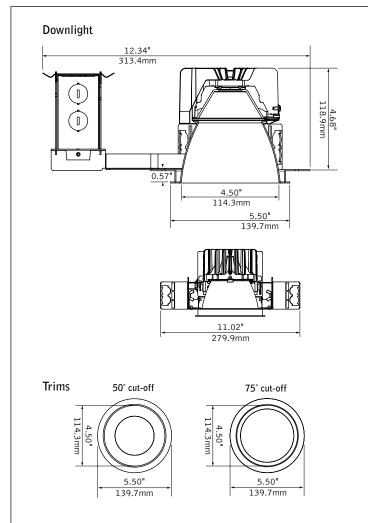


DIMENSIONAL DATA



FEATURES

Field adjustability of ceiling thickness from 0.5" to 3.0".

50° or 75° cutoff to light source and its image.

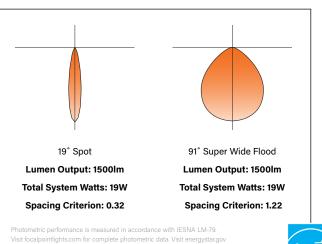
Right Light: Standard delivered lumen outputs 1000, 1500, 2000, 2500, and 3000.

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.

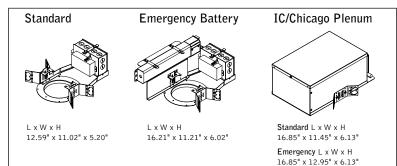
Compatible with common pre-engineered grid ceiling systems requiring luminaires fitting into a 6" slot.

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



PERFORMANCE

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. 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. T-rated: UL & cUL Listed for (6) #14 AWG (3 in, 3 out) 90°C conductors and feed through-branch wiring. IC/CP housing: UL & cUL Listed for (8) #12 AWG (4 in, 4 out) 90°C conductors and feed through-branch wiring for IC/CP housing. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 3.0" thickness. For thicker ceiling consult factory. Order TZB option for TechZone compatible housing brackets. T-rated housing will not exceed 6lb, IC/CP housing will not exceed 12lb.

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

Emergency Battery Pack: Bodine BSL17C-C2. Emergency output -7W for 90 minutes. Maximum mounting height: 25.8ft. (Black reflector: 18.0ft.) Not wet location or outdoor rated.

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.

Warrantv

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, 80+ CRI or 90+ CRI. 3500K and 4000K with CRI>90 have a cyanosis observation index (COI) of 3.3 or less. Color accuracy within 2 SDCM. Aluminum heat sink provides appropriate thermal management.

Aesthetics

Parabolic reflector cone ensures glare free optics. Reflector is .050" spun 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. The Naturals: 100% low VOC vinyl available with DSS only.

Optics

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

Op- tic	Cut-Off	Lumen	Distribution Beam Spread Spacing Criteria						
tic	Degree	Output	SP	NFL	FL1	FL2	WFL	VWFL	SWFL
DN 50	50°	1000- 2500	19° .32	24° .42	34° .54	44° .68	59° .92	-	-
		3000	-	25° .42	35° .58	44° .70	60° .94	-	-
DSS		1000- 2500	-	-	-	-	-	73° 1.00	91° 1.22
	Z75	3000	-	-	-	-	-	68° .98	91° 1.22

PERFORMANCE CHART* - see page 3.

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

HOUSING ORDERING

FLC4D **Housing Series** ID+ 4.5" Round FI C4D Trim Type RO RO **Color Options** Standard White, Warm Dim WDM (1500 & 2000 lumens only. UNV & EM not Lumen Output 1000L 2500 Lumens 3000 Lumens (Not available with SP distribution or LFP.) Voltage UNV 120V/277V (IC housing only. Not available with LFP.) Low Voltage LV (IC housing: 2000L max, T housing: 1000L c **Control System & Dimming Level** 0-10V - 0% Dimming LZ1 Low Voltage, PoE compatible LVN (No driver. Not available with EM. LV Voltage only.) Forward Phase (120V only.) LFP Lutron Hi-Lume EcoSystem (LDE1) -1% Dimming I H1 DALI - 0% Dimming DZ1 DALI - 1% Dimming D11 Housing Type IC (L11, LD1, LVN, LH1 2000L max. LZ1, D11, DZ1, LFP 1500L max LC4AT required for Airtight. Not available with EM.) Thermally Protected **Factory Options** BH Bar Hangers Chicago Plenum Emergency Batter ** EM (Must order LC4EM trim, Not wet location or outdoor rated.) Outdoor Rated (LD1 driver only. IC housing 1500L max. See dimming Performance Chart on page 3.) OD Bracket for 6" slot pre-engineered ceiling TZB **TRIM & LED MODULE** Aperture 4.5" Bound 4.5" Round Reflector - Airtight (IC housing required for Airtight rating) 4.5" Round Reflector - Emergency⁴ LC4AT IC4FM (Required for "EM" option. DN optic only. Not wet location or outdoor rated.) Trim Type Round Die-Cast Overlap RDO Lumen Output (Trim & Hous ng output must match) 1000 Lumens 1500 Lumens 2000 Lumens 2500 Lumens (Not available with SP distribution) **Color Temperature** 2700K, 80+ CRI or 90+ CRI 27K or 927K 3000K, 80+ CRI or 90+ CRI 30K or 930K 3500K, 80+ CRI or 90+ CRI 4000K, 80+ CRI or 90+ CRI Warm Dim: 2700-1800K, 90+ CRI 35K or 935K or 92718W (1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI 93018W (1500 & 2000 lumens only) Optic Downlight with 50° Super Short Cone with Solite Lens 75° cut-off DSS (Die-cast trim, BDO, with VWEL or SWEL Distribution SP Spot Narrow Flood NFL FL1 Flood 1 Wide Flood Very Wide Flood (DSS Optic only) VWFI Super Wide Flood (DSS Optic only) SWFL Color (See finishes page for The Naturals options available on DSS optic only.) WD Warm Diffuse Black (Black Painted flange only) BK WH White (Wh Flange Finish Non-Painted, matches reflector color Black Painted BP



5/10 DAY** Options in orange qualify for the Quickship program. All options 5-day up to 200 pieces except Emergency Battery and 4.5" Round Reflector Emergency 10-day only.

ROUND DOWNLIGHT PERFORMANCE CHART

Lur	nen Output	Delivered Lumens	System Watts	LPW
	1000L	1045	11	92
	1500L	1571	19	82
wD	1500L	1433	25	57
	2000L	2087	26	82
WD	2000L	2014	37	55
	2500L	2523	32	79
	3000L	3050	36	84

Based on downlight (DN) optic, 3500K, 80CRI, Wide Flood, Clear Diffuse. WDM base on 3000 - 1800K, 90 CRI. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE CHART

Lumen Output	Minimum Dimming Level
1000L	25%
1500L	16%
2000L	12%
2500L	10%
3000L	10%

Trim Type	Optic	Lumen Output	Color Temperature	Multiplier
			2700K, 80+ CRI [27K]	0.93
			2700K, 90+ CRI [927K]	0.80
			3000K, 80+ CRI [30K]	0.97
	ALL	ALL	3000K, 90+ CRI [930K]	0.85
		ALL	3500K, 80+ CRI [35K]	1.00
ALL			3500K, 90+ CRI [935K]	0.83
ALL			4000K, 80+ CRI [40K]	1.01
			4000K, 90+ CRI [940K]	0.86
		1500	2700-1800K, 90+ CRI [92718W]	0.94
		2000	2700-1800K, 90+ Chi [92718W]	1.01
		1500	- 3000-1800K, 90+ CRI [93018W]	0.96
		2000	3000-10001, 30+ CHI [33018W]	1.01

Distribution

Trim Type	Optic	Distribution	Multiplier	Multiplier		
			1000 - 2500L	3000L		
		Spot [SP]	1.07	-		
		Narrow Flood [NFL]	1.03	1.05		
Round Trimless [RT]	Round Downlight with 50° cut-off [DN]	Flood 1 [FL1]	0.99	1.01		
		Flood 2 [FL2]	0.99	0.98		
		Wide Flood [WFL]	1.02	1.03		
		Spot [SP]	1.07	-		
	Round Downlight with 50° cut-off [DNT]	Narrow Flood [NFL]	1.12	1.11		
Round Overlap [RO]		Flood 1 [FL1]	1.07	1.01		
		Flood 2 [FL2]	1.00	1.02		
		Wide Flood [WFL]	1.01	1.02		
Downed Die Cost Trimlage [DDT]	Super Short Cone with Solite Lens	Very Wide Flood [VWFL]	0.83	0.84		
Round Die-Cast Trimless [RDT]	with 75° cut-off [DSS]	Super Wide Flood [SWFL]	0.80	0.81		
Downd Dia Coast Overlag [DDO]	Super Short Cone with Solite Lens	Very Wide Flood [VWFL]	0.80	0.83		
Round Die-Cast Overlap [RDO]	with 75° cut-off [DSS]	Super Wide Flood [SWFL]	0.82	0.82		

Color

Trim Type	Optic	Color	Multiplier
		Clear Diffuse [CD]	1.00
Round Trimless [RT] and	Round Downlight with 50° cut-off [DN]	Warm Diffuse [WD]	0.86
Round Overlap [RO]	Round Downight with 50 Cut-on [DN]	White [WH]	1.00
		Black [BK]	0.50
		Clear Diffuse [CD]	1.00
Round Die-Cast Trimless [RDT] and	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Warm Diffuse [WD]	0.95
Round Die-Cast Overlap [RDO]		White [WH]	1.10
		Black [BK]	0.85

Multiplier tables are provided to aid with estimation of lumen levels across options. Apply multipliers against ordered Lumen Output to estimate Delivered Lumens. Refer to IES files for most accurate photometric information.

How To Use Lumen Multipliers

Formula: (Lumen Output Value) x (Color Temperature & CRI) x (Distribution) x (Color)

Example: LC4-RO-2000L-935K-DN-NFL-WH (2000) x (0.83) x (1.12) x (1.00) ≈ 1859 lm (estimated delivered lumens)

Finishes



STANDARD FINISHES

WHITE WH	BLACK	BK	CLEAR DIFFUSE	CD	WARM DIFFUSE	WD

THE NATURALS (25% SCALE) - Available with Super Short Cone (DSS) only







CHT WALNUT

WLT WOVEN LINEN

WLN

LIGHT OAK

LOK GRAY ELM