

ID+ 4.5"

LED DOWNLIGHT



Solite lens option



clear diffuse



warm diffuse



white



clear diffuse &
white flange



warm diffuse &
white flange

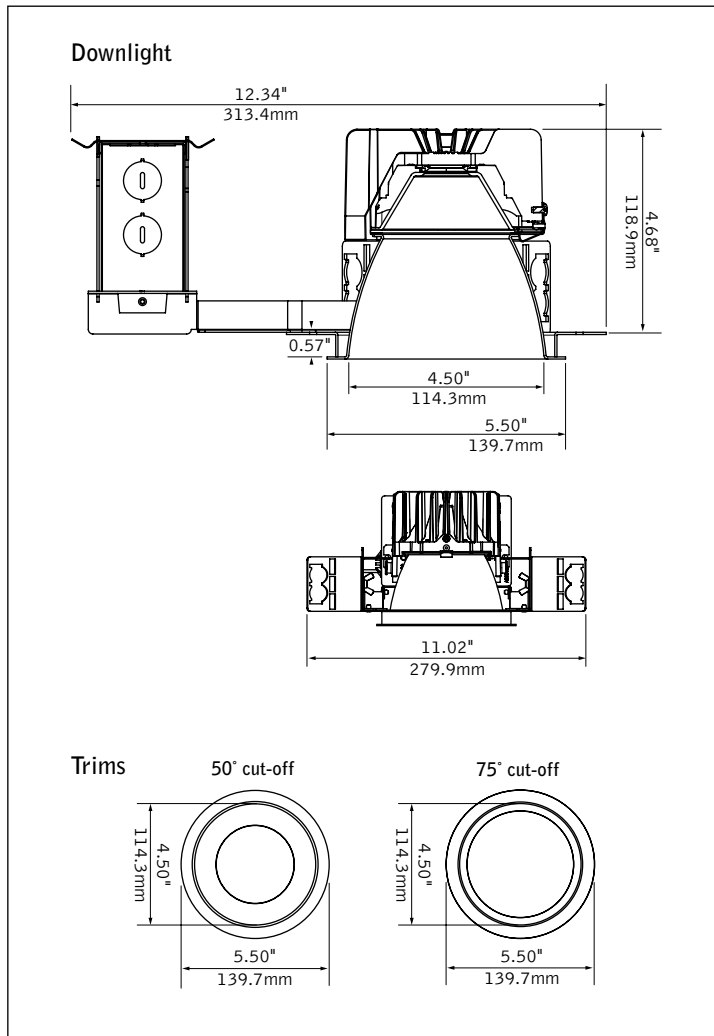


black



trimless companion

DIMENSIONAL DATA



FEATURES

Field adjustability of ceiling thickness from 0.5" to 3.0"

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

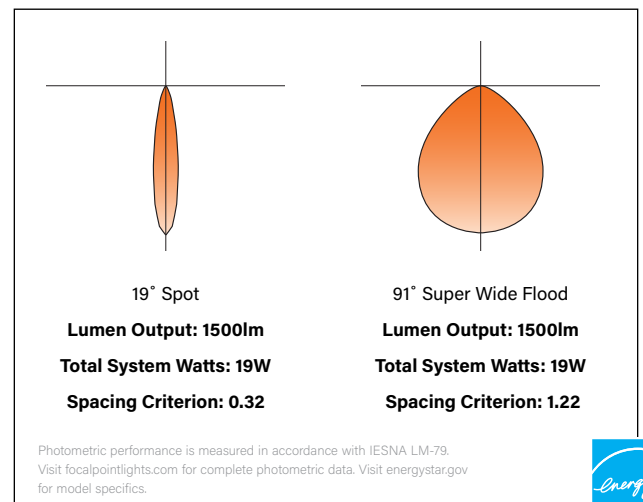
Right Light: Standard delivered lumen outputs 1000, 1500, 2000, 2500, and 3000.

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.

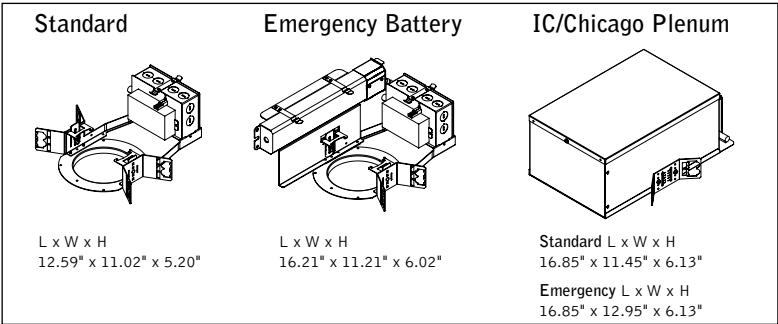
PERFORMANCE



fixture:

project:

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-flicking. 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.

Op-tic	Cut-Off Degree	Lumen Output	Distribution Beam Spread							Spacing Criteria
			SP	NFL	FL1	FL2	WFL	VWFL	SWFL	
DN		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	
		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

Housing Series

ID+ 4.5" Round Downlight

Trim Type

Round Overlap

Color Options

Standard White, 80 & 90 CRI

Warm Dim

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

Lumen Output

1000 Lumens

1500 Lumens

2000 Lumens

2500 Lumens

3000 Lumens

(Not available with SP distribution, LFP or LTE.)

Voltage

UNV 120V/277V

(IC housing only. Not available with LFP or LTE.)

120V

277V

Low Voltage

(IC housing; 2000L max. T housing; 1000L only)

Control System & Dimming Level

0-10V - 0% Dimming

0-10V - 1% Dimming

0-10V - 10% Dimming

Low Voltage, PoE compatible

(No driver. Not available with EM. LV Voltage only)

Forward Phase (120V only)

Lutron Hi-Lume EcoSystem (LDE1) -

1% Dimming

Lutron Hi-Lume - Forward Phase -

1% Dimming (120V only)

DALI - 0% Dimming

DALI - 1% Dimming

Housing Type

IC Rated / Airtight

(L11, LD1, LVN, LH1 2000L max. LZ1, D11, DZ1, LFP 1500L max. LTE 1000L only. LC4AT required for Airtight. Not available with EM.)

Thermally Protected

Factory Options

Bar Hangers

Chicago Plenum / National Plenum

Emergency Battery

(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.)

Bracket for 6" slot pre-engineered ceiling

Trim & LED Module

Aperture

4.5" Round Reflector

4.5" Round Reflector - Airtight

(IC housing required for Airtight rating)

4.5" Round Reflector - Emergency

(Required for "EM" option. DN optic only. Not wet location or outdoor rated.)

Trim Type

Round

Round Die-Cast Overlap

(DSS, VWFL & SWFL options only)

Lumen Output

(Trim & Housing output must match)

1000 Lumens

1500 Lumens

2000 Lumens

2500 Lumens

3000 Lumens

(Not available with SP distribution)

Color Temperature

2700K, 80+ CRI or 90+ CRI

3000K, 80+ CRI or 90+ CRI

3500K, 80+ CRI or 90+ CRI

4000K, 80+ CRI or 90+ CRI

Warm Dim: 2700-1800K, 90+ CRI

(1500 & 2000 lumens only)

Warm Dim: 3000-1800K, 90+ CRI

(1500 & 2000 lumens only)

Optic

Downlight with 50° cut-off

Super Short Cone with Solite Lens 75° cut-off

(Die-cast trim, RDO, with VWFL or SWFL only)

Distribution

Spot

Narrow Flood

Flood 1

Flood 2

Wide Flood

Very Wide Flood (DSS Optic only)

Super Wide Flood (DSS Optic only)

Color

Clear Diffuse

Warm Diffuse

Black (Black Painted flange only)

White (White Painted flange only)

Flange Finish

Non-Painted, matches reflector color

(Clear and warm diffuse only)

Black Painted

White Painted

FLC4D

RO

SW

WDM

1000L

1500L

2000L

2500L

3000L

UNV

120

277

LV

LZ1

L11

LD1

LVN

LFP

LH1

LTE

DZ1

D11

IC

T

BH

CP

EM

OD

TZB

LC4

LC4AT

LC4EM

RO

RDO

1000L

1500L

2000L

2500L

3000L

27K or 927K

30K or 930K

35K or 935K

40K or 940K

92718W

93018W

DN

DSS

SP

NFL

FL1

FL2

WFL

VWFL

SWFL

CD

WD

BK

WH

NP



BP

WP

Options in orange qualify for the Quickship program. 5-day up to 200 pieces. Refer to Quickship Guide for complete details.

5 DAY*

ROUND DOWNLIGHT PERFORMANCE CHART

Lumen Output	Delivered Lumens	System Watts	LPW
1000L	1045	11	92
1500L	1571	19	82
 1500L	1433	25	57
2000L	2087	26	82
 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%

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE CHART

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

ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

Trim Type	Optic	Lumen Output	Color Temperature	Multiplier
ALL	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
			3500K, 90+ CRI [935K]	0.83
			4000K, 80+ CRI [40K]	1.01
			4000K, 90+ CRI [940K]	0.86
		1500	2700-1800K, 90+ CRI [92718W]	0.94
		2000		1.01
		1500	3000-1800K, 90+ CRI [93018W]	0.96
		2000		1.01

Distribution

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

Color

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