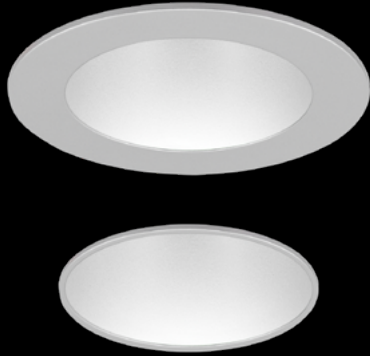


ID+ 2.5"

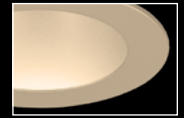
OVERLAP & TRIMLESS LED DOWNLIGHTS



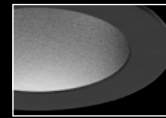
Solite lens



Clear diffuse



Warm diffuse



Black



White

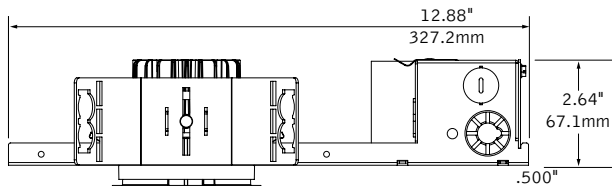


Optional painted flanges

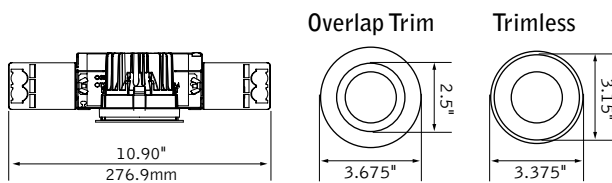


Wall Wash companion

DIMENSIONAL DATA



Field adjustability of ceiling thickness from 0.5" - 1.5"
Housing height with DALI, Lutron & LZ1 drivers is 3.0"



FEATURES

Less than 2.64" low profile housing available.

60° and 75° cut-off reflector options available.

25° to 90° beam spreads support accent lighting, task lighting and general illumination

Solite lens with die-cast trim delivers 70° or 90° beam spread options.

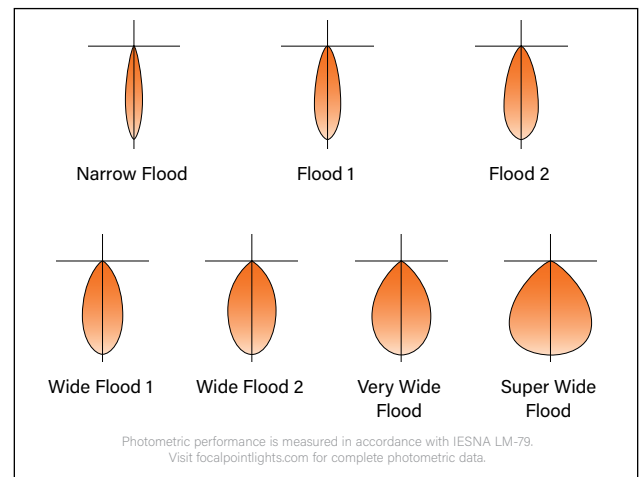
Warm Dim: Lighting that enhances spaces with a warm glow, reminiscent of incandescent or halogen light sources.

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

Configurations available for Title 24 JA8 High Efficacy Lighting compliance.

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

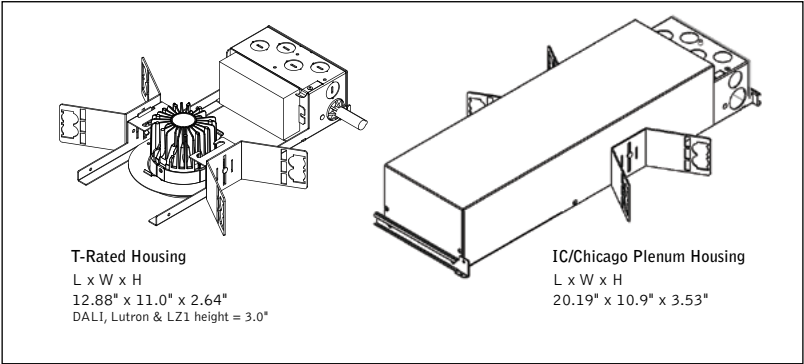
DISTRIBUTIONS



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. Restrictive airflow per ASTM-E283. LC2AT trim is inherently airtight and may be used to obtain airtight rating when used with IC-rated or thermally protected, non-IC (T) housings. 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. Accommodates ceiling thicknesses up to 0.5" standard, field adjustable up to 1.5" thickness. Fixture will not exceed 5 lb.

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

Above ceiling access required, overlap trim only. Emergency output - 7W for 90 minutes. Maximum mounting height: Clear Diffuse & White: 17.2ft. Black & Warm Diffuse: 15.5ft.

Labels

UL and cUL Listed. Suitable for Dry, Damp or Wet Locations, indoor use only. Specify Outdoor rated (OD) for outdoor recessed ceiling applications. Configurations available for Title 24 JA8 compliance, consult the JA8 High Efficacy Lighting Reference Guide for options. JA8 factory option must be specified to ensure Title 24 JA8 compliance.

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, or Warm Dimming (2700K-1800K and 3000K-1800K), CRI>80, >90 or 97. Color accuracy within 2 SDCM (Warm Dimming from 3-5 SDCM). Aluminum heat sink provides appropriate thermal management.

Aesthetics

Die-cast aluminum trims. Overlap trims are self-flanged. The Naturals: 100% low VOC vinyl available with DSS only.

Optics

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


Optic	Cut-Off Degree	Trim Type	Distribution Beam Spread Spacing Criteria						
			NFL	FL1	FL2	WFL1	WFL2	VWFL	SWFL
DNS	60°	Overlap	20° 0.36	33° 0.54	42° 0.68	52° 0.80	64° 0.92	-	-
		Trimless	21° 0.38	33° 0.54	43° 0.68	51° 0.78	62° 0.88	-	-
DSS	75°	Overlap	-	-	-	52° 0.86	61° 0.88	70° 1.02	81° 1.14
		Trimless	-	-	-	52° 0.84	65° 0.90	69° 0.98	89° 1.26

PERFORMANCE TABLE - see page 3.

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

HOUSING ORDERING		FLC2D
Housing Series		FLC2D
ID+ 2.5" Round		
Trim Type		
Round Overlap		RDO
Round Trimless		RDT
Color Options		
Standard White, 80 & 90 CRI		SW
High 97 CRI		HC
Warm Dim		WDM
(900L only. UNV, LV & EMR not available.)		
Lumen Output		
500 Lumen (LT1, LD1 & LVN only)		500L
700 Lumen (Not available with LFP or LH1)		700L
900 Lumen (Not available with LFP or LH1)		900L
1100 Lumen		1100L
1300 Lumen		1300L
1500 Lumen		1500L
1700 Lumen		1700L
1900 Lumen (LT1, LD1 & LH1 only)		1900L
Voltage		
120/277 Volt		UNV
(IC housing: SW & HC: 1500L max. T & TW housings: SW 1100L max., HC: 900L max.)		
120V		120
277V		277
Low Voltage		LV
(IC housing: SW & HC: 1500L max. T & TW housings: SW 1100L max., HC: 900L max.)		
Control System & Dimming Level		
0-10V <1% Dimming		LZ1
0-10V - 1% Dimming		L11
0-10V - 10% Dimming		LD1
Low Voltage, PoE Compatible		LVN
(No driver. Not available with EMR. LV voltage only.)		
Forward Phase (120V only)		LFP
Lutron Hi-Lume EcoSystem (LDE1) - 1% Dimming		LH1
DALI <1% Dimming		DZ1
DALI - 1% Dimming		D11
Housing Type		
IC Rated / Airtight (1500L max.)		IC
Thermally Protected, Non-IC		T
Thermally Protected, Non-IC Wood		TW
(Trimless only. Wood kit required)		
Factory Options		
Bar Hangers		BH
Chicago Plenum		CP
Emergency Battery - Remote test switch		EMR
(Overlap trim & T Housing only. Above ceiling access.)		
Outdoor Rated		OD
(LD1 driver and T-rated housing only. Not available with CP or EMR. See dimming performance table on page 3.)		
Title 24 / JA8 Compliant		JA8
(Consult JA8 Reference Guide for available options.)		
TRIM & LED MODULE		
Aperture		
2.5" Round Reflector		LC2
2.5" Round Airtight Reflector		LC2AT
Trim Type		
Round Overlap		RDO
Round Trimless		RDT
Lumen Output		
Trim & housing output must match. See options above.		
Color Temperature		
(Add 9 for 90 CRI or H for 97 CRI. Leave blank for 80 CRI. Examples: 2700K, 97 CRI = H27K. 2700K, 80 CRI = 27K.)		
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
Optic		
Short Cone with 60° cut-off		DNS
Super Short Cone with Solite Lens 75° cut-off		DSS
Distribution		
Narrow Flood (DNS only)		NFL
Flood (DNS only)		FL1
Flood (DNS only)		FL2
Wide Flood		WFL1
Wide Flood		WFL2
Very Wide Flood (DSS only)		VWFL
Super Wide Flood (DSS only)		SWFL
Finish		
(See finishes page for The Naturals options available on DSS optic only.)		
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		
Trimless Wood Ceiling Installation Kit		LC2- WOOD-KIT
(One kit recommended per 10 downlights)		

2.5" ROUND DOWNLIGHT PERFORMANCE TABLE

Lumen Output	Delivered Lumens	System Watts	LPW
500L	513	6	86
700L	756	8.2	92
 900L	880	14.6	60
900L	929	9.9	94
1100L	1139	11.9	96
1300L	1354	16.2	84
1500L	1527	18.1	84
1700L	1746	20.7	84
1900L	1949	23.3	84

Based on Overlap, Short cone, 3500K, 80 CRI, Flood 2, Clear Diffuse. WDM based on 3000 - 1800K, 90 CRI. Delivered lumen output may vary +/- 5%. Actual wattage may vary +/- 5%

OUTDOOR RATED (OD) DRIVER DIMMING PERFORMANCE TABLE

Lumen Output	Minimum Dimming Level
500L	25%
700L	17%
900L	13%
1100L	10%
1300L	10%
1500L	10%
1700L	10%
1900L	10%

2.5" ROUND DOWNLIGHT LUMEN MULTIPLIER TABLE

Color Temperature & CRI

Trim Type	Optic	Color Temperature & CRI		Multiplier
ALL	ALL	2700K	80+ CRI [27K]	0.92
			90+ CRI [927K]	0.79
			97 CRI [H27K]	0.67
		3000K	80+ CRI [30K]	0.98
			90+ CRI [930K]	0.83
			97 CRI [H30K]	0.72
		3500K	80+ CRI [35K]	1.00
			90+ CRI [935K]	0.82
			97 CRI [H35K]	0.73
		4000K	80+ CRI [40K]	1.01
			90+ CRI [940K]	0.84
			97 CRI [H40K]	0.76
		2700-1800K	90+ CRI [92718K]	0.93
		3000-1800K	90+ CRI [93018K]	0.98

Distribution

Trim Type	Optic	Distribution	Multiplier
Round Trimless [RDT]	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	1.05
		Flood 1 [FL1]	0.99
		Flood 2 [FL2]	1.03
		Wide Flood 1 [WFL1]	1.00
		Wide Flood 2 [WFL2]	0.91
		Wide Flood 1 [WFL1]	1.07
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Wide Flood 2 [WFL2]	0.82
		Very Wide Flood [VWFL]	0.85
		Super Wide Flood [SWFL]	0.75
		Super Wide Flood [SWFL]	0.75
Round Overlap [RDO]	Short Cone with 60° cut-off [DNS]	Narrow Flood [NFL]	1.05
		Flood 1 [FL1]	0.99
		Flood 2 [FL2]	1.03
		Wide Flood 1 [WFL1]	1.00
		Wide Flood 2 [WFL2]	0.91
		Wide Flood 1 [WFL1]	1.07
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Wide Flood 2 [WFL2]	0.82
		Very Wide Flood [VWFL]	0.85
		Super Wide Flood [SWFL]	0.75
		Super Wide Flood [SWFL]	0.75

Color

Trim Type	Optic	Color	Multiplier
ALL	Short Cone with 60° cut-off [DNS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.99
		White [WH]	1.08
		Black [BK]	0.90
	Super Short Cone with Solite Lens with 75° cut-off [DSS]	Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.98
		White [WH]	1.08
		Black [BK]	0.90
		Clear Diffuse [CD]	1.00
		Warm Diffuse [WD]	0.98
		White [WH]	1.08
		Black [BK]	0.90

How To Use Lumen Multipliers

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

Example:
LC2-RDO-SW-1100L-935K-DNS-FL1-WH

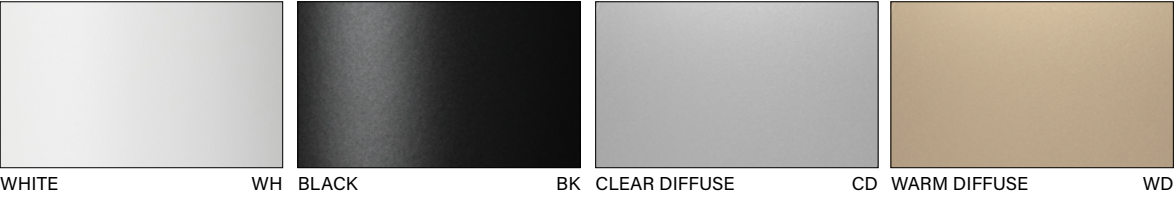
(1100) x (0.83) x (0.99) x (1.08) ≈ 976lm
(estimated delivered lumens)

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



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

