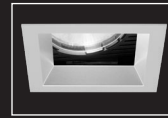
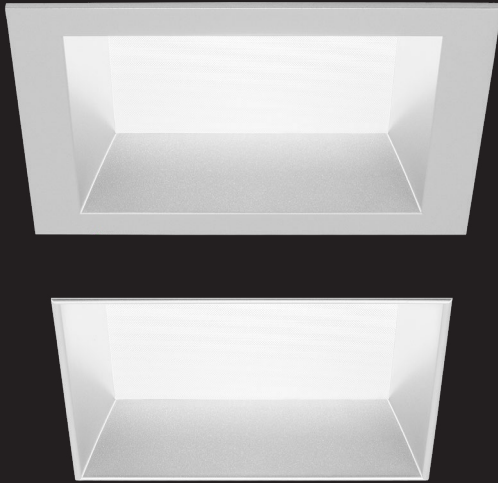


ID+ 4.5" x 4.5"

LED ADJUSTABLE DOWNLIGHT



0°-15° tilt Spot detail



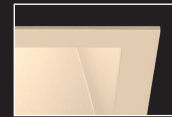
15°-30° tilt Spot detail



25°-40° tilt Spot detail



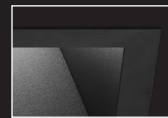
Clear Diffuse



Warm Diffuse



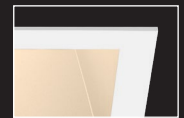
White



Black



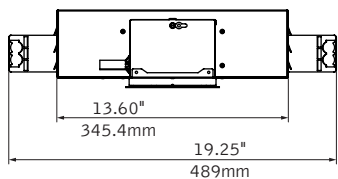
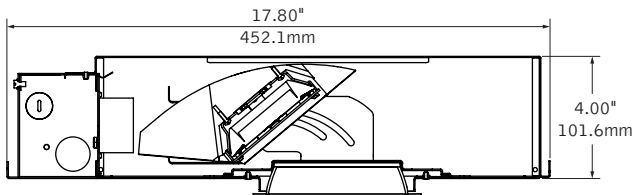
Clear Diffuse & White flange



Warm Diffuse & White flange

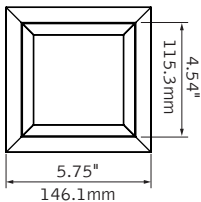
DIMENSIONAL DATA

T housing* (Solite lens optic shown)

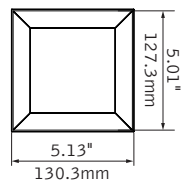


*IC/CP housings - 5.00" height.

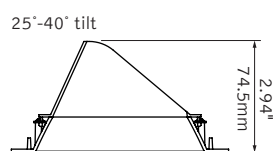
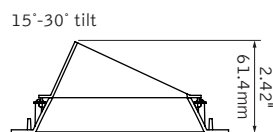
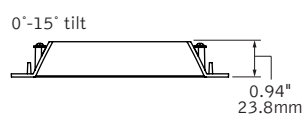
Overlap



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.

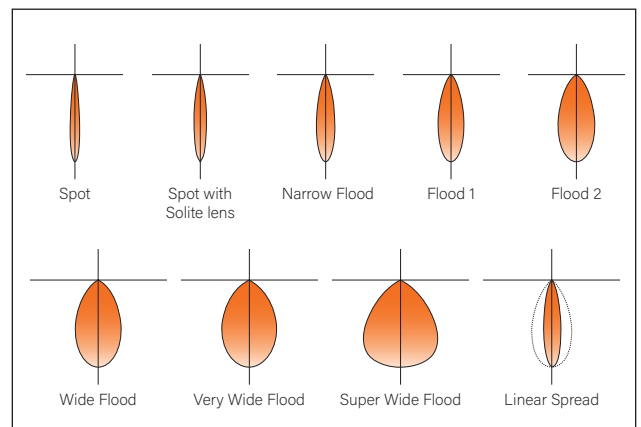
Overlap and trimless options.

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



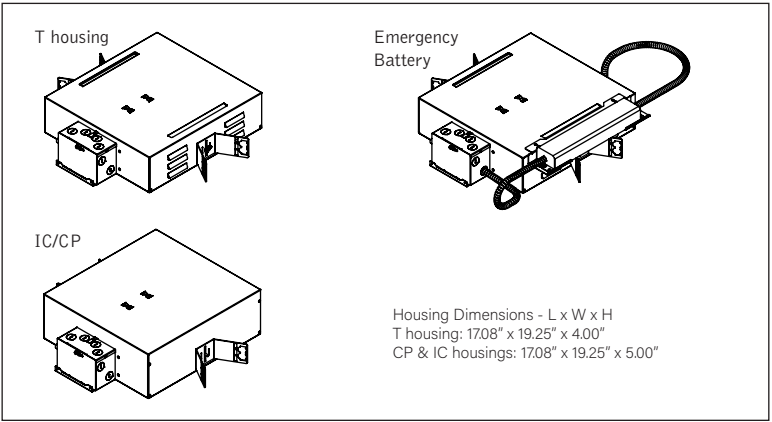
Distribution curves shown based on 2000L, Square Overlap, Clear Diffuses. Photometric performance is measured in accordance with IESNA LM-79. Visit focalpointlights.com for complete photometric data.



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"-1.85" 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 40°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
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			LCS44
4.5" Square Aperture			
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	2415	27.2	89
	2500L	2381	37.2	64
	3000L	2897	32.5	89
	3500L	3337	38.1	88
	4000L	3878	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 [9727K]	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°	30912
	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°	5499

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.