# LS192LED Grevillea LS192-2LED Double Grevillea

# At Grade

IP65



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The Grevillea is an excellent option for delivering light on the ground plane, or for feature accent lighting without obstruction from low level plantings. Aim and tilt adjustability, a choice of finishes and long service life are all part of the package. The Grevillea also features new Lumascape d5 driver technology as a standard inclusion, providing a high level of control: When high output is required, it can be deployed in its full output, 6 W configuration; If a lower level of light is required, it can be set as low as 0.6 W, (either by the factory or in the field).

### Specifications

Specifications	
Lamp Source	6 W or 2 x 6 W LED  ☐ White (4 300 K typical)  ☐ Warm white (3 000 K typical)  ☐ Blue (470 nm)
Approved Use	Suitable for wet locations
Control Options	0-10 V (current sourcing) PWM On-site or factory-programmable brightness
IP Rating	IP65
Construction	Powder coated aluminum  ■ Black ■ Silver Polished copper
Installation Type	Spike mount
Remote Transformers / Power Supplies Order separately	Refer to Technical Data section for application specific options
Ambient Operating Temperature	-4 °F to 104 °F (-20 °C to 40 °C)
Photometrics	Refer to www.lumascape.com

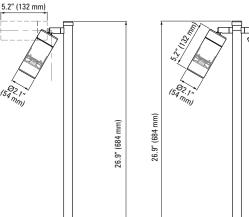
Any luminaire can become hot - take care with appropriate use and placement





LS192-2LED Double Grevillea

LS192LED Grevillea

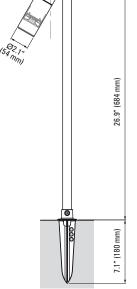


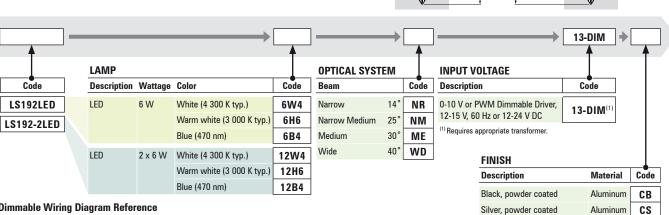
7.1" (180

Polished

Copper

CU





#### **Dimmable Wiring Diagram Reference**

Input Voltage	LED Color	Control Type	Wiring Diagram
13-DIM	Single Color	PWM	2,3,4

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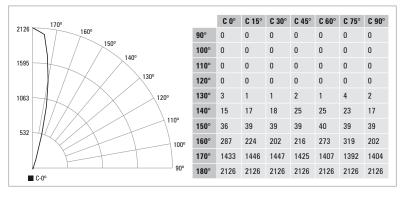
### **Photometrics**

Photometric data is based on test results from a NIST traceable testing lab. IES data is available at www.lumascape.com. Note: No depreciation factor is applied to the data shown.

### Polar Candela Distribution

# LS192LED LS192-2LED 4 300 K 25° Beam Angle

Power Input	7.1
Lumens	403
Efficacy	57 lm/W



### Illuminance at a Distance

ft	Center Beam fc	Beam Ø
5	85	2 ft
10	21.3	4 ft
15	9.4	7 ft
25	3.4	11 ft
30	2.4	13 ft
40	1.3	18 ft
50	0.9	22 ft

### Polar Candela Distribution

# LS192LED LS192-2LED 4 300 K 30° Beam Angle

Power Input	6.9
Lumens	365
Efficacy	53 lm/W

1184		C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
160°	90°	0	0	0	0	0	0	0
140°	100°	0	0	0	0	0	0	0
888	110°	0	0	0	0	0	0	0
130°	120°	0	0	0	0	0	0	0
592	130°	3	3	3	3	3	3	4
1100	140°	19	18	16	16	18	20	23
296	150°	81	89	96	94	88	87	89
100°	160°	315	326	333	334	333	333	333
	170°	821	834	841	841	841	839	850
<b>■</b> C-0°	180°	1184	1184	1184	1184	1184	1184	1184

#### Illuminance at a Distance

ft	Center Beam fc	Beam Ø
5	47.4	3 ft
10	11.8	5 ft
15	5.3	8 ft
25	1.9	13 ft
30	1.3	16 ft
40	0.7	21 ft
50	0.5	27 ft

### Polar Candela Distribution

# LS192-2LED 4 300 K 40° Beam Angle

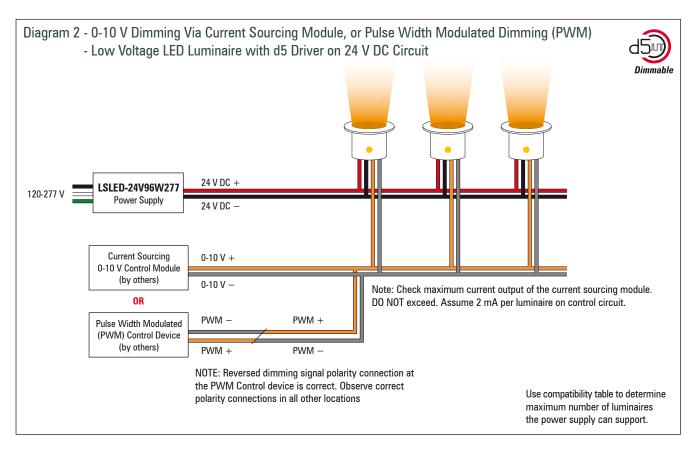
LS192LED

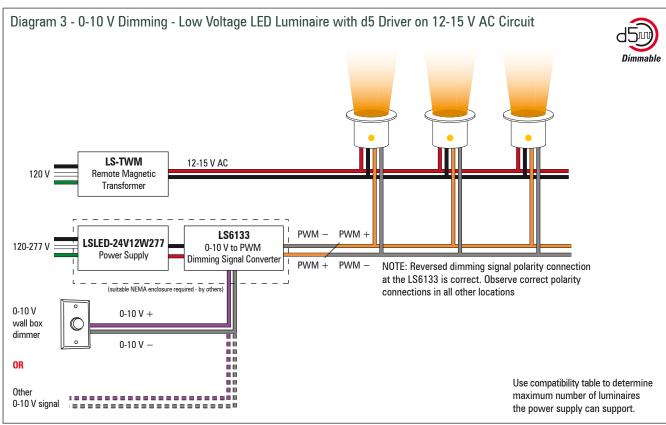
Power Input	7.5
Lumens	359
Efficacy	48 lm/W

170°		C 0°	C 15°	C 30°	C 45°	C 60°	C 75°	C 90°
160°	90°	0	0	0	0	0	0	0
140°	100°	0	0	0	0	0	0	0
436	110°	0	0	0	0	0	0	0
130°	120°	1	1	1	1	0	0	0
290 120°	130°	16	15	13	12	12	13	14
110°	140°	51	48	44	41	41	45	48
145	150°	147	140	129	121	119	123	127
100°	160°	336	325	312	300	291	287	286
	170°	523	517	512	506	501	498	497
© C-0°	180°	581	581	581	581	581	581	581

### Illuminance at a Distance

ft	Center Beam	fc	Beam Ø	
5	23.2		4 ft	
10	5.8		7 ft	
15	2.6		11 ft	
25	0.9		18 ft	
30	0.6		22 ft	
40	0.4		29 ft	
50	0.2		36 ft	





NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary devices. These diagrams are <u>not</u> intended to show type or color of cord/wire, wire gauge or approved use of the cord/wire supplied with luminaires.

Consult the luminaire-specific cutsheet or the factory for detailed specifications.

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Diagram 4 - 0-10 V Dimming - Low Voltage LED Luminaire with d5 Driver on 24 V DC Circuit 24 V DC + LSLED-24V96W277 120-277 V **Power Supply** 24 V DC LS6133 PWM -PWM + 0-10 V to PWM **Dimming Signal Converter** PWM -NOTE: Reversed dimming signal polarity connection (suitable NEMA enclosure required - by others) at the LS6133 is correct. Observe correct polarity connections in all other locations 0-10 V wall box dimmer OR Use compatibility table to determine Other maximum number of luminaires 0-10 V signal the power supply can support.

NOTE: The above diagrams are intended to show electrical pathways between luminaires and ancillary devices. These diagrams are <u>not</u> intended to show type or color of cord/wire, wire gauge or approved use of the cord/wire supplied with luminaires.

# Transformers and Power Supplies for Low Voltage LED Luminaires

The following list of transformers and power supplies are for use with luminaires specifically described as being compatible with either 12 V AC (wirewound only) transformers or with 12-24 V DC power supplies. Compatibility will be noted in the ordering code of the luminaire concerned, and will typically be referenced by Voltage Code '13' or '13-DIM'. In the case of '13-DIM' additional components may be required. Refer to the applicable wiring diagram/s.

Compatibility with each transformer or power supply is indicated by the value mentioned, representing the maximum number of luminaires that may be powered from each transformer or power supply. Please note, this does not take into consideration voltage drop or ampacity limits of the branch circuit. For assistance, please contact factory.

	Wall Mounted Landscape Lighting Transformers				Wall Mounte	d Transformers	Class 2 Power Supply	Direct Burial Transformer	
	LS-TWM-1-300	LS-TWM-2-600	LS-TWM-3-900	LS-TWM-50	LS-TWM-50 LS-TWM-100 LS-TWM-150 LS-TWM-250				LS-TDB1-300
Input Voltage	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120 V, 60 Hz	120-277 V, 50/60 Hz	120 V, 60 Hz
Output Voltage	12/13/14/15 V 60 Hz	12/13/14/15 V 60 Hz	12/13/14/15 V 60 Hz	12 V, 60 Hz	12 V, 60 Hz	12 V, 60 Hz	12 V, 60 Hz	24 V DC	12.5 V, 60 Hz
Wattage	1 x 300 W circuit	2 x 300 W circuits	3 x 300 W circuits	50 W	100 W	150 W	250 W	96 W	300 W
LS192LED	23	46	69						23
LS192-2LED	11	23	34						11

# Transformers for Landscape Lighting Applications

## LS-TWM-1-300

Magnetic transformer - wall mounted

Input	120 V
Rating	300 W
Output	12/13/14/15 V
<b>Output Circuits</b>	1
Protection	Electrostatic shield, magnetic breaker
Approvals	UL, CUL
NEMA Rating	3R
Construction	Stainless steel
Dimensions	<b>H</b> 17.6" (447 mm) <b>W</b> 6.8" (173 mm) <b>D</b> 6.19" (157 mm)
Weight	27 lb (12.3 kg)

## LS-TWM-3-900

Magnetic transformer - wall mounted

Input	120 V
Rating	900 W
Output	12/13/14/15 V
<b>Output Circuits</b>	3
Protection	Electrostatic shield, magnetic breaker
Approvals	UL, CUL
<b>NEMA Rating</b>	3R
Construction	Stainless steel
Dimensions	<b>H</b> 18.6" (472 mm) <b>W</b> 7.8" (198 mm) <b>D</b> 6.19" (157 mm)
Weight	34 lb (15.5 kg)

### LS-TWM-2-600

Magnetic transformer - wall mounted

Input	120 V
Rating	600 W
Output	12/13/14/15 V
<b>Output Circuits</b>	2
Protection	Electrostatic shield, magnetic breaker
Approvals	UL, CUL
NEMA Rating	3R
Construction	Stainless steel
Dimensions	<b>H</b> 17.6" (447 mm) <b>W</b> 6.8" (173 mm) <b>D</b> 6.19" (157 mm)
Weight	29 lb (13.2 kg)

## LS-TDB1-300

Magnetic transformer - direct burial

Input	120 V		
Rating	300 W		
Output	12.5 V		
<b>Output Circuits</b>	1		
Protection	Circuit breaker		
Approvals	ETL (US and Canada)		
NEMA Rating	12		
Construction	Reinforced composite		
Dimensions	<b>H</b> 9" (229 mm)	<b>W</b> 9" (229 mm)	<b>D</b> 7" (178 mm)
Weight	8 lb (3.6 kg)		

# **Control Related Equipment**

# LS6133

0-10 V to PWM translator - NEMA enclosure required (by others)

24 V DC		
96 W max		
4 A max		
1		
UL, CUL Recognized, Class 2		
IP66		
<b>H</b> 5.2" (132 mm)	W 1.3" (33 mm)	<b>D</b> 1" (25 mm)
0.2 lb (0.1 kg)		
	96 W max 4 A max 1 UL, CUL Recognized IP66 H 5.2" (132 mm)	96 W max 4 A max 1 UL, CUL Recognized, Class 2 IP66 H 5.2" (132 mm) W 1.3" (33 mm)

# LS67100

DMX to PWM translator - dry location only

24 V DC
4 x 60 W max
4 x 2.5 A max
4
UL, CUL
N/A
<b>H</b> 11.25" (286 mm) <b>W</b> 4.6" (117 mm) <b>D</b> 3.2 (82 mm)
0.5 lb (0.2 kg)