prescolite

D2LED WW

2" LED WALL WASH
120/277V

DATE: | LOCATION:

TYPE: | PROJECT:

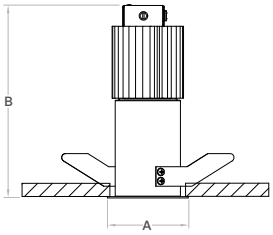
CATALOG #:

FEATURES

- 2" architectural LED wall wash delivering 700–1200 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 wall wash and shielded wall wash optical distributions
- Shielded wall wash option helps eliminate side light and direct peripheral light toward the wall
- 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



TriGain® technology



Typical Dimensions and Weights				
Distribution	Aperture Inches (mm)	"A" Diameter Inches (mm)	"B" Height Inches (mm)	Weight Lbs (kg)
WW/SWW	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
- Precision spun aluminum self-flanged reflector construction

OPTICS

- High-purity spun aluminum reflector with anodized and painted finish options
- Novel wall wash optical system for wall wash distribution from a 2" aperture
- Available in standard Wall Wash (WW) and Shielded Wall Wash (SWW)
- Standard wall wash supports wall and room illumination
- Shielded wall wash is intended for corridors or spaces with viewing angles perpendicular to the wall

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	700–1200
Wattage Range	6.7–11
Efficacy Range (LPW)	56–113
Reported Life (Hours)	L70 / >66,000
Input Current (mA)	56–121 (120V)

*Based on Specular, 35K, 90+ CRI

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ORDERING GUIDE

Example: D2LED–2D9LED9L30K9SWW

CATALOG # | D2LED | | | – | | | | | | | | | | |

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	WW	Wall Wash
		9L	900 Lumens	30K	3000K			SWW	Shielded Wall Wash
		12L	1200 Lumens	35K	3500K				
				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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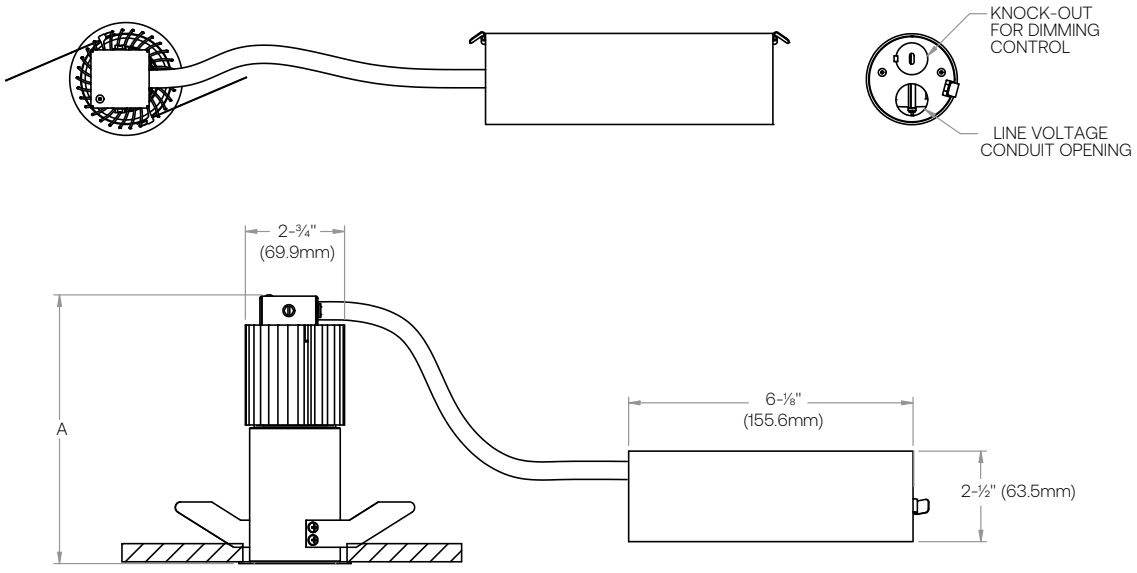
CATALOG #:

PERFORMANCE DATA TABLE

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

Lumen Package	Nominal Lumens	Lens	Delivered Lumens	Watts	LPW
07L	700	WW	751	6.7	113
		SWW	392	6.7	59
09L	900	WW	907	8.0	113
		SWW	474	8.0	59
612L	1200	WW	1175	11.0	107
		SWW	614	11.0	56

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"
WW/SWW	ø 5.875" (149.2mm)

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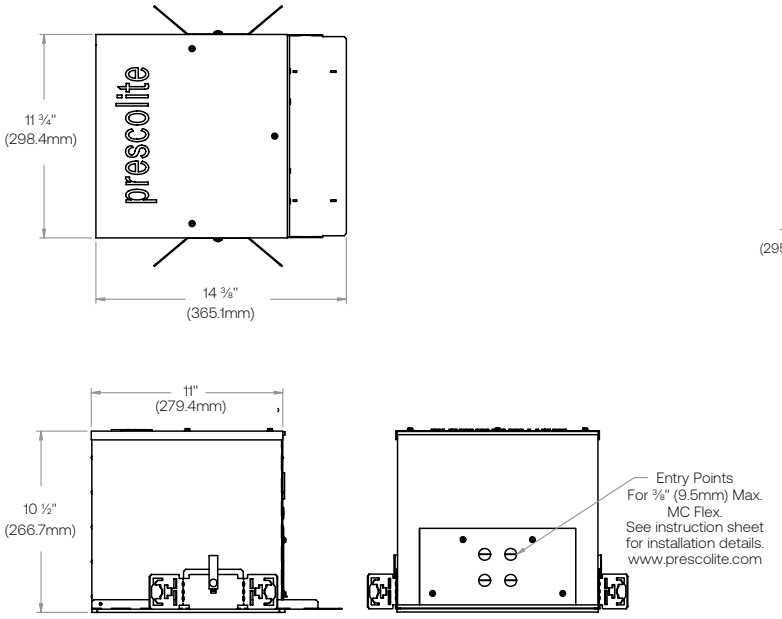
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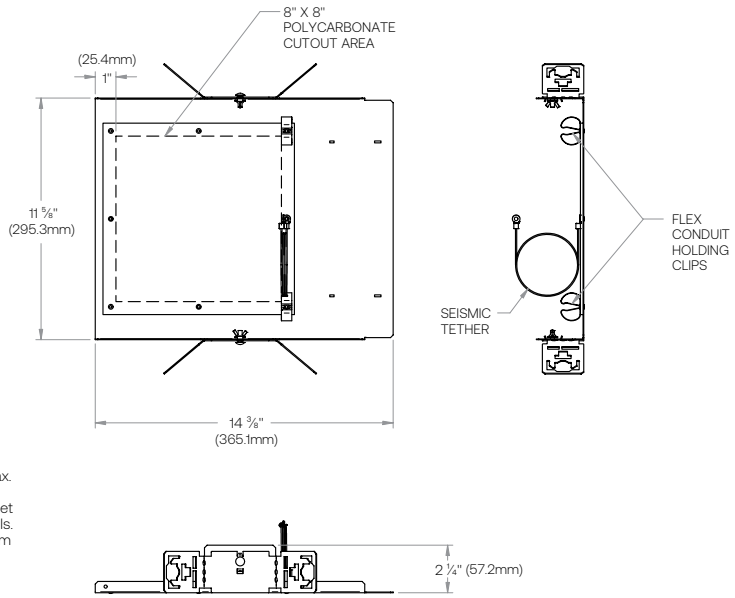
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CATALOG #:	

DIMENSIONS (CONTINUED)

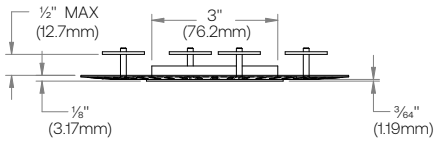
Accessories

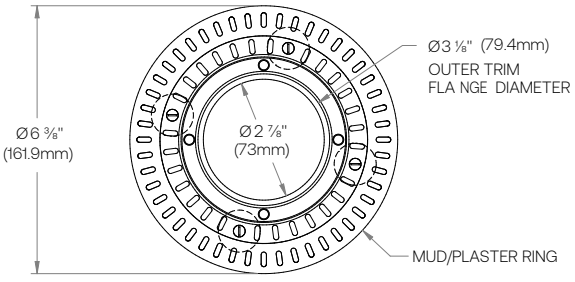


D2ICAT/D2CP



D2FRM





FMR2

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PHOTOMETRY

D2LED-2D9LED12L35K9WW

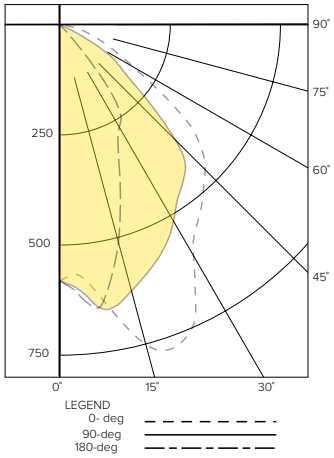
LUMINAIRE DATA

Test No.	**26.00218**
Description	**1200 L, WW Version, 3500K, 90 CRI**
Delivered Lumens	**1175**
Watts	**11 W**
Efficacy	**106.7**
Mounting	**Recessed**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	749	63.7
0–60	1108	94.3
0–90	1175	100.0
0–180	1175	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	581
5	575
15	751
25	727
35	545
45	466
55	303
65	132
75	57
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	230577
55°	184828
65°	109280
75°	77054
85°	4014

***Candela/Square Meter**

D2LED-2D9LED12L35K9SWW

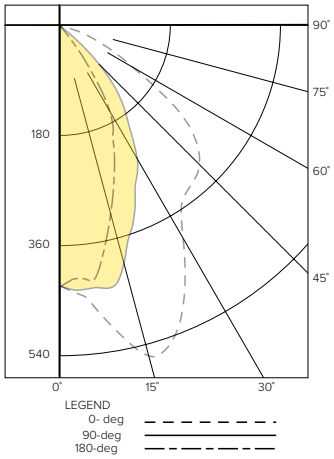
LUMINAIRE DATA

Test No.	**26.00638**
Description	**1200 L, SWW VERSION, 3500K, 90 CRI**
Delivered Lumens	**614**
Watts	**11.1 W**
Efficacy	**55.6**
Mounting	**Recessed**

ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
0–40	420	68.3
0–60	582	94.7
0–90	614	100.0
0–180	614	100.0

POLAR GRAPH



CANDELA DISTRIBUTION

Degree	Candela
0	424
5	442
15	557
25	479
35	347
45	320
55	228
65	94
75	33
85	1
90	0

LUMINANCE DATA*

Vertical Angle	Average
45°	158336
55°	139078
65°	77821
75°	44610
85°	4014

***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

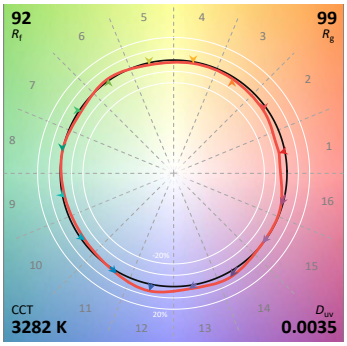
REFLECTOR COLOR MULTIPLIERS (Available in Semi-Specular (SS) Finish only)

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, 6–¾" 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.

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. 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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