prescolite

D2LED OPEN

2" LED OPEN DOWNLIGHT
120/277V

DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

FEATURES

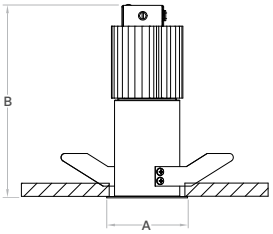
- 2" architectural LED downlight delivering 700–1500 lm
- Available in 2700K, 3000K, 3500K, 4000K, and 5000K
- TriGain® technology is standard and delivers 90+ CRI (50+ R9) color rendition without efficacy compromise
- Precision optical distributions including 25°, 35°, and 45° beam patterns
- Premium reflector finishes and colors available
- Compact J-Tube architecture for simplified installation and service from below the ceiling
- Standard 0–10V dimming with optional dimming below 1%
- Suitable for Damp 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)
FL35			Ø 6.75" (171.5mm)	
MD25			Ø 7.50" (190.5mm)	

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
- Eliminates the need for a traditional plaster frame downlight housing
- IC Rated and Chicago Plenum available when used with optional housing accessories

OPTICS

- Designed for visual comfort and precise beam control
- High purity spun aluminum reflector, self-flanged
- 25°, 35°, or 45° optical distribution options
- Recessed light source provides superior glare control
- MD25 distribution: 24° cutoff angle
- FL35 distribution: 29° cutoff angle
- WFL45 distribution: 39° cutoff angle
- Premium anodized and painted reflector finish options available

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 damp 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	6.5–14.4
Efficacy Range (LPW)	96–118
Reported Life (Hours)	L70 / >66,000
Input Current (mA)	55–121 (120V)

*Based on Specular, 35K, 90+ CRI

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ORDERING GUIDE

Example: D2LED–2D9LED9L30K9WFL45

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 to 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	MD25 Nominal 25° cutoff
	9L 900 Lumens	30K 3000K		FL35 Nominal 35° cutoff
	12L 1200 Lumens	35K 3500K		WFL45 Nominal 45° cutoff
	15L 1500 Lumens	40K 4000K		
		50K 5000K		

LIGHT ENGINE ASSEMBLY (CONTINUED)

			–
Reflector Finish	**Reflector Color**	**Flange Options**	
Standard Specular	*Standard Clear*	*Standard Matches Reflector Color*	
SS Semi-Specular	LW Light Wheat [1]	WT White Trim Flange [2]	
MFC American Matte	PW Pewter [1]	BT Flat Black Trim Flange [2]	
VS Softglow	BC Painted Flat Black Cone		
VSS SoftSheen	WC Painted White Cone		

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 [3]
☐ LPS Series	LitePower micro-inverter, 20VA–55VA [3]

Notes:
1 Only available with SS finish.
2 WT not needed for WC, BT not needed for BC.
3 See Central Inverter compatibility note and web links on page 7.

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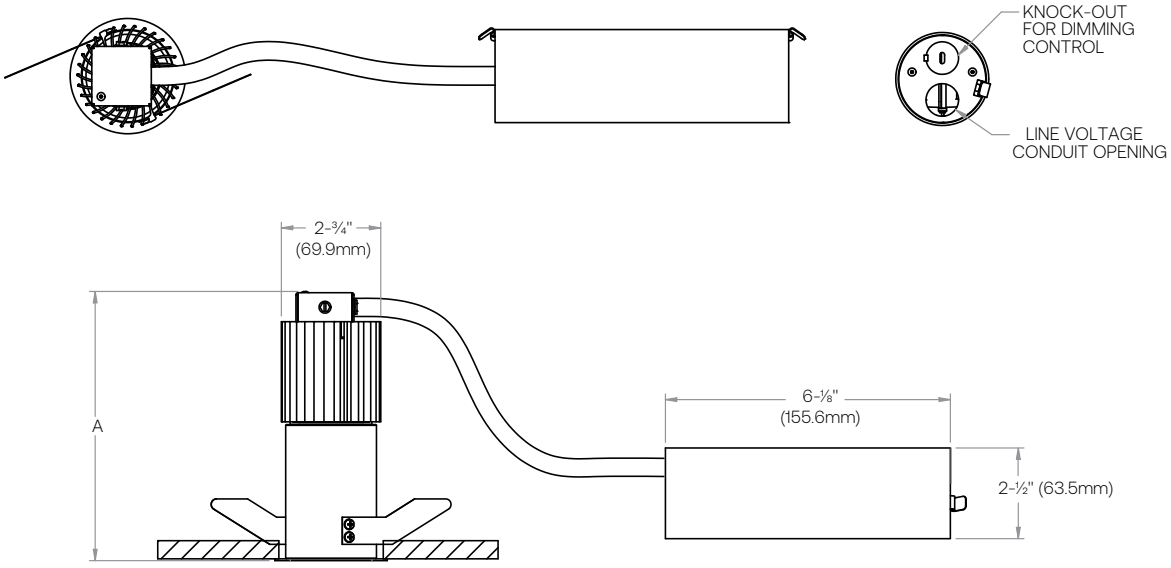
CATALOG #:

PERFORMANCE DATA TABLE

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

Lumen Package	Nominal Lumens	Distribution	Delivered Lumens	Watts	LPW
07L	700	25°	712	6.9	104
		35°	641	6.7	96
		45°	766	6.5	118
09L	900	25°	831	8.0	104
		35°	829	8.0	104
		45°	928	8.0	116
12L	1200	25°	1109	10.8	103
		35°	1087	10.8	101
		45°	1231	10.8	114
15L	1500	25°	1428	14.4	99
		35°	1423	14.4	99
		45°	1596	14.4	111

DIMENSIONS



For installation hints, see page 7.

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)
FL35	ø 6.75" (171.5mm)
MD25	ø 7.50" (190.5mm)

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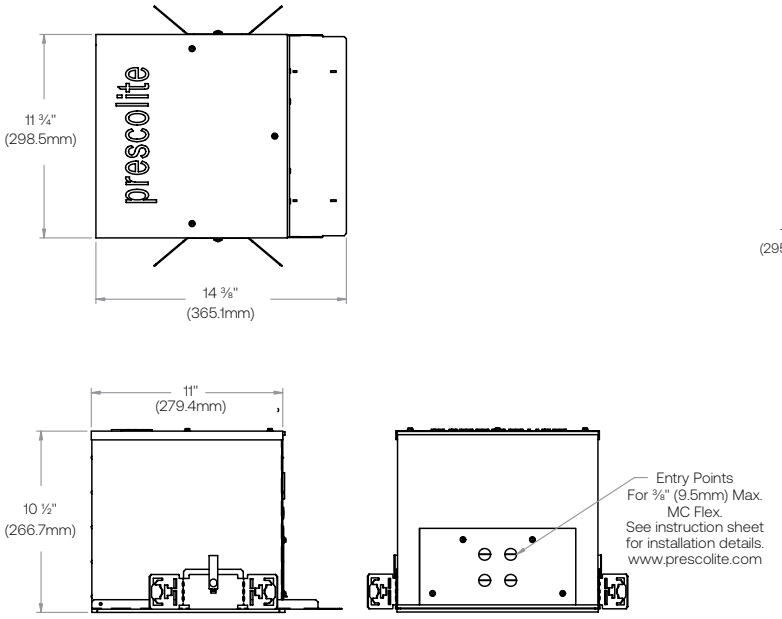
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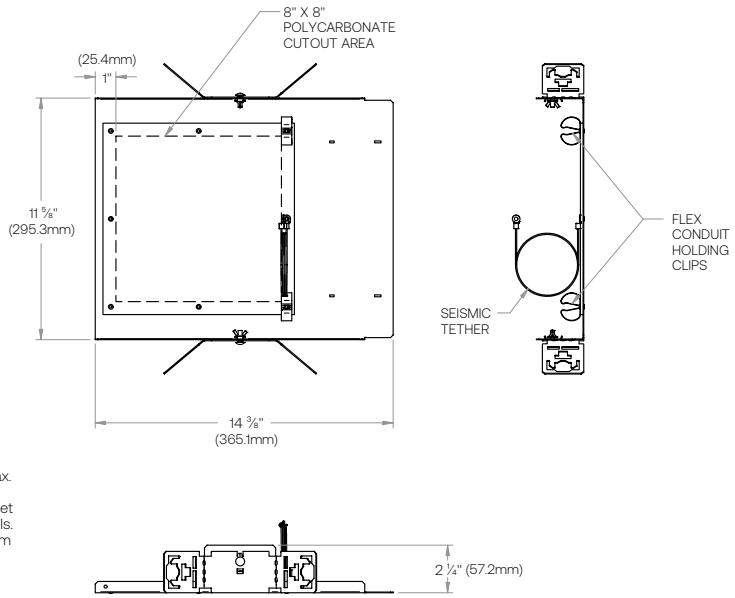
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CATALOG #:	

DIMENSIONS (CONTINUED)

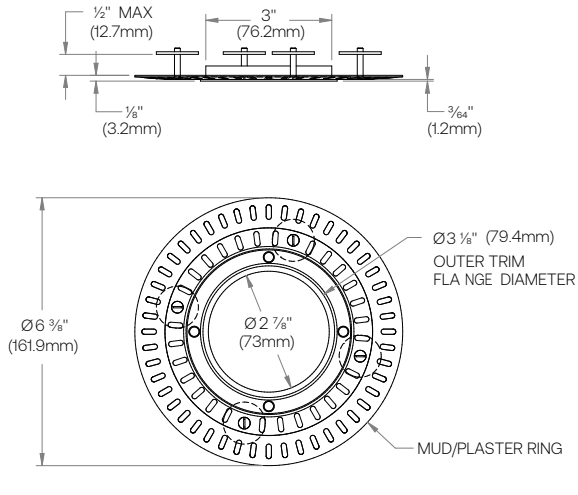
Accessories



D2ICAT/D2CP



D2FRM



FMR2

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PHOTOMETRY

D2LED-2D9LED15L35K9WFL45

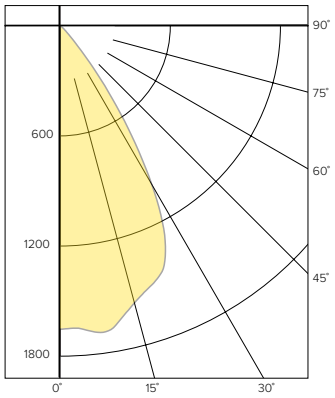
LUMINAIRE DATA

Test No.	**26.00142**
Description	**1500 L, WFL45, 3500K, 90 CRI**
Delivered Lumens	**1596**
Watts	**14.4W**
Efficacy	**111**
Mounting	**Recessed**
Spacing Criterion	**0.9**
Beam Angle	**63**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1544	96.7
0–60	1595	99.9
0–90	1596	100.0
0–180	1596	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1656
5	1667
15	1566
25	1359
35	535
45	47
55	3
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	23256
55°	1830
65°	828
75°	0
85°	0

***Candela/Square Meter**

D2LED-2D9LED15L35K9FL35

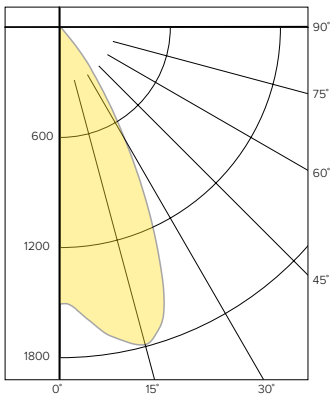
LUMINAIRE DATA

Test No.	**26.00133**
Description	**1500 L, FL35, 3500K, 90 CRI**
Delivered Lumens	**1423**
Watts	**14.4W**
Efficacy	**99**
Mounting	**Recessed**
Spacing Criterion	**0.9**
Beam Angle	**55.7**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1403	98.6
0–60	1422	99.9
0–90	1423	100.0
0–180	1423	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	1508
5	1590
15	1791
25	1181
35	337
45	13
55	3
65	1
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	6432
55°	1830
65°	828
75°	0
85°	0

***Candela/Square Meter**

D2LED-2D9LED15L35K9MD25

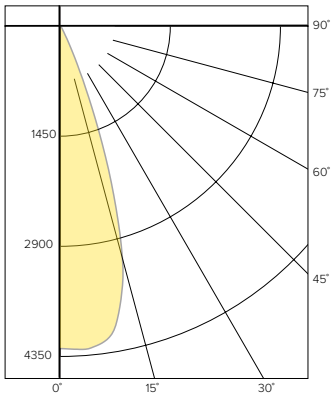
LUMINAIRE DATA

Test No.	**26.00636**
Description	**1500 L, MD25, 3500K, 90 CRI**
Delivered Lumens	**1428**
Watts	**14.4W**
Efficacy	**99.2**
Mounting	**Recessed**
Spacing Criterion	**0.53**
Beam Angle	**36.2**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	1424	99.7
0–60	1428	100.0
0–90	1428	100.0
0–180	1428	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	4247
5	4265
15	3161
25	339
35	8
45	3
55	1
65	0
75	0
85	0
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	16593
55°	1227
65°	555
75°	907
85°	0

***Candela/Square Meter**

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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

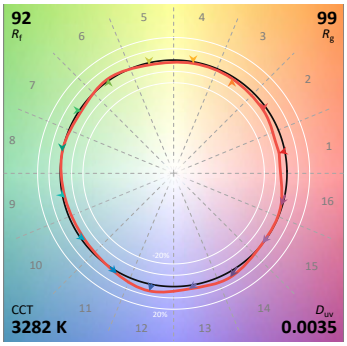
REFLECTOR COLOR MULTIPLIERS (Available in Semi-Specular (SS) Finish only)

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



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

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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 the dual-lite website 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.

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