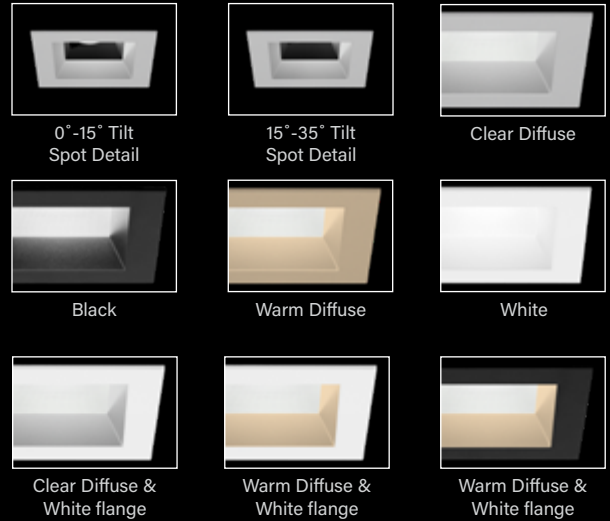
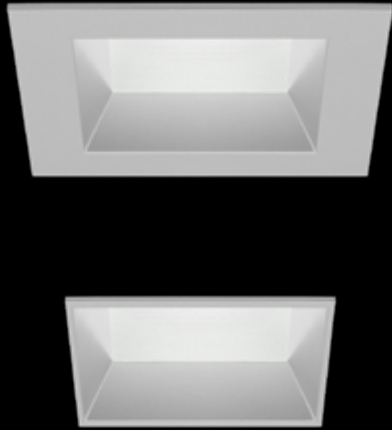
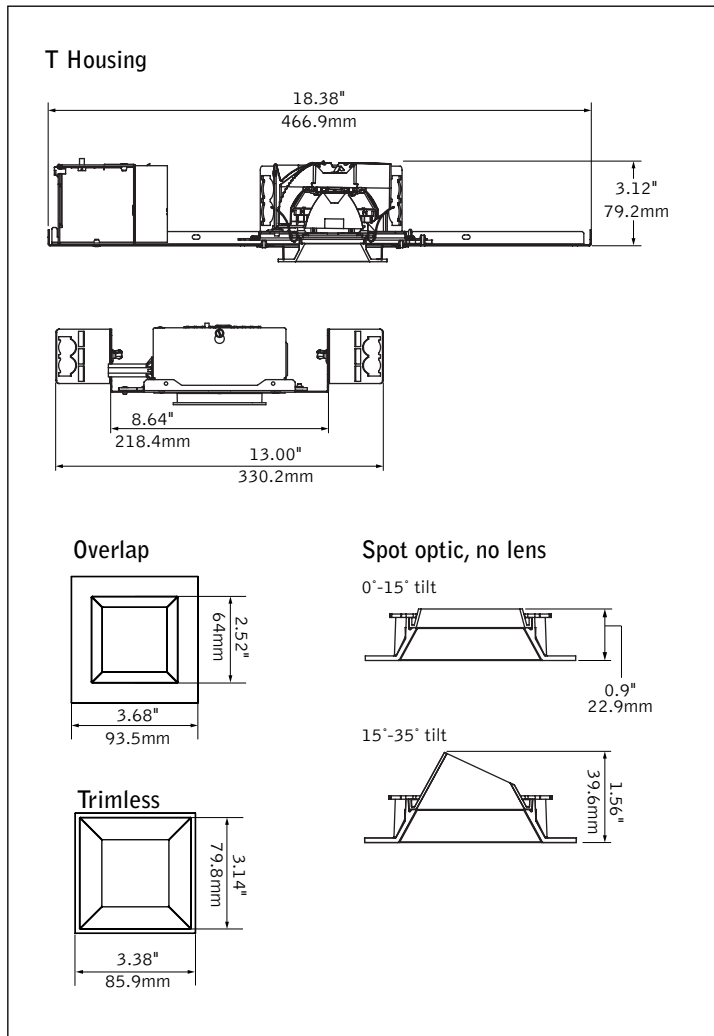


ID+ 2.5" x 2.5"

LED ADJUSTABLE DOWNLIGHT



DIMENSIONAL DATA



FEATURES

19° beam is ideal for art and object accenting, additional beamreads up to 75° complement any application.

Allows for aiming with locking 35° vertical tilt and 362° rotation of light module.

Overlap and trimless options.

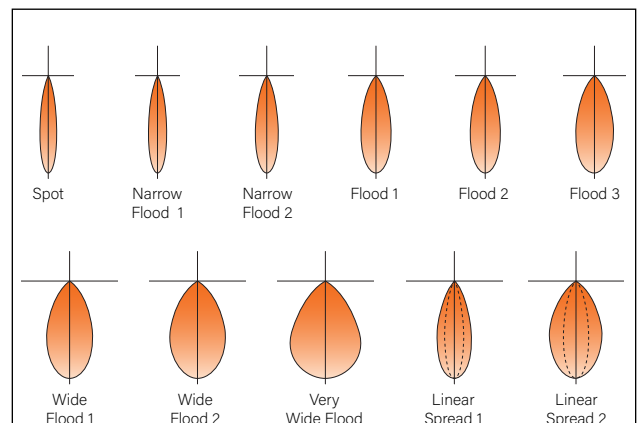
Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

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

Outdoor rating permits use in outdoor covered ceiling applications.

Configurations available for Title 24 JA8 High Efficacy Lighting compliance.

DISTRIBUTIONS



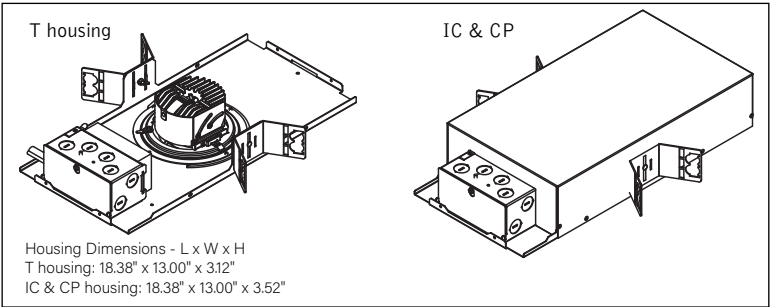
Distribution curves shown based on Square Overlap, Clear Diffuses.
Photometric performance is measured in accordance with IESNA LM-79.
Visit focalpointlights.com for complete photometric data.



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 6lbs.

Adjustment

Manual locking 35° vertical tilt and 362° 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: Clear Diffuse & White: 17.71ft. Black & Warm Diffuse: 17.15ft. 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. Fixture with Outdoor rated option must be installed in a covered ceiling and is warrantied for operation in ambient environments between -40°C to +25°C.

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 offered with No lens option for a crisp punch of light. No lens options feature a shroud to conceal internal components and maintain a premium aesthetic while providing a narrow spot distribution.

Optics

TRIM TYPE	Distribution Beam Spread										
	Spacing Criteria										
	SP	NFL1	NFL2	FL1	FL2	FL3	WFL1	WFL2	VWFL	LS1	LS2
SO	19°	21°	26°	31°	36°	46°	55°	65°	77°	23° x 40°	29° x 67°
	0.32	0.34	0.44	0.52	0.60	0.72	0.84	0.94	1.12	0.40 x 0.66	0.48 x 0.96
ST	19°	20°	26°	32°	36°	46°	56°	70°	83°	23° x 35°	28° x 69°
	0.32	0.36	0.44	0.52	0.58	0.72	0.84	0.96	1.20	0.40 x 0.56	0.48 x 0.94

PERFORMANCE CHART

See Page 4

HOUSING ORDERING

Housing Series		FLCS22	FLCS22
ID+ 2.5"	Square Housing		
Trim Type		SO	
Square Overlap		ST	
Square Trimless			
Lumen Output			
500 Lumens (LT1, LD1 & LVN only.)		500L	
700 Lumens (Not available with LFP, LTE, LH1.)		700L	
900 Lumens (Not available with LFP, LTE, LH1.)		900L	
1100 Lumens		1100L	
1300 Lumens		1300L	
1500 Lumens		1500L	
(Not available with LFP, LTE or LH1 with IC housing or CP option.)			
Color Temperature			
(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI.)			
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	
*(700L Only. EMR not available. UNV & LV not available.)			
Distribution			
Spot		SP	
Narrow Flood 1		NFL1	
Narrow Flood 2		NFL2	
Flood 1		FL1	
Flood 2		FL2	
Flood 3		FL3	
Wide Flood 1		WFL1	
Wide Flood 2		WFL2	
Very Wide Flood		VWFL	
Linear Spread Lens 1		LS1	
Linear Spread Lens 2		LS2	
Voltage			
UNV 120/277 Volt** UNV		UNV	
120 Volt		120	
277 Volt		277	
Low Voltage** LV		LV	
**(T & TW housings: 900L 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	
Lutron Hi-Lume - Forward Phase (120V) - 1% Dimming		LTE	
DALI - 0% Dimming		DZ1	
DALI - 1% Dimming		D11	
Housing Type			
IC rated		IC	
(Not Available with LFP, LTE or LH1 with 1500L.)			
Non-IC		T	
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 & T housing only. Not available with CP or EMR. See dimming performance table.)			
Title 24 / JA8 Compliant		JA8	
(Consult JA8 Reference Guide for available options.)			


TRIM ORDERING

Aperture		LCS22	LCS22
2.5" Square Aperture			
Trim Type			
Square Die-Cast Overlap		SDO	
Square Die-Cast Trimless		SDT	
Lumen Output			
Color Temperature			
Distribution			
Optic			
Solite Lens		SL	
(Not available with Spot distribution)			
Spot Optic, no lens, 0°-15° tilt (Spot distribution only)		SP00	
Spot Optic, no lens, 15°-35° tilt (Spot distribution only)		SP35	
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	
Factory Options			
Title 24 / JA8 Compliant (Trim & housing must match.)		JA8	

ACCESSORIES ORDERING

See Page 3

2.5" SQUARE ADJUSTABLE DOWNLIGHT PERFORMANCE TABLE

Lumen Output	Delivered Lumens	System Watts	LPW
500L	500	5.7	87
700L	700	7.7	90
 700L	698	17	41
900L	900	9.9	91
1100L	1100	13.3	83
1300L	1300	15.6	83
1500L	1492	18.3	85


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
500L	29%
700L	21%
900L	16%
1100L	13%
1300L	11%
1500L	10%

2.5" 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
		4000K, 90+ CRI [940K]	0.84
		4000K, 97+ CRI [9740K]	0.76
 Warm Dim	700L	2700-1800K, 90+ CRI [92718W]	1.21
		3000-1800K, 90+ CRI [93018W]	1.00

Distribution²

Trim	Distribution	Multiplier
Overlap & Trimless	Spot [SP]	1.20
	Narrow Flood 1 [NFL1]	1.16
	Narrow Flood 2 [NFL2]	1.03
	Flood 1 [FL1]	1.04
	Flood 2 [FL2]	1.01
	Flood 3 [FL3]	0.93
	Wide Flood 1 [WFL1]	0.95
	Wide Flood 2 [WFL2]	0.93
	Very Wide Flood [VWFL]	0.92
	Linear Spread 1 [LS1]	0.94
	Linear Spread 2 [LS2]	0.88

2.5" SQUARE ADJUSTABLE DOWNLIGHT CBCP CHART

Lumen Output	Distribution	Beamspread	Center Beam Candlepower (CBCP)
1500L	SP	19°	10687
	NFL1	21°	7686
	NFL2	26°	5277
	FL1	31°	3994
	FL2	36°	3288
	FL3	46°	2138
	WFL1	55°	1581
	WFL2	65°	1167
	VWFL	77°	898
	LS1	23° x 40°	4146
	LS2	29° x 67°	2000

Based on Square Overlap trim (SO).

Color³

Trim	Color	Multiplier
All	Clear Diffuse [CD]	1.00
	Warm Diffuse [WD]	1.01
	White [WH]	1.02
	Black [BK]	0.99

How To Use Lumen Multipliers

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

Example:
FLCS22-SO-1500L-935K-FL1-SDO-WH
(1500) x (0.82) x (1.04) x (1.02) ≈ 1305lm (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.