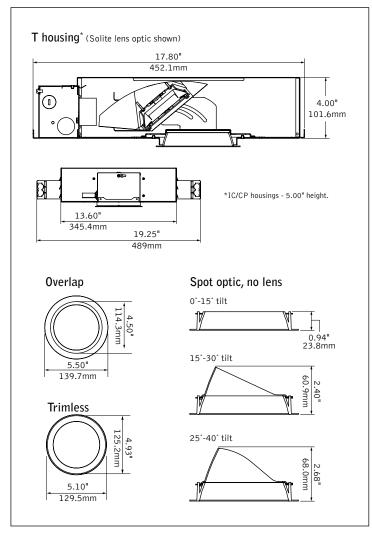


DIMENSIONAL DATA



FEATURES

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

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

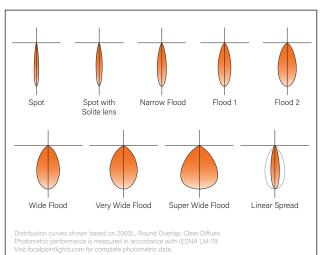
Overlap and trimless options.

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.

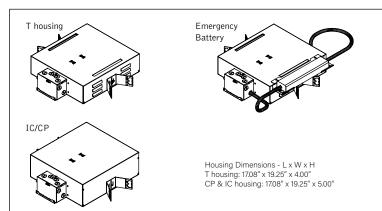
Outdoor rating permits use in outdoor covered ceiling applications.

Available with The Naturals, a series of finishes that exude biophilic beauty.



DISTRIBUTIONS

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 $\frac{1}{2}$ " 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) $\frac{1}{2}$ " 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. Trim is inherently air tight with Solite lens. 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. The Naturals: 100% low VOC vinyl.

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 -	12.6°	_17.7°	24.0°	33.6°	48.0°	60.4°	72.2°	86.4°	22.8° x 51.8°
2000	0.22	0.32	0.42	0.56	0.76	0.88	1.00	1.24	0.42 x 0.80
2500 - 4000	-	-	24.9° 0.42	<u>37.1°</u> 0.60	<u>44.1°</u> 0.70	56.7° 0.86	74.2° 1.04	87.4° 1.26	$\frac{28.6^{\circ} \times 53.9^{\circ}}{0.52 \times 0.84}$

PERFORMANCE CHART - See page 3

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

HOUSING ORDERING Housing Series		FLCS4
ID+ 4.5" Round Housing Trim Type	FLCS4	
Round Overlap Round Trimless	RO RT	
Lumen Output 1000 Lumens 1500 Lumens	1000L 1500L	
2000 Lumens 2500 Lumens	2000L 2500L	
3000 Lumens 3500 Lumens 4000 Lumens	3000L 3500L 4000L	
(Not available with 97+ CRI)		
Color Temperature dd 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. RI 97: T & TW housing 3500L max, IC housing 2000L.) 2700K, 80/90/97+ CRI	27K	
3000K, 80/90/97+ CRI 3500K, 80/90/97+ CRI	_30K _35K	
4000K, 80/90/97+ CRI Warm Dim: 2700-1800K, 90+ CRI*	_40K 92718W	
Warm Dim: 3000-1800K, 90+ CRI* *(1000L, 1500L, 2500L only. IC, UNV or LV available with 1000L & 1500L only.)	93018W	
Distribution Spot (2000L max.)	SP	
Narrow Flood Flood 1	NFL FL1	
Flood 2 Wide Flood	FL2 WFL	
Very Wide Flood Super Wide Flood	VWFL SWFL	
Linear Spread Lens	LS	
UNV 120/277 Volt (L11 & LD1 2500L max., LZ1, DZ1, D11, LFP 2000L max., LH1 1500L max.)	UNV	
120 Volt 277 Volt	120 277	
Low Voltage (2500L max.)	LV	
Driver 0-10V - 0% Dimming	LZ1	
0-10V - 1% Dimming 0-10V - 10% Dimming	L11 LD1	
Forward Phase (120V only) Low Voltage, PoE Compatible	LFP LVN	
(No driver, LV Voltage only. Not available with EM.) ii-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
DALI - 0% Dimming DALI - 1% Dimming	DZ1 D11	
Housing Type IC rated D1 & LVN 2500L max. LZ1, DZ1, D11 & LFP 2000L max.	IC	
LH1 1500L max.) Non-IC	т	
(LZ1, LH1, DZ1, D11 3000L max. LFP 3500L max.) Non-IC Wood	тw	
(RT only, requires Trimless Wood Kit.) Factory Options		
Bar Hangers Chicago Plenum	BH CP	
gency Battery with Remote Test Switch (T housing only. Not available with Warm Dim. Above ceiling access only.)	EMR	
Outdoor Rated only. IC housing 2500L max. Solite lens optic only. See	OD	
dimming Performance Chart on page 3.) TRIM ORDERING		
4.5" Round Aperture	LCS4	LCS4
Trim Type Round Die-Cast Overlap	RDO	
Round Die-Cast Trimless	RDT	
Optic (SP distribution available with all Optic options, all other distributions SL only)	SI	
Solite Lens Spot Optic, no lens, for 0°-15° tilt	SL SP00 SP30	
Spot Optic, no lens, for 15°-30° tilt Spot Optic, no lens, for 25°-40° tilt Color	SP40	
(See finishes page for The Naturals options) Clear Diffuse	CD	
Warm Diffuse Black	WD BK	
Optional Flange Finish	WH	
CD & WD finish only.) (For matching finishes leave blank) Black Painted	BP	
White Painted	WP	
ACCESSORIES Distribution Kit	FLCS4	
(Order kits to change distribution in field. Add Distribution code from above. Example FLCS4-SP)		
Spot Optic Title Kit	KIT-	

(A

Lutron H

(L11, I

Emer

(LD1 driver

(Overlap

15'-30' = SP30, 25'-40' = SP40, Both = SPB) FLCS4-_____ Trimless Wood Kit FLCS4-(One kit suggested per 10 units) WOOD-KIT

4.5" ROUND ADJUSTABLE DOWNLIGHT PERFORMANCE TABLE

Lur	nen Output	Delivered Lumens	System Watts	LPW
	1000L	1042	11.5	91
WD	1000L	847	14.6	58
	1500L	1508	16.8	90
WD	1500L	1519	23.5	65
	2000L	2025	23.7	85
	2500L	2561	27.2	94
WD	2500L	2317	37.1	62
	3000L	3073	32.5	95
	3500L	3539	38.1	93
	4000L	4113	44.3	93

Based on SL optic, 3500K, 80CRI, Narrow Flood, Clear Diffuse. Warm Dim based on 3000 - 1800K, 90 CRI. Overlap and trimess 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" ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI¹

Color Options	Lumen Output	Color Temperature & CRI	Multiplier
		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
Standard White	All Outputs	3000K, 97+ CRI [9730K]	0.72
Stanuaru winite		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
	1000L	2700-1800K, 90+ CRI [92718W]	0.75
WD	IUUUL	3000-1800K, 90+ CRI [93018W]	0.85
Warm Dim	1500L	2700-1800K, 90+ CRI [92718W]	0.79
warm DIM	IDUUL	3000-1800K, 90+ CRI [93018W]	1.01
	25001	2700-1800K, 90+ CRI [92718W]	0.76
	2500L	3000-1800K, 90+ CRI [93018W]	0.93

Distribution ²		Round Overlap Multiplier		Round Trimless Multiplier		
Trim	Distribution	1000L - 2000L	2500L - 4000L	1000L - 2000L	2500L - 4000L	
	Spot [SP]	1.08	_	1.08	_	
	Spot with Solite lens [SP]	1.06	_	1.06	-	
	Narrow Flood [NFL]	1.01	1.03	1.01	1.03	
	Flood 1 [FL1]	0.98	0.93	0.98	0.93	
Round Overlap	Flood 2 [FL2]	1.00	0.98	1.00	tiplier 2500L - 4000L 1.03	
	Wide Flood [WFL]	Multilier Multi 1000L - 2000L 2500L - 4000L 1000L - 2000L 1.08 - 1.08 1.08 - 1.06 1.08 0.9 1.06 1.08 0.9 1.06 1.01 1.03 1.01 0.98 0.93 0.98 1.00 0.98 1.00 0.96 0.90 0.96 0.93 0.91 0.93	0.90			
	Very Wide Flood [VWFL]	0.93	0.91	0.93	0.91	
	Super Wide Flood [SWFL]	0.89	0.88	0.89	0.88	
	Linear Spread [LS]	0.98	0.97	0.98	0.97	

4.5" ROUND ADJUSTABLE DOWNLIGHT CBCP CHART

Lumen Output	Distribution	Beamspread	Center Beam Candlepower (CBCP)
	SP	12.6°	28962
	SP with Solite lens	17.7°	12854
	NFL	24.0°	8035
	FL1	33.6°	4276
2000L	FL2	48.0°	2518
	WFL	60.4°	1719
	VWFL	72.2°	1332
	SWFL	86.4°	985
	LS	22.8° x 51.8°	4327

 $\mathbf{Color}^{\scriptscriptstyle 3}$

Trim	Color	Multiplier
All	Clear Diffuse [CD]	1.00
	Warm Diffuse [WD]	0.98
	White [WH]	1.01
	Black [BK]	0.93

How To Use Lumen Multipliers

Formula:

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

FLCS4-RO-2000L-935K-FL1-LCS4-RDO-WH (2000) × (0.82) × (.98) × (1.01) ≈ 1623Im (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)

