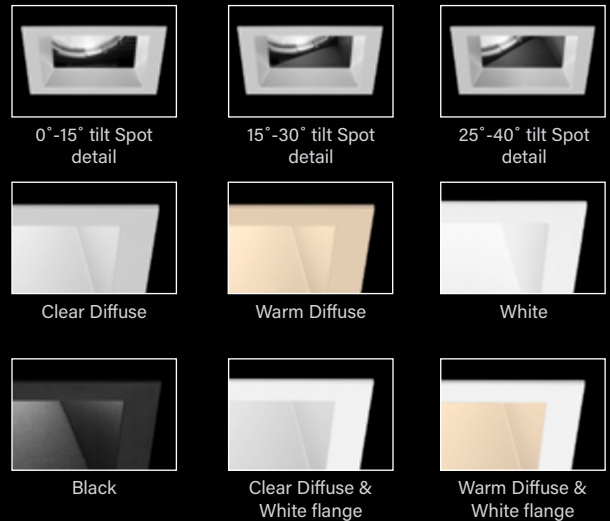
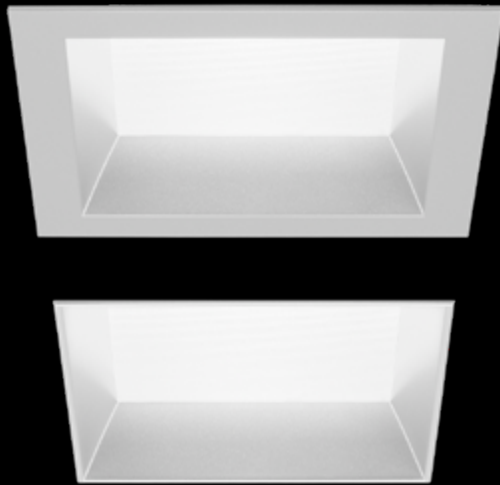


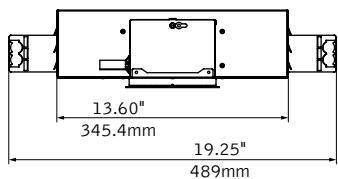
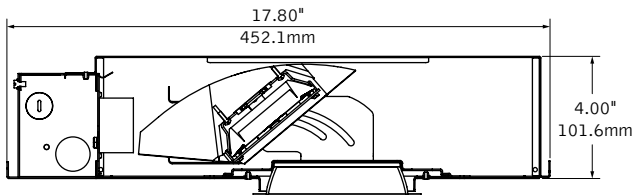
ID+ 4.5" x 4.5"

LED ADJUSTABLE DOWNLIGHT



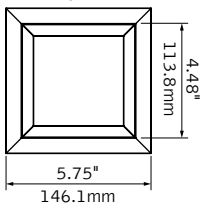
DIMENSIONAL DATA

T housing* (Solite lens optic shown)

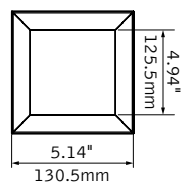


*IC/CP housings - 5.00" height.

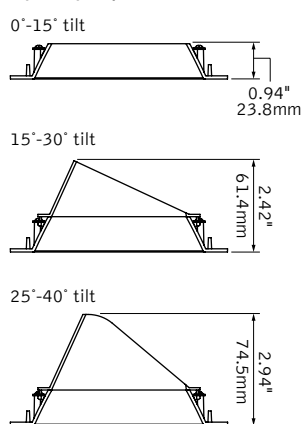
Overlap



Trimless



Spot optic, no lens



FEATURES

12° beam is ideal for art and object accenting, additional beamreads up to 90° complement any application.

Allows for aiming with locking 40° vertical tilt and 364° rotation of light module.

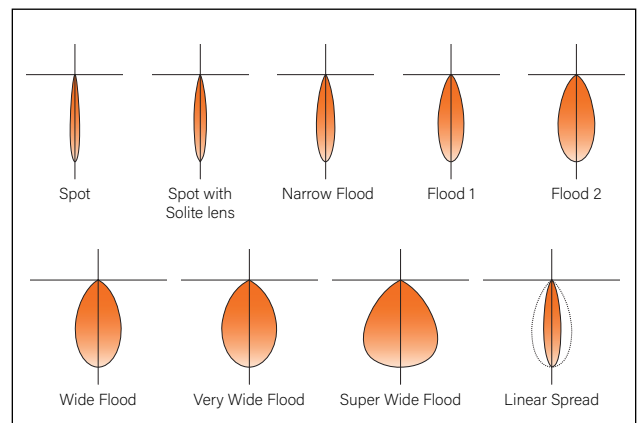
Overlap and trimless options.

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.

Outdoor rating permits use in outdoor covered ceiling applications.

DISTRIBUTIONS



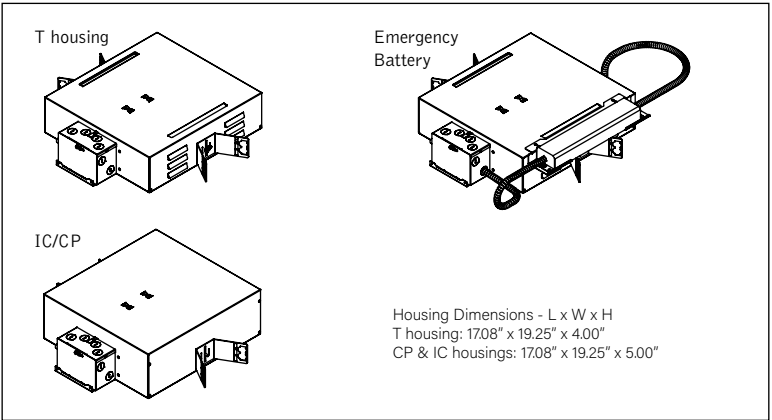
Distribution curves shown based on 2000L, Square Overlap, Clear Diffuses. Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data.



fixture:

project:

HOUSING DETAILS



HOUSING SPECIFICATIONS

LED System

Proprietary LED module with single light emitting source. May be specified in 2700K, 3000K, 3500K or 4000K in CRI>80, CRI>90, or CRI>97. Color accuracy within 2 SDCM. Warm Dim within 3-5 SDCM. Aluminum heat sink provides appropriate thermal management.

Construction

T housing for new construction applications. Insulation to be kept 3" away from housing. Type IC inherently protected, suitable for direct contact with insulation. Butterfly brackets allow mounting to ½" emt. Order bar hangers as an accessory. Cast aluminum heat sink designed for maximum thermal dissipation. Die-formed housing and integral junction box with (7) ½" pry outs. UL & cUL listed for (8) #12 AWG (4 in, 4 out) 90°C conductors and feed through-branch wiring. Accommodates ceiling thicknesses from 0.5"-1.5" standard. For thicker ceiling consult factory. Fixture will not exceed 15lb.

Adjustment

Manual locking 40° vertical tilt and 364° rotation of light module.

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 Battery

Emergency output—7W for 90 minutes. Maximum mounting height: 19ft. For applications requiring higher than 2000L consult factory for maximum mounting height. Above ceiling access only.

Labels

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

Lumen Maintenance

Reported: L70 at >55,000 hours Calculated: L70 at 204,000 hours
Reported: L90 at >55,000 hours Calculated: 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.

TRIM SPECIFICATIONS

Aesthetics

Parabolic reflector cone ensures glare free optics. Reflector is die-cast aluminum. Torsion springs pull trim tight to the ceiling with no visible fasteners within the trim. Trims are self-flanged. Non-painted trim matches reflector finish. White or Black painted flange may also be specified. Spot distribution is offered with Solite lens and No lens options. No lens options with greater than 15° vertical tilt, feature a shroud to conceal internal components and maintain a premium aesthetic while providing a narrow spot distribution.

Optics

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

Lumen range	Distribution Beam Spread								
	Spacing Criteria								
	SP	SP with Solite	NFL	FL1	FL2	WFL	VWFL	SWFL	LS
1000 - 2000	12.4° 0.22	17.8° 0.28	24.6° 0.40	31.8° 0.52	45.7° 0.74	59.5° 0.88	71.7° 1.00	86.4° 1.26	18.5° x 51.2° 0.34 x 0.80
2500 - 4000	-	-	21.2° 0.40	34.8° 0.58	43.0° 0.70	62.0° 0.90	72.5° 1.02	89.4° 1.24	25.3° x 54.5° 0.46 x 0.84

PERFORMANCE CHART

See Page 3

Focal Point LLC reserves the right to change specifications for product improvement without notification.

HOUSING ORDERING

Housing Series		FLCS44	FLCS44
ID+ 4.5" Square Housing			
Trim Type			
Square Overlap		SO	
Square Trimless		ST	
Lumen Output			
1000 Lumens		1000L	
1500 Lumens		1500L	
2000 Lumens		2000L	
2500 Lumens		2500L	
3000 Lumens		3000L	
3500 Lumens		3500L	
4000 Lumens		4000L	
(Not available with 97+ CRI)			
Color Temperature			
(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. CRI 97: T & TW housing 3500L max, IC housing 2000L.)			
2700K, 80/90/97+ CRI		_27K	
3000K, 80/90/97+ CRI		_30K	
3500K, 80/90/97+ CRI		_35K	
4000K, 80/90/97+ CRI		_40K	
Warm Dim: 2700-1800K, 90+ CRI		92718W	
Warm Dim: 3000-1800K, 90+ CRI*		93018W	
*(1000L, 1500L, 2500L only. IC, UNV or LV available with 1000L & 1500L only.)			
Distribution			
Spot (2000L max.)		SP	
Narrow Flood		NFL	
Flood 1		FL1	
Flood 2		FL2	
Wide Flood		WFL	
Very Wide Flood		VWFL	
Super Wide Flood		SWFL	
Linear Spread Lens		LS	
Voltage			
UNV 120/277 Volt		UNV	
(L11 & LD1 2500L max., LZ1, DZ1, D11 & LFP 2000L max., LH1 1500L max.)			
120 Volt		120	
277 Volt		277	
Low Voltage		LV	
(2500L max.)			
Driver			
0-10V - 0% Dimming		LZ1	
0-10V - 1% Dimming		L11	
0-10V - 10% Dimming		LD1	
Forward Phase (120V only)		LFP	
Low Voltage, PoE Compatible		LVN	
(No driver, LV Voltage only. Not available with EM.)			
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming		LH1	
DALI - 0% Dimming		DZ1	
DALI - 1% Dimming		D11	
Housing Type			
IC rated		IC	
(L11, LD1 & LVN 2500L max. LZ1, DZ1, D11 & LFP 2000L max. LH1 1500L max.)			
Non-IC		T	
(LZ1, LH1, DZ1, D11 3000L max. LFP 3500L max.)			
Non-IC Wood		TW	
(ST only, requires Trimless Wood Kit.)			
Factory Options			
Bar Hangers		BH	
Chicago Plenum		CP	
Emergency Battery with Remote Test Switch		EMR	
(T housing only. Not available with Warm Dim. Above ceiling access only.)			
Outdoor Rated		OD	
(LD1 driver only. IC housing 2500L max. Solite lens optic only. See dimming Performance Chart on page 3.)			

TRIM ORDERING

Aperture			
4.5" Square Aperture		LCS44	
Trim Type			
Square Die-Cast Overlap		SDO	
Square Die-Cast Trimless		SDT	
Optic			
(SP distribution available with all Optic options, all other distributions SL only)			
Solite Lens		SL	
Spot Optic, no lens, for 0°-15° tilt		SP00	
Spot Optic, no lens, for 15°-30° tilt		SP30	
Spot Optic, no lens, for 25°-40° tilt		SP40	
Color			
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	
White Painted		WP	
ACCESSORIES			
Distribution Kit		FLCS44-	
(Order kits to change distribution in field. Add Distribution code from above. Example FLCS44-SP)			
Spot Optic Tilt Kit		KIT-	
(Add code for desired title degree - 15°-30° = SP30, 25°-40° = SP40, Both = SPB)		FLCS44-	
Trimless Wood Kit		FLCS44-	
(One kit suggested per 10 units)		WOOD-KIT	

4.5" SQUARE ADJUSTABLE DOWNLIGHT PERFORMANCE TABLE

Lumen Output	Delivered Lumens	System Watts	LPW
1000L	1073	11.5	93
 1000L	871	14.6	60
1500L	1553	16.8	93
 1500L	1571	23.5	67
2000L	2086	23.7	88
2500L	2421	27.2	89
 2500L	2381	37.2	64
3000L	2905	32.5	89
3500L	3345	38.1	88
4000L	3888	44.2	88

Based on SL optic, 3500K, 80CRI, Narrow Flood, Clear Diffuse. Warm Dim based on 3000 - 1800K, 90 CRI. Overlap and trimless offer identical performance. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%.

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE TABLE

Lumen Output	Minimum Dimming Level
1000L	13%
1500L	10%
2000L	10%
2500L	10%
3000L	10%
3500L	10%
4000L	10%

4.5" SQUARE DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI¹

Color Options	Lumen Output	Color Temperature & CRI	Multiplier
Standard White	All Outputs	2700K, 80+ CRI [27K]	0.92
		2700K, 90+ CRI [927K]	0.79
		2700K, 97+ CRI [927K]	0.67
		3000K, 80+ CRI [30K]	0.98
		3000K, 90+ CRI [930K]	0.83
		3000K, 97+ CRI [9730K]	0.72
		3500K, 80+ CRI [35K]	1.00
		3500K, 90+ CRI [935K]	0.82
		3500K, 97+ CRI [9735K]	0.73
		4000K, 80+ CRI [40K]	1.01
 Warm Dim	1000L	2700-1800K, 90+ CRI [92718W]	0.77
		3000-1800K, 90+ CRI [93018W]	0.87
	1500L	2700-1800K, 90+ CRI [92718W]	0.82
		3000-1800K, 90+ CRI [93018W]	1.05
	2500L	2700-1800K, 90+ CRI [92718W]	0.78
		3000-1800K, 90+ CRI [93018W]	0.95

Distribution²

		Square Overlap Multiplier		Square Trimless Multiplier	
Trim	Distribution	1000L - 2000L	2500L - 4000L	1000L - 2000L	2500L - 4000L
Square Overlap	Spot [SP]	1.11	—	1.11	—
	Spot with Solite lens [SP]	1.09	—	1.09	—
	Narrow Flood [NFL]	1.04	0.97	1.04	0.97
	Flood 1 [FL1]	1.01	0.93	1.01	0.93
	Flood 2 [FL2]	1.03	0.98	1.03	0.98
	Wide Flood [WFL]	0.98	0.91	0.98	0.91
	Very Wide Flood [VWFL]	0.98	0.88	0.98	0.88
	Super Wide Flood [SWFL]	0.94	0.85	0.94	0.85
	Linear Spread [LS]	1.00	0.93	1.00	0.93

4.5" SQUARE ADJUSTABLE DOWNLIGHT CBCP CHART

Lumen Output	Distribution	Beamspread	Center Beam Candlepower (CBCP)
2000L	SP	12.4°	27047
	SP with Solite lens	17.8°	16934
	NFL	24.6°	8802
	FL1	31.8°	5039
	FL2	45.7°	2823
	WFL	59.5°	1805
	VWFL	71.7°	1386
	SWFL	86.4°	1018
	LS	18.5° x 51.2°	7397

Color³

Trim	Color	Multiplier
All	Clear Diffuse [CD]	1.00
	Warm Diffuse [WD]	0.98
	White [WH]	1.02
	Black [BK]	0.95

How To Use Lumen Multipliers

Formula:
(Lumen Output Value) x (Color Temperature & CRI¹) x (Distribution²) x (Color³)

Example:
FLCS44-SO-2000L-935K-FL1-SDO-WH
(2000) x (0.82) x (1.01) x (1.02) ≈ 1690lm (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.