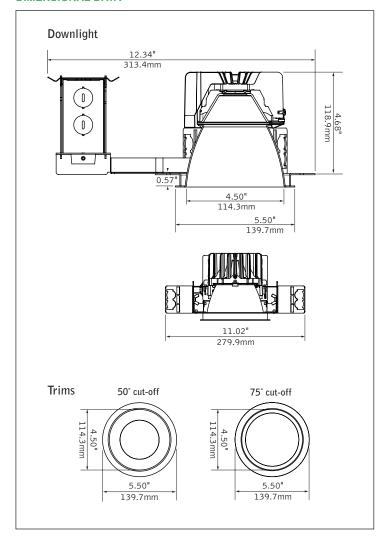






DIMENSIONAL DATA



FEATURES

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

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

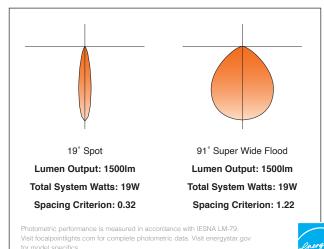
Right Light: Standard delivered lumen outputs 1000, 1500, 2000, 2500, and 3000.

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.

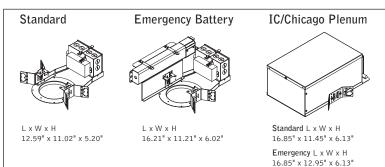
PERFORMANCE



for model specifics.



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.

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 -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.

Optics

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

Optic Cut-Off Lumen Distribution Beam Spread S					I Spacin	Spacing Criteria			
Optio	Degree	Output	SP	NFL	FL1	FL2	WFL	VWFL	SWFL
DN	/\50°	1000- 2500	19° .32	24° .42	34° .54	44° .68	59° .92	-	-
DIN	/	3000	-	25° .42	35° .58	44° .70	60° .94	-	-
DSS	∕ 75°	1000- 2500	-	-	-	-	-	73° 1.00	91° 1.22
D22	/5	3000	-	-	-	-	-	68° .98	91° 1.22

(1500 & 2000 lumens only. UNV & EM not available.) Lumen Output		
1000 Lumens	1000L	
1500 Lumens	1500L	
2000 Lumens	2000L	
2500 Lumens 3000 Lumens	2500L 3000L	
(Not available with SP distribution, LFP or LTE.)		
Voltage UNV 120V/277V	UNV	
(IC housing only. Not available with LFP or LTE.)		
120V 277V	120 277	
Low Voltage	LV	
(IC housing: 2000L max. T housing: 1000L only.) Control System & Dimming Level		
0-10V - 0% Dimming	LZ1	
0-10V - 1% Dimming	L11	
0-10V - 10% Dimming Low Voltage, PoE compatible	LD1 LVN	
(No driver. Not available with EM. LV Voltage only.)		
Forward Phase (120V only)	LFP	
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming	LH1	
Lutron 5-Series EcoSystem (LDE5) -		
5% Dimming	LU5	
Lutron Hi-Lume - Forward Phase - 1% Dimming (120V only)	LTE	
DALI - 0% Dimming	DZ1	
DALI - 1% Dimming	D11	
Housing Type	IC	
IC Rated / Airtight (L11, LD1, LVN, LH1, LU5 2000L max, LZ1, D11, DZ1, LFP	10	
1500L max. LTE 1000L only. LC4AT required for Airtight. Not available with EM.)		
Thermally Protected	Т	
Factory Options Bar Hangers	BH	
Chicago Plenum / National Plenum	CP	
Emergency Battery (Must order LC4EM trim. Not wet location or outdoor rated.)	EM	
Outdoor Rated	OD	
(LD1 driver only. IC housing 1500L max. See dimming Performance Chart on page 3.)		
Bracket for 6" slot pre-engineered ceiling	TZB	
TRIM & LED MODULE Aperture		
4.5" Round Reflector	LC4	
4.5" Round Reflector - Airtight	LC4AT	
(IC housing required for Airtight rating) 4.5" Round Reflector - Emergency	LC4EM	
(Required for "EM" option. DN optic only. Not wet location or outdoor rated.)		
Trim Type		
Round Die Cost Overlan	RO RDO	
Round Die-Cast Overlap (DSS, VWFL & SWFL options only)	NDO	
Lumen Output (Trim & Housing output must match)		
1000 Lumens	1000L	
1500 Lumens	1500L	
2000 Lumens 2500 Lumens	2000L 2500L	
3000 Lumens	3000L	
(Not available with SP distribution) Color Temperature		
2700K, 80+ CRI or 90+ CRI	27K or 927K	
3000K, 80+ CRI or 90+ CRI 3500K, 80+ CRI or 90+ CRI	30K or 930K 35K or 935K	
4000K, 80+ CRI or 90+ CRI	40K or 940K	
Warm Dim: 2700-1800K, 90+ CRI	92718W	
(1500 & 2000 lumens only) Warm Dim: 3000-1800K, 90+ CRI	93018W	
(1500 & 2000 lumens only)		
Optic	DN	
Downlight with 50° cut-off Super Short Cone with Solite Lens 75° cut-off	DSS	
(Die-cast trim, RDO, with VWFL or SWFL only) Distribution		
Spot	SP	
Narrow Flood	NFL	
Flood 1 Flood 2	FL1 FL2	
Wide Flood	WFL	
Very Wide Flood (DSS Optic only)	VWFL	
Super Wide Flood (DSS Optic only) Color	SWFL	
Clear Diffuse	CD	
Warm Diffuse Black (Black Painted flange only)	WD BK	
White (White Painted flange only)	WH	
Flange Finish	ND	
Non-Painted (Clear and warm diffuse only) Black Painted	NP BP	
White Painted	WP	
Options in orange qualify for	the Quickship progra	
QS 5 DAY* 200 pieces. Refer to Quicksh		

HOUSING ORDERING

Standard White,

(1500 & 2000 lumens only. UNV & EM not available.

Housing Series

Color Options

Trim Type

Warm Dim

FLC4D

WDM

FLC4D

RO

ROUND DOWNLIGHT PERFORMANCE CHART

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE CHART

Lun	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

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

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

Trim Type	Optic	Lumen Output	Color Temperature	Multiplier
	ALL	ALL	2700K, 80+ CRI [27K]	0.93
			2700K, 90+ CRI [927K]	0.80
			3000K, 80+ CRI [30K]	0.97
			3000K, 90+ CRI [930K]	0.85
			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+ CRI [927 18W]	1.01
		1500	2000 10001/ 00 . CDI [020101/4]	0.96
		2000	3000-1800K, 90+ CRI [93018W]	1.01

Distribution

Trim Type	Optic	Distribution	Multiplier	
			1000 - 2500L	3000L
		Spot [SP]	1.07	- 1.05 1.01
	Round Downlight with 50° cut-off [DN]	Narrow Flood [NFL]	1.03	1.05
Round Trimless [RT]		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
Round Die-Cast Trimless [RDT]	Super Short Cone with Solite Lens	Very Wide Flood [VWFL]	0.83	1.05 1.01 0.98 1.03 - 1.11 1.01 1.02 1.02 0.84 0.81
nound Die-Cast Milliess [nD1]	with 75° cut-off [DSS]	Super Wide Flood [SWFL]	0.80	0.81
Round Die-Cast Overlap [RDO]	Super Short Cone with Solite Lens	Very Wide Flood [VWFL]	0.80	0.83
Tround Die-Cast Overlap [nDO]	with 75° cut-off [DSS]	Super Wide Flood [SWFL]	0.82	0.82

Color

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

 $\textbf{Formula:} \ (\texttt{Lumen Output Value}) \ x \ (\texttt{Color Temperature \& CRI}) \ x \ (\texttt{Distribution}) \ x \ (\texttt{Color})$

Example: LC4-RO-2000L-935K-DN-NFL-WH

(2000) x (0.83) x (1.12) x (1.00) ≈ 1859 lm (estimated delivered lumens)