prescolite

D2LED Lens

2" LED LENS DOWNLIGHT
120/277V

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

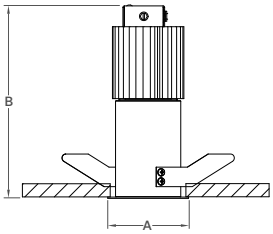
- 2" architectural LED lensed downlight delivering 700–1500 lm
- Available in 2700K, 3000K, 3500K, 4000K, and 5000K
- TriGain® technology is standard and delivers 90+ CRI (50+ R9) color rendition without efficacy compromise
- Standard 45° nominal beam distribution
- Multiple lens/louver options including clear, diffuse, Solite, prismatic, hexcell, and flush diffuse
- Compact J-Tube architecture for simplified installation and service from below the ceiling
- Standard 0–10V dimming with optional dimming below 1%
- Suitable for wet location applications



C SA US

WET LOCATION

TriGain® technology



Typical Dimensions and Weights				
Distribution	Aperture Inches (mm)	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight Lbs (kg)
WFL45	Ø 2.25" (57.2mm)	Ø 3.125" (79.4mm)	Ø 5.875" (149.2mm)	2.5 (1.1)

See DIMENSIONS section for complete details.

SPECIFICATIONS

CONSTRUCTION

- Compact J-Tube assembly integrates junction box and driver electronics
- Extruded aluminum heat sink for thermal management
- Accessible from below the ceiling plane for installation and service
- Lens/louver configurations available for application-specific appearance and visual comfort

OPTICS

- High-purity spun aluminum reflector with anodized and painted finish options
- Standard 45° nominal beam distribution
- Regressed clear, diffuse, hexcell black, prismatic, and Solite lens/louver options
- Diffuse flush lens option available
- Lens/louver selection changes delivered lumens and visual appearance. See performance section for details

ELECTRICAL

- Chip-on-board LED with 2 SDCM
- TriGain® technology provides improved color rendition without compromise to LED efficacy
- 2700K, 3000K, 3500K, 4000K, 5000K CCTs, 90+ CRI
- Long LED life: L70 / >66,000 hours (TM-21)
- Universal voltage 120–277V driver
- UL Class 2, inherent short circuit and overload protection
- 0–10V, phase dimming and Lutron driver options

INSTALLATION

- J-Tube assembly can be installed and accessed from below the ceiling plane
- Accommodates ceiling thickness from 0.50" to 1.25"
- Through-branch wiring supported with appropriate connector
- Optional mounting frame, IC/airtight, CCEA, and flush mount ring accessories available

CERTIFICATIONS

- CSA C/US certified to UL1598
- Suitable for wet locations, covered ceiling
- Non–IC rated and 2IN/2OUT through branch wiring
- Suitable for operation in environments -20°C to 25°C ambient

WARRANTY

- 5 Year Warranty

KEY DATA	
Lumen Range	700–1500
Wattage Range	6.8–14.5
Efficacy Range (LPW)	39.5–102.2
Reported Life (Hours)	L70 / >66,000
Input Current (mA)	57–122 (120V)

*Based on Specular, 35K, 90+ CRI

© 2026 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

prescolite

D2LED Lens

2" LED LENS DOWNLIGHT
120/277V

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ORDERING GUIDE

Example: D2LED–2D9LED9L30K9WFL45SL

CATALOG #

J-TUBE ASSEMBLY

D2LED			–
J-Tube Assembly	**Voltage**	**Options**	
D2LED J-Tube Assembly with Standard 0–10V, 1% Dimming	*Standard 120/277V*	*Standard 0–10V, 1% Dimming*	
		DM01 eldoLED 0–10V Dimming 0.1%	
		EDM Lutron Hi-Lume EcoSystem Dimming to 0.1%	

LIGHT ENGINE ASSEMBLY

2D9LED			9	
Light Engine	**Lumen Output**	**CCT**	**CRI**	**Distribution**
2D9LED 2" Open Reflector/ Light Engine Assembly	**7L** 700 Lumens	**27K** 2700K	**9** 90+ CRI	**WFL45** Nominal 45° cutoff
	9L 900 Lumens	**30K** 3000K		
	12L 1200 Lumens	**35K** 3500K		
	15L 1500 Lumens	**40K** 4000K		
		50K 5000K		

LIGHT ENGINE ASSEMBLY (CONTINUED)

				–
Reflector Finish	**Reflector Color**	**Flange Options**	**Lens**	
Standard Specular	*Standard Clear*	*Standard Matches Reflector Color*	**CL** Clear, Regressed	
SS Semi-Specular	**LW** Light Wheat [2]	**WT** White Trim Flange [3]	**DL** Diffuse, Regressed	
MFC American Matte	**PW** Pewter [2]	**BT** Flat Black Trim Flange [3]	**HB** Hexcell Black, Regressed	
VS Softglow	**BC** Painted Flat Black Cone		**FLU** Diffuse, Flush [1]	
VSS SoftSheen	**WC** Painted White Cone		**PL** Prismatic, Regressed	
			SL Solite, Regressed	

Accessories	
☐ **FMR2**	2" Flush Mount Ring
☐ **D2FRM**	Mounting Frame
☐ **D2ICAT**	IC Rated, Air Tight housing
☐ **D2CP**	CCEA compliant housing
☐ **LiteGear**	Inverter, single phase central lighting, 125VA–250VA [4]
☐ **LPS Series**	LitePower micro-inverter, 20VA–55VA [4]

Notes:
1 For FLU option, no reflector color selection is required. Either WT or BT flange must be selected.
2 Only available with SS finish.
3 WT not needed for WC, BT not needed for BC.
4 See Central Inverter compatibility note and web links on page 6.

© 2026 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

prescolite

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

D2LED Lens

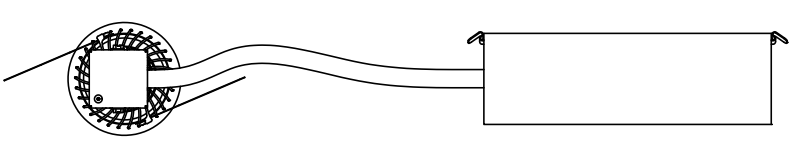
2" LED LENS DOWNLIGHT
120/277V

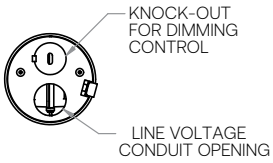
PERFORMANCE DATA TABLE

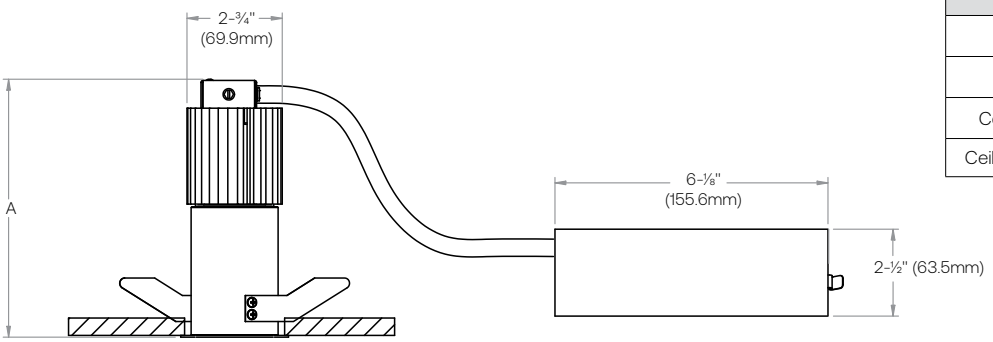
Performance data provided below is for 3500K, 90+ CRI with Specular Clear reflector finish/color

Lumen Package	Nominal Lumens	Lens	Delivered Lumens	Watts	LPW
7L	700	CL	687	6.8	102
		DL	605		90
		HB	278		41
		FLU	575		85
		PL	591		88
		SL	687		102
9L	900	CL	828	8.1	102
		DL	730		90
		HB	336		41
		FLU	693		86
		PL	712		88
		SL	828		102
12L	1200	CL	1098	10.9	101
		DL	968		89
		HB	445		41
		FLU	920		84
		PL	646		59
		SL	1099		101
15L	1500	CL	1411	14.5	97
		DL	1244		86
		HB	573		40
		FLU	1182		82
		PL	1215		84
		SL	1411		97

DIMENSIONS







Dimensional Data	
Aperture	ø 2.25" (57.2mm)
Flange	ø 3.125" (79.4mm)
Ceiling Cutout	ø 2.875" (73.0mm)
Ceiling Thickness	0.5" to 1.25" (12.7mm to 31.88mm)

Distribution	Dim "A"
WFL45	ø 5.875" (149.2mm)

For installation hints, see page 6.

© 2026 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

prescolite

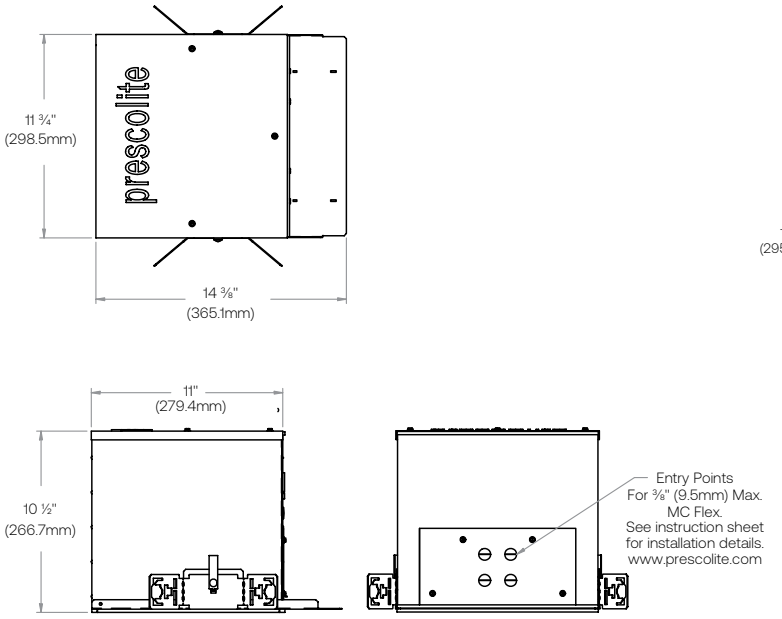
D2LED Lens

2" LED LENS DOWNLIGHT
120/277V

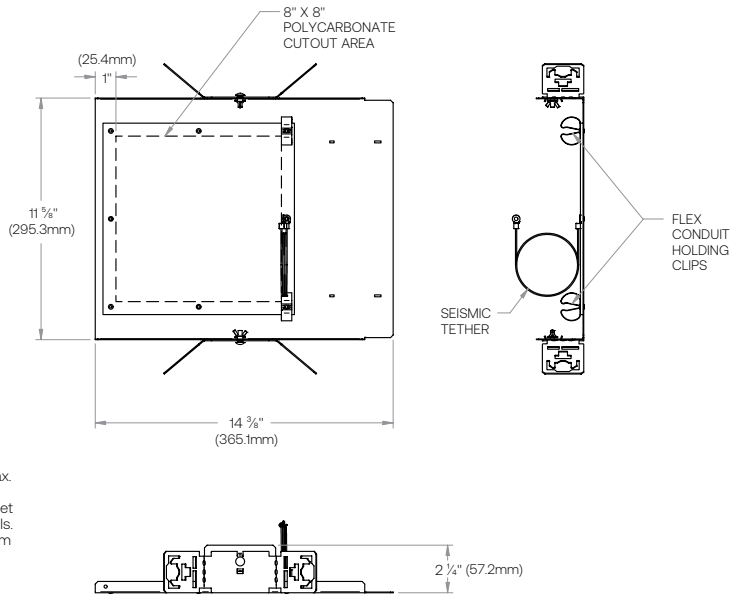
DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

DIMENSIONS (CONTINUED)

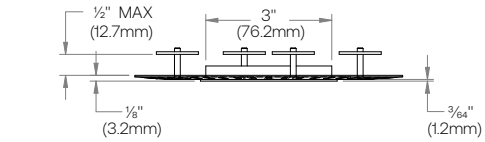
Accessories

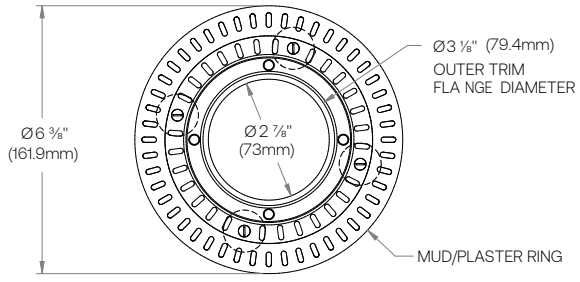


D2ICAT/D2CP



D2FRM





FMR2

© 2026 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

prescolite

D2LED Lens

2" LED LENS DOWNLIGHT
120/277V

DATE: | LOCATION:

TYPE: | PROJECT:

CATALOG #:

PHOTOMETRY

D2LED-2D9LED15L35K9WFL45CL

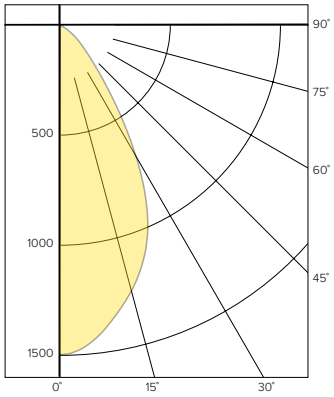
LUMINAIRE DATA

Test No.	**26.00387**
Description	**1500 L, WFL45, 3500K, 90 CRI**
Delivered Lumens	**1411**
Watts	**14.5W**
Efficacy	**97.4**
Mounting	**Recessed**
Spacing Criterion	**0.9**
Beam Angle	**58**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1196	84.7
0–60	1396	98.9
0–90	1411	100.0
0–180	1411	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1498
5	1459
15	1253
25	941
35	448
45	170
55	70
65	12
75	1
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	84116
55°	42699
65°	9935
75°	1352
85°	0

***Candela/Square Meter**

LUMEN MULTIPLIER

Option	27K9	30K9	35K9	40K9	50K9
Multiplier	0.95	0.99	1.00	1.00	1.00

Photometrics are published at a nominal 3500 Kelvin, 90+ CRI. This table may be used to approximate the lumen values at different Kelvin temperatures. Power consumption would stay the same.

REFLECTOR FINISH MULTIPLIER (Based on Clear (Standard) Color)

Option	Specular (S)	Semi-Specular (SS)	American Matte (MFC)	Softglow (VS)	Softsheen (VSS)
Multiplier	1	1	0.984	0.888	0.938

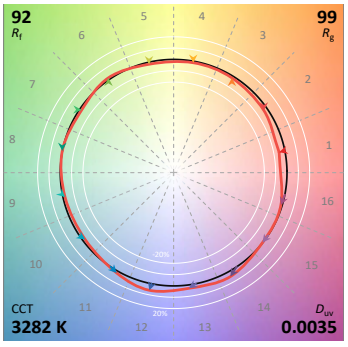
REFLECTOR COLOR MULTIPLIERS (Available in Semi-Specular (SS) Finish only)

Option	Clear (Standard)	Light Wheat (LW)	Pewter (PW)	White Cone (WC)	Black Cone (BC)
Multiplier	1	0.861	0.915	0.984	0.442

Multiply CCT x FINISH x COLOR to calculate combinations. Example: 27K9 with Semi-Specular Pewter = 0.95 (27K9) x 0.915 (SSPW) = 0.869

TM-30 DATA

COLOR VECTOR GRAPHIC
3500K, 90 CRI



Reference Illuminant — Test Source

TEST RESULTS - 3500K	
Value	90+ CRI
R_f	92
R_g	99
CCT (K)	3282
D_{UV}	0.0035
x	0.4224
y	0.4069
CIE R_a	93
CIE R_9	60

© 2026 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.

prescolite

D2LED Lens

2" LED LENS DOWNLIGHT
120/277V

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

ELECTRICAL DATA

DRIVER DATA	
Input Voltage	120–277V
Input Frequency	50/60 Hz
Power Factor	≥0.90
THD	<20%
EMI Filtering (FCC 47 CFR Part 15)	Class A

*Data for standard 0–10V, 1% dimming models. Electrical and photometric data may vary slightly with other dimming options.
**Short circuit, over-voltage, over-current protection.

INSTALLATION HINTS

Daisy Chain:

Often times through branch wiring (Daisy Chaining) will be desired for installation of the D2LED in an application. There is one knock out available in the J-tube for the line voltage, and one for the low voltage control wires. To accomplish 2in/2out through branch wiring.
Prescolite suggests the use of an Arlington Duplex Connector (PN 4040AST).

Ceiling Cut-out:

Due to the discrete trim flange on the D2LED, the accuracy of the 2-⅞" ceiling cut-out is critical to achieving the best results.
Prescolite recommends making this cut-out with a 2-⅞" hole saw, such as one manufactured by the Morse Company (TAC46 and TACPD4).

Ceiling Clearance:

When no top access is available to the J-Tube, 8" of plenum clearance is recommended for the standard driver/J-Tube options.

ADDITIONAL INFORMATION

Central Inverters

For full fixture output in back-up mode, we recommend you visit currentlighting.com/dual-lite for your Central Lighting Inverter options.
Please contact your local Current representative for any assistance with proper sizing and loading of your inverter selection.
Central lighting inverters must be ordered separately.

Dimming Compatibility

For more details and recommended dimmer list, see Dimming Compatibility Information at www.currentlighting.com/prescolite.

Additional Notes

*Note: Use of the D2ICAT and D2CP can cause heat entrapment, which while safe to use, can shorten the expected life of this product from > 50,000 hours to 25,000 hours when used with the 12L options. The product warranty in these applications will be 5 years, or 25,000 hours, which ever comes first.

*Note: Ceiling thickness maximum when using D2ICAT or D2CP is ⅝". Ceiling thickness maximum when using D2FRM is 1". Bar hangers not included, order B6 for ceiling joists up to 24" centers or B24 for T-bar ceilings.

*Note: The standard product is designed and listed to be installed into most ceiling types without the use of an accessory frame. These frames are provided as an optional accessory to be used when desired by the end user to provide extra support or required by local code.

*Note: CP versions require the use of the D2ICAT accessory modified with metal plate in place of polycarbonate.

© 2026 HLI Solutions, Inc. All rights reserved. Information and specifications subject to change without notice. All values are design or typical values when measured under laboratory conditions.