22- WOOD-KIT	

2.5" SQUARE DOWNLIGHT PERFORMANCE TABLE

Lumen Output	Delivered Lumens	System Watts	LPW
500L	552	6.0	92
700L	747	7.6	98
 900L	939	14.6	64
900L	937	9.3	101
1100L	1145	11.2	102
1300L	1342	15.0	89
1500L	1573	17.3	91
1700L	1755	19.3	91
1900L	1966	21.8	90

Based on Overlap, Short cone, 3500K, 80 CRI, Flood 2, Clear Diffuse. WDM based on 3000 - 1800K, 90 CRI. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE TABLE

Lumen Output	Minimum Dimming Level
500L	25%
700L	18%
900L	14%
1100L	12%
1300L	10%
1500L	10%
1700L	10%
1900L	10%

2.5" SQUARE DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

Trim Type	Optic	Color Temperature & CRI		Multiplier
ALL	ALL	2700K	80+ CRI [27K]	0.92
			90+ CRI [927K]	0.79
			97 CRI [H27K]	0.67
		3000K	80+ CRI [30K]	0.98
			90+ CRI [930K]	0.83
			97 CRI [H30K]	0.72
		3500K	80+ CRI [35K]	1.00
			90+ CRI [935K]	0.82
			97 CRI [H35K]	0.73
		4000K	80+ CRI [40K]	1.01
			90+ CRI [940K]	0.84
			97 CRI [H40K]	0.76
		2700-1800K	90+ CRI [92718K]	0.99
		3000-1800K	90+ CRI [93018K]	1.04

Distribution

Trim Type	Optic	Distribution	Multiplier
Square Trimless [SDT]	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	1.04
		Flood 1 [FL1]	1.01
		Flood 2 [FL2]	1.03
		Wide Flood 1 [WFL1]	1.01
		Wide Flood 2 [WFL2]	0.88
		Wide Flood 1 [WFL1]	1.02
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Wide Flood 2 [WFL2]	0.79
		Very Wide Flood [VWFL]	0.80
		Super Wide Flood [SWFL]	0.74
		Super Wide Flood [SWFL]	0.74
Square Overlap [SDO]	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	1.04
		Flood 1 [FL1]	1.01
		Flood 2 [FL2]	1.03
		Wide Flood 1 [WFL1]	1.01
		Wide Flood 2 [WFL2]	0.88
		Wide Flood 1 [WFL1]	1.02
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Wide Flood 2 [WFL2]	0.79
		Very Wide Flood [VWFL]	0.80
		Super Wide Flood [SWFL]	0.74
		Super Wide Flood [SWFL]	0.74

Color

Trim Type	Optic	Color	Multiplier
ALL	Short Cone with 60° cut-off [DNS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.98
		White [WH]	1.07
		Black [BK]	0.88
		Black [BK]	0.88
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.99
		White [WH]	1.08
		Black [BK]	0.92
		Black [BK]	0.92
ALL	ALL	Woven Linen [WLN]	0.93
		Walnut [WLT]	0.45
		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)

Example:
LC22-SDO-SW-1100L-935K-DNS-FL1-WH

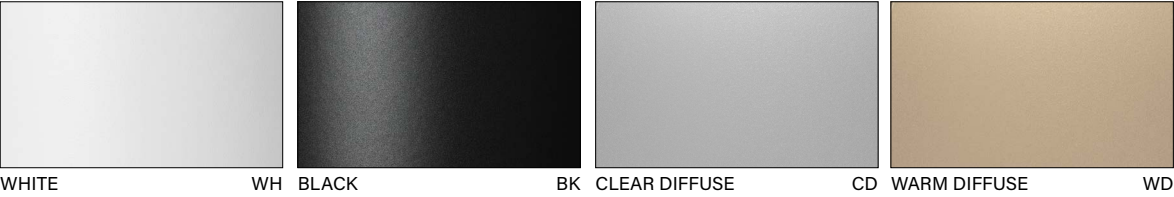
(1100) x (0.82) x (1.01) x (1.07) ≈ 1062lm
(estimated delivered lumens)

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,

Finishes



STANDARD FINISHES



WHITE WH BLACK BK CLEAR DIFFUSE CD WARM DIFFUSE WD

THE NATURALS (25% SCALE)



LIGHT OAK LOK GRAY ELM GRE CHESTNUT CHT WALNUT WLT WOVEN LINEN WLN