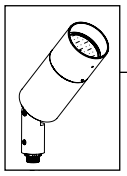

18-29W LED

DENALI SERIES™ FLOODLIGHT

PROJECT:	
TYPE:	
CATALOG NUMBER:	
SOURCE:	
NOTES:	

CATALOG NUMBER LOGIC

	DE	**LED**							
Example:	**DE**	**LED**	**x31**	**FL**	**SAP**	**12**	**11**	**C**	

Series
- **DE** - Denali Series™ Floodlight

Source
- **LED** - 'X' Module with Cold Phosphor Technology

LED Type
- **x30** - 18WLED/2.7K
- **x31** - 18WLED/3K
- **x32** - 18WLED/4K
- **x33** - 29WLED/2.7K
- **x34** - 29WLED/3K
- **x35** - 29WLED/4K

Optics
- **SP** - Spot (20°)
- **FL** - Flood (40°)
- **WFL** - Wide Flood (60°)

Finish

Aluminum Finish

Powder Coat Color	Satin	Wrinkle
Bronze	**BZP**	**BZW**
Black	**BLP**	**BLW**
White (Gloss)	**WHP**	**WHW**
Aluminum	**SAP**	—
Verde	—	**VER**

Premium Finish

ABP Antique Brass Powder	**CMG** Cascade Mountain Granite	**RMG** Rocky Mountain Granite
AMG Aleutian Mountain Granite	**CRI** Cracked Ice	**SDS** Sonoran Desert Sandstone
AQW Antique White	**CRM** Cream	**SMG** Sierra Mountain Granite
BCM Black Chrome	**HUG** Hunter Green	**TXF** Textured Forest
BGE Beige	**MDS** Mojave Desert Sandstone	**WCP** Weathered Copper
BPP Brown Patina Powder	**NBP** Natural Brass Powder	**WIR** Weathered Iron
CAP Clear Anodized Powder	**OCP** Old Copper	*Also available in RAL Finishes See submittal SUB-1439-00*

Lens Type
- **9** - Clear (Standard)
- **10** - Spread Lens*
- **12** - Soft Focus Lens*
- **13** - Rectilinear Lens*

Shielding
- **11** - Honeycomb Baffle*

**Accommodates up to 2 Lens/Shielding media*

Cap Style
- **A** - 45°
- **B** - 90°
- **C** - Flush
- **D** - 45° less Weep Hole *(Interior Use Only)*
- **E** - 90° less Weep Hole *(Interior Use Only)*

Configure Driver Housing Separately
Driver Housing Required

INTEGRAL DRIVER HOUSINGS:
- **HP2** - HP2 Housing
- **PM2** - Universal Power Module 2
- **PM2D** - Universal Power Module 2 Dual
- **PC** - Power Canopy
- **PPII** - Power Pipe II
- **TMB** - Pole Mount or Tenon Mount

REMOTE DRIVER HOUSINGS:
- **HP2RM** - HP2 Remote Housing
- **PM2RM** - Universal Power Module 2 Remote
- **PM2DRM** - Universal Power Module 2 Dual Remote
- **RM** - Remote Wall Mount
- **DRM** - Dual Remote Wall Mount

LM79 DATA

BK No.	Lumens (Source)	CCT (Typ.)	CRI (Ra. Typ.)	Color Consistency	Input Watts (Typ.)
x30	1300	2700K	>80	±40K	18
x31	1300	3000K	>80	±50K	18
x32	1300	4000K	>80	±70K	18
x33	2000	2700K	>80	±40K	29
x34	2000	3000K	>80	±50K	29
x35	2000	4000K	>80	±70K	29

L70 DATA

Minimum Rated Life (hrs.) 70% of initial lumens (L_{70})
50,000
50,000
50,000
50,000
50,000
50,000

OPTICAL DATA

Beam Type	Angle
Spot	20°
Flood	40°
Wide Flood	60°

B-K LIGHTING

40429 Brickyard Drive • Madera, CA 93636 • USA
559.438.5800 • FAX 559.438.5900
www.bklighting.com • info@bklighting.com

SUBMITTAL DATE	DRAWING NUMBER
12-16-14	SUB001113

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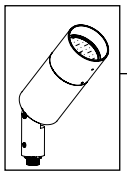


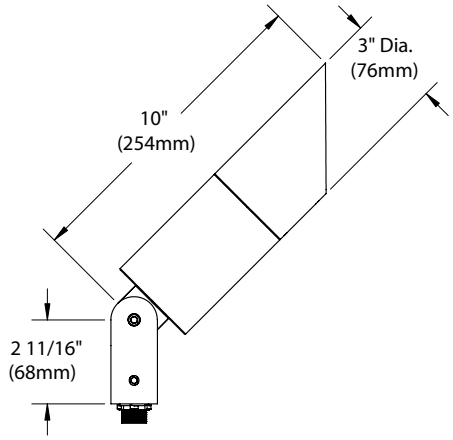
18-29W LED

THE POWER OF

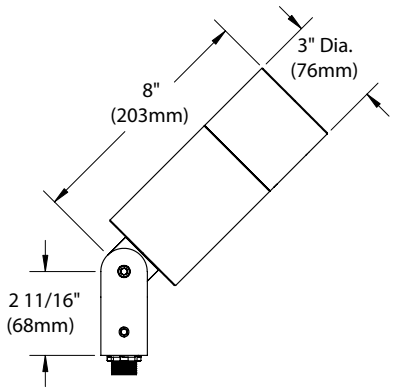
DENALI SERIES™ FLOODLIGHT

PROJECT:	
TYPE:	

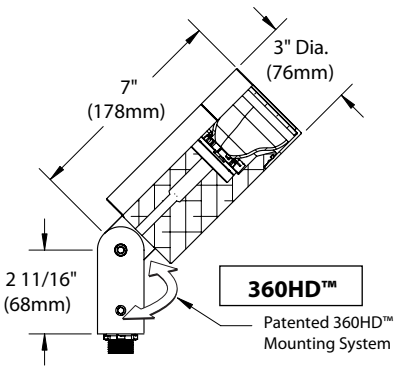
"A/D" CAP



"B/E" CAP



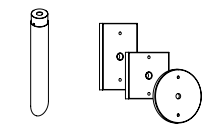
"C" CAP



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

Accessories *(Configure separately)*

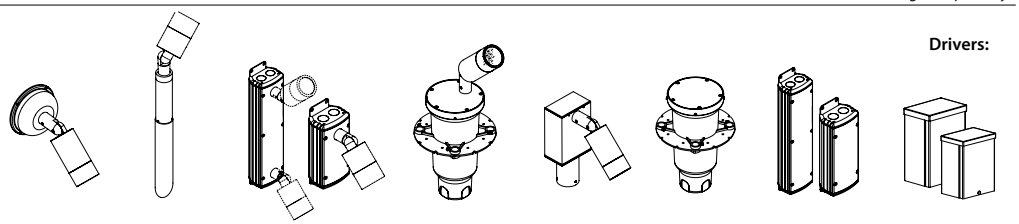
Mounting:



Power Pipe™ Canopies

Drivers *(Configure separately)*

Drivers:



Power Canopy™ Power Pipe™ PM2D & PM2 HP2 TMB HP2RM PM2DRM & PM2RM RM & DRM

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6).

Body
Fully machined from solid billet. Unibody design provides enclosed, water-proof wireway and integral heat sink for maximum component life. Integral knuckle for maximum mechanical strength. High temperature, silicone 'O' Ring provides water-tight seal.

Knuckle
Patented 360HD™ Mounting System features a mechanical taper-lock, which allows a full 180° vertical adjustment without the use of serrated teeth, which inherently limit aiming. High temperature, silicone 'O' Ring provides water-tight seal and compressive resistance to maintain fixture position. Design withstands 73 lb. static load prior to movement to ensure decades of optical alignment. ½" pipe thread for mounting. Biaxial source control additionally provides 360° horizontal rotation in addition to vertical adjustment. 'Aim-And-Lock' Technology allows precision adjustment without the redundant tightening and loosening of knuckle screw.

Cap
Fully machined. Accommodates [2] lens or louver media. Choose from 45° cutoff ('A' or 'D'), 1" deep bezel with 90° cutoff ('B' or 'E') or flush lens ('C') cap styles. 'A' and 'B' caps include weep-hole for water and debris drainage. 'D' and 'E' caps exclude weep-hole and are for interior use only.

Lens
Shock resistant, tempered, glass lens is factory adhered to fixture cap and provides hermetically sealed optical compartment.

BKSSL®
Integrated solid state system with 'x' technology is scalable for field upgrade. Modular design with electrical quick disconnects permit field maintenance.

LM-80 certified. Minimum 50,000 hour rated life at 70% of initial lumens (L70). BKSSL technology provides long life, significant energy reduction and exceptional thermal management.

Color Management
Corrected cold phosphor technology delivers near-perfect natural white light. Long term phosphor maintenance over product life. Exact color point conformity exceeds ANSI C78.377 standard. Provides uniform beam with no color variation over angle. Module exceeds 80 CRI (RA>80, R9>16).

Remote Driver
For use with remote LED driver. See remote driver submittal to determine remote distance and wiring requirements prior to detailing field installation of any remote wiring.

Optics
Interchangeable OPTIKIT™ modules permit field changes to optical distribution.

Wiring
Teflon® coated, 18AWG, 600V, 250° C rated and certified to UL 1659 standard.

Hardware
Tamper-resistant, stainless steel hardware. 360HD™ hardware is additionally black oxide treated for additional corrosion resistance.

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating.

Warranty
5 year limited warranty.

Certification and Listing
ITL tested to IESNA LM-79. Lighting Facts Registration per USDOE (www.lightingfacts.com). ETL Listed to ANSI/UL Standards 1598, 8750 and Certified to CAN/CSA Standard C22.2 No. 250. RoHs compliant. Suitable for indoor or outdoor use. Suitable for use in wet locations. Additionally suitable for installation within 4' of the ground. IP66 Rated. Made in USA.

®Teflon is a registered trademark of DuPont Corporation.
®Energy Star is a registered trademark of the United States Environmental Protection Agency.

B-K LIGHTING

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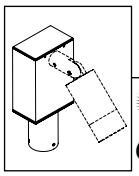
SUBMITTAL DATE	DRAWING NUMBER
12-16-14	SUB001113

360HD Patent is covered in whole or in part by U.S. Patent No. 6,161,948



BK SSL SOLID STATE LIGHTING

Constant Current Driver

THE POWER OF

TENON MOUNT BOX

PROJECT:	

TYPE:	
CATALOG NUMBER:	
LAMP(S):	
NOTES:	

CATALOG NUMBER LOGIC

	TMB				**MT**	
Example	**TMB**	**-**	**D42**	**-**	**MT**	

Series

TMB - Tenon Mount Box
(Specify Fixture Separately.)

Driver Type

For use with Incandescent Dimmer. 120V only for Dimming:

D18INC - 18W Dimming Driver
D29INC - 29W Dimming Driver

For use with 0-10 Dimmer:

D31 - 31W Dimming Driver *(Standard Dimming 1-100%)*
D42 - 42W Dimming Driver *(Standard Dimming 1-100%)*
D52 - 52W Dimming Driver *(Standard Dimming 10-100%)*
D31ARC - 31W Dimming Driver *(Architectural Dimming 0.1-100%)*
D42ARC - 42W Dimming Driver *(Architectural Dimming 0.1-100%)*

Input Voltage

MT - 120-277 VAC Input

DRIVER ELECTRICAL DATA

TYPE	AC INPUT RANGE	Frequency Hz	DIMMING	POWER FACTOR AT FULL LOAD	THD	OPER. AMBIENT TEMPERATURE	DIMMER TYPE	DIMMER RANGE
D18INC	120-277	50/60	YES	>0.94	≤5%	-30° C ~ 50°C	Incandescent	10-100%
D29INC	120-277	50/60	YES	>0.94	≤5%	-30° C ~ 50°C	Incandescent	10-100%
D31	120/208/240/277	50/60	YES	>0.9	≤20%	-20° C ~ 50°C	0-10V	1-100%
D42	120/208/240/277	50/60	YES	>0.9	≤20%	-20° C ~ 50°C	0-10V	1-100%
D52	120/208/240/277	50/60	YES	>0.9	≤20%	-30° C ~ 60°C	0-10V	10-100%
D31ARC	120/208/240/277	50/60	YES	>0.9	≤20%	-20° C ~ 50°C	0-10V	0.1-100%
D42ARC	120/208/240/277	50/60	YES	>0.9	≤20%	-20° C ~ 50°C	0-10V	0.1-100%

B-K LIGHTING

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SUBMITTAL DATE 12-16-14

DRAWING NUMBER SUB-2182-00

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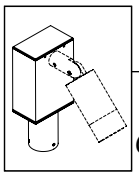


BK SSL SOLID STATE LIGHTING

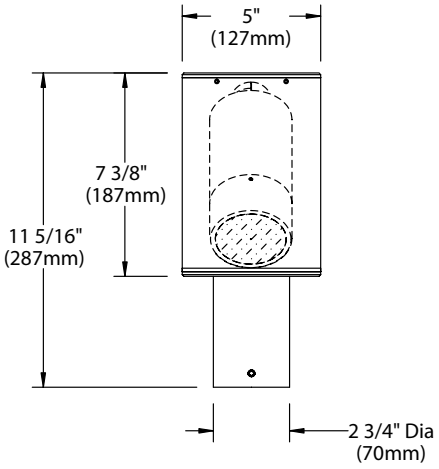
Constant Current Driver

THE POWER OF

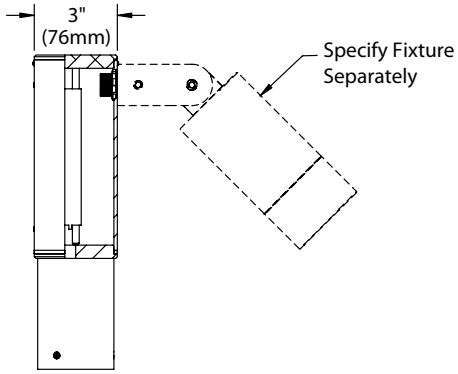
TENON MOUNT BOX

PROJECT:	
TYPE:	

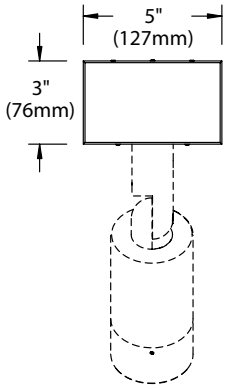
FRONT VIEW



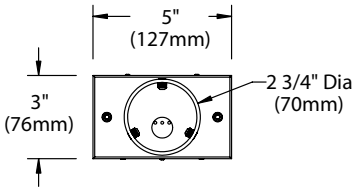
SIDE VIEW



TOP VIEW



BOTTOM VIEW



All dimensions indicated on this submittal are nominal.
Contact Technical Sales if you require more stringent specifications.

SPECIFICATIONS

GreenSource Initiative™
Metal and packaging components are made from recycled materials. Manufactured using renewable solar energy, produced on site. Returnable to manufacturer at end of life to ensure cradle-to-cradle handling. Packaging contains no chlorofluorocarbons (CFC's). Use of this product may qualify for GreenSource efficacy and recycling rebate(s). Consult www.bklighting.com/greensource for program requirements.

Materials
Furnished in Copper-Free Aluminum (Type 6061-T6).

Installation
For mounting to 2" IPS (2-3/8" O.D.) Tenon. Removeable bottom with Neoprene gasket. 2-1/2" I.D. slip fitter. Accepts 360SL™ and 360HD™ patented adjustable mounting systems, allows rotational adjustment with "O"-ring seal and tamperproof design.

Driver (18-29W)
For use with [1] 1.05A, Class A, constant current driver. 120-277VAC (nominal) primary input voltage. 50/60Hz. >0.94 Power Factor, <15.0A in-rush current, 0.25A input current, ≤20%THD (nominal at 120VAC full load). Output over-voltage, over-current, and short circuit protection with auto recovery. EMC: FCC47CFR Part 15 Class B compliant. Dimming driver for use with standard incandescent dimmers. 10-100% range.

Driver (31-52W)
[1] 1.05A (D31, D42) or 1.4A (D52), Class A, constant current driver. 120-277VAC (nominal) primary input voltage. 50/60Hz. >0.90 Power Factor, <15.0A in-rush current, ≤20%THD (nominal at 120VAC full load). Output over-voltage, over-current, and short circuit protection with auto recovery. EMC: FCC47CFR Part 15 Class B compliant. Dimming driver for use with standard 0-10V dimmers and switch controls. 0.1-100% range (Refer to driver electrical data).

Wiring / Connectors
Teflon® coated wire, 18 gauge, 600V, 250°C rated and certified to UL1659 standard. Pre-wired and labeled terminal strip

Finish
StarGuard®, our exclusive RoHs compliant, 15 stage chromate-free process cleans and conversion coats aluminum components prior to application of Class 'A' TGIC polyester powder coating. Finish to match fixture (specified separately.)

Warranty
5 year limited warranty.

Listings
ETL Listed to ANSI/UL Standard 50/50E and Certified to CAN/CSA Standard C22.2 No. 250. RoHs compliant. Made in USA.

Intertek MADE IN THE USA RoHS

B-K LIGHTING

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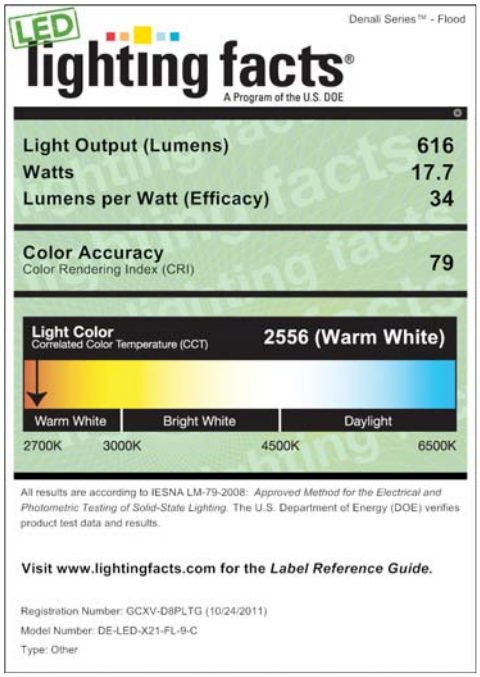
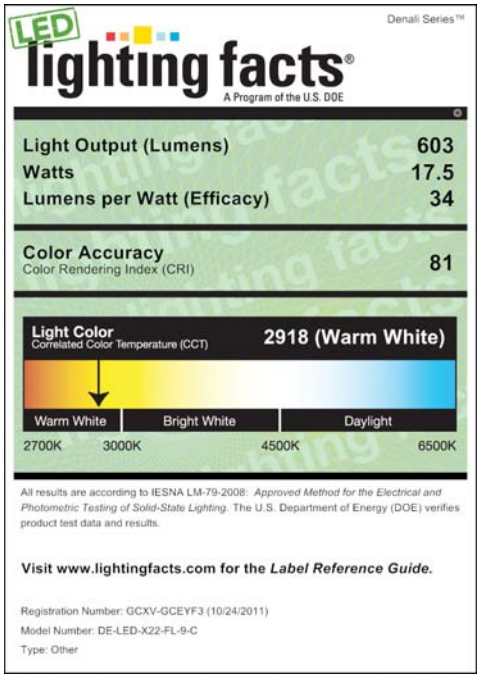
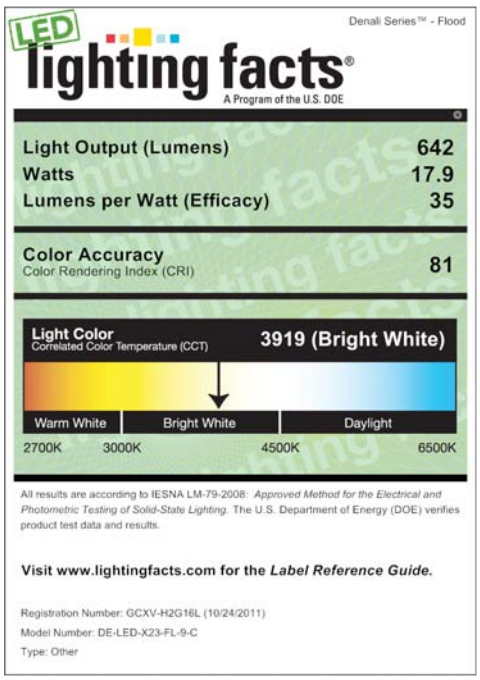
www.bklighting.com • info@bklighting.com

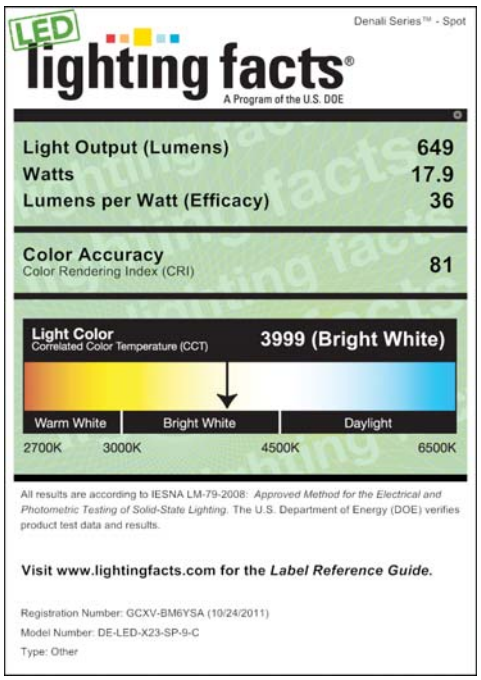
SUBMITTAL DATE	DRAWING NUMBER
12-16-14	SUB-2182-00

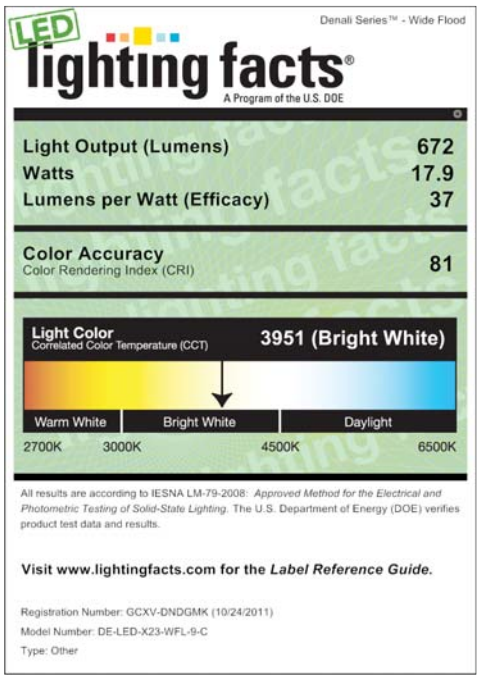
Precision2® and its features are covered in whole or in part by U.S. Patent Nos. 7,033,038; 6,254,258 B1; 7,249,867 B2; 7,370,988 B2; 7,553,042; 7,560,148; and 7,699,489

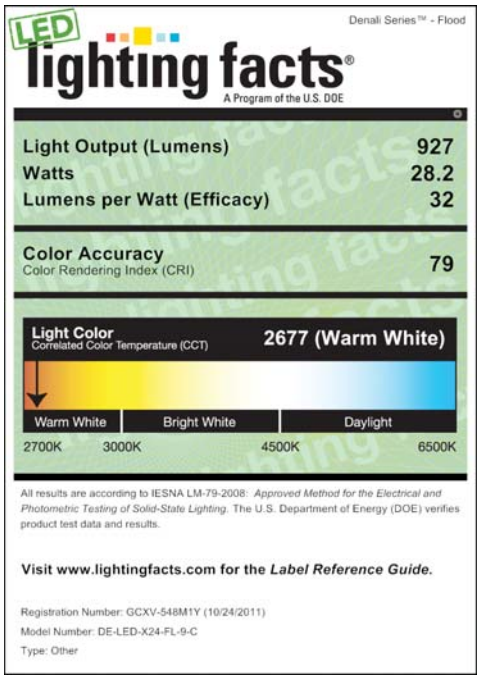

Denali Series™ - Flood
LED
lighting facts®
A Program of the U.S. DOE
Light Output (Lumens) 616
Watts 17.7
Lumens per Watt (Efficacy) 34
Color Accuracy
Color Rendering Index (CRI) 79
Light Color
Correlated Color Temperature (CCT) 2556 (Warm White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-D8PLTG (10/24/2011)
Model Number: DE-LED-X21-FL-9-C
Type: Other

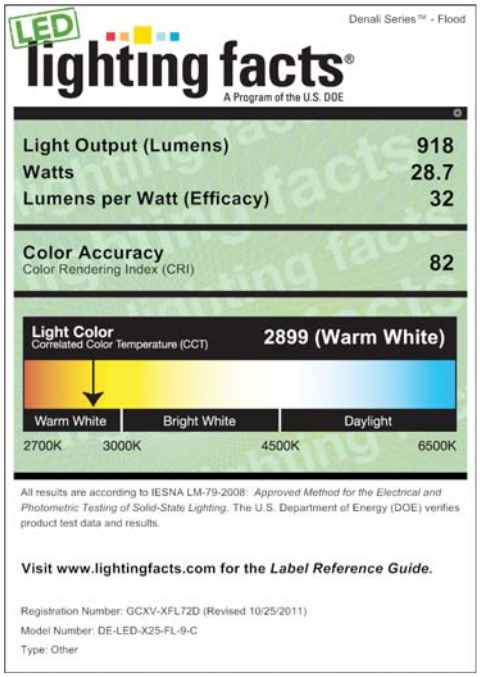

Denali Series™
LED
lighting facts®
A Program of the U.S. DOE
Light Output (Lumens) 603
Watts 17.5
Lumens per Watt (Efficacy) 34
Color Accuracy
Color Rendering Index (CRI) 81
Light Color
Correlated Color Temperature (CCT) 2918 (Warm White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-GCEYF3 (10/24/2011)
Model Number: DE-LED-X22-FL-9-C
Type: Other


Denali Series™ - Flood
LED
lighting facts®
A Program of the U.S. DOE
Light Output (Lumens) 642
Watts 17.9
Lumens per Watt (Efficacy) 35
Color Accuracy
Color Rendering Index (CRI) 81
Light Color
Correlated Color Temperature (CCT) 3919 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-H2G16L (10/24/2011)
Model Number: DE-LED-X23-FL-9-C
Type: Other

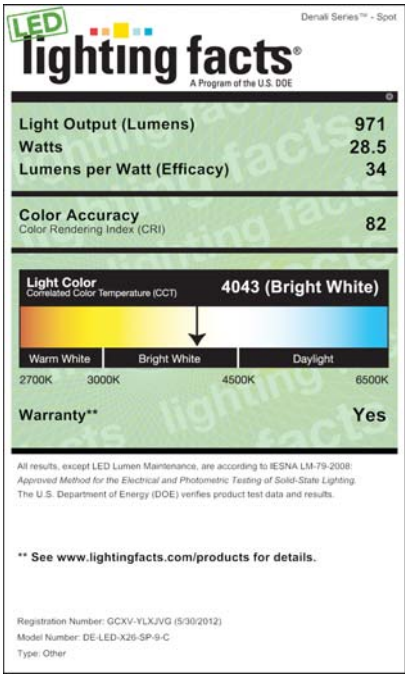

Denali Series™ - Spot
LED
lighting facts®
A Program of the U.S. DOE
Light Output (Lumens) 649
Watts 17.9
Lumens per Watt (Efficacy) 36
Color Accuracy
Color Rendering Index (CRI) 81
Light Color
Correlated Color Temperature (CCT) 3999 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-BM6YSA (10/24/2011)
Model Number: DE-LED-X23-SP-9-C
Type: Other


Denali Series™ - Wide Flood
LED
lighting facts®
A Program of the U.S. DOE
Light Output (Lumens) 672
Watts 17.9
Lumens per Watt (Efficacy) 37
Color Accuracy
Color Rendering Index (CRI) 81
Light Color
Correlated Color Temperature (CCT) 3951 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-DNDGMK (10/24/2011)
Model Number: DE-LED-X23-WFL-9-C
Type: Other


Denali Series™ - Flood
LED
lighting facts®
A Program of the U.S. DOE
Light Output (Lumens) 927
Watts 28.2
Lumens per Watt (Efficacy) 32
Color Accuracy
Color Rendering Index (CRI) 79
Light Color
Correlated Color Temperature (CCT) 2677 (Warm White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-548M1Y (10/24/2011)
Model Number: DE-LED-X24-FL-9-C
Type: Other


LED
lighting facts®
A Program of the U.S. DOE
Denali Series™ - Flood
Light Output (Lumens) 918
Watts 28.7
Lumens per Watt (Efficacy) 32
Color Accuracy
Color Rendering Index (CRI) 82
Light Color
Correlated Color Temperature (CCT) 2899 (Warm White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
All results are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
Visit www.lightingfacts.com for the Label Reference Guide.
Registration Number: GCXV-XFL72D (Revised 10/25/2011)
Model Number: DE-LED-X25-FL-9-C
Type: Other

LED
lighting facts®
A Program of the U.S. DOE
Denali Series™ - Flood
Light Output (Lumens) 954
Watts 28.5
Lumens per Watt (Efficacy) 33
Color Accuracy
Color Rendering Index (CRI) 82
Light Color
Correlated Color Temperature (CCT) 3972 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
Warranty** Yes
All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
** See www.lightingfacts.com/products for details.
Registration Number: GCXV-PMJYG7 (5/30/2012)
Model Number: DE-LED-X26-FL-9-C
Type: Other


LED
lighting facts®
A Program of the U.S. DOE
Denali Series™ - Spot
Light Output (Lumens) 971
Watts 28.5
Lumens per Watt (Efficacy) 34
Color Accuracy
Color Rendering Index (CRI) 82
Light Color
Correlated Color Temperature (CCT) 4043 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
Warranty** Yes
All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
** See www.lightingfacts.com/products for details.
Registration Number: GCXV-YLXJVG (5/30/2012)
Model Number: DE-LED-X26-SP-9-C
Type: Other

LED
lighting facts®
A Program of the U.S. DOE
Denali Series™ - Spot Rectilinear
Light Output (Lumens) 1027
Watts 28.5
Lumens per Watt (Efficacy) 36
Color Accuracy
Color Rendering Index (CRI) 82
Light Color
Correlated Color Temperature (CCT) 4014 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
Warranty** Yes
All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
** See www.lightingfacts.com/products for details.
Registration Number: GCXV-4H11T8 (5/30/2012)
Model Number: DE-LED-X26-SP-13-C
Type: Other

LED
lighting facts®
A Program of the U.S. DOE
Denali Series™ - Wide Flood
Light Output (Lumens) 1005
Watts 28.5
Lumens per Watt (Efficacy) 35
Color Accuracy
Color Rendering Index (CRI) 83
Light Color
Correlated Color Temperature (CCT) 4005 (Bright White)
Warm White
Bright White
Daylight
2700K 3000K 4500K 6500K
Warranty** Yes
All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008: Approved Method for the Electrical and Photometric Testing of Solid-State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.
** See www.lightingfacts.com/products for details.
Registration Number: GCXV-XKPAH1 (5/30/2012)
Model Number: DE-LED-X26-WLF-9-C
Type: Other