AL SERIES AREA LIGHT

CALCULATED LIFETIME

100,000 HOURS

Finish Color

Dark Bronze   White

AL Series LED Area Light luminaries provide substantial energy savings through efficient delivery of light into all large areas. Capable of producing up to 51,100 lumen's, delivered into IES types 3, 4 or 5-Square.

Applications: parking lots, walkways, roadways and building areas, etc.

Replacement: ALS:175W- 250W MH, **ALM:** 400W MH, **ALL: 750W**-1000W MH+

PERFORMANCE INFORMATION

SERIES NUMBER	POWER	LUMENS	DISTRIBUTION	CCT
ALS 90 T3 G1 5K	70 Watts	9,000 Lm	Type 3	5000K
ALS 130 T3 G1 5K	105 Watts	13,400 Lm	Type 3	5000K
ALM 195 T3 G2 5K	150 Watts	19,700 Lm	Type 3	5000K
ALM 195 T3 G2 HVU 5K	150 Watts	19,700 Lm	Type 3	5000K
ALM 260 T3 G2 5K	200 Watts	26,200 Lm	Type 3	5000K
ALM 260 T3 G2 HVU 5K	200 Watts	26,380 Lm	Type 3	5000K
ALL 330 T3 G2 5K	250 Watts	33,250 Lm	Type 3	5000K
ALL 330 T3 G2 HVU 5K	250 Watts	33,250 Lm	Type 3	5000K
ALL 390 T3 G2 5K	300 Watts	39,300 Lm	Type 3	5000K
ALL 390 T3 G2 HVU 5K	300 Watts	39, 300 Lm	Type 3	5000K

SPECIFICATIONS

HOUSING
Precision die-cast aluminum housings with integral heat-sink fins. Parting lines dressed for high quality finish

AMBIENT TEMPERATURE
Suitable for use in -40°C to +45°C (-40°F to 113°F)

MOUNTING
Rigid direct-pole mounting arm. Arm mount, Slipfitter, or Wall mount.

EFFICACY
Up to 146 lumen's per watt (see individual wattage data)

CCT AND CRI
4000K and 5000K CCT available; 70CRI

OPTICS
Precision molded secondary optics produce superior uniformity, minimal light trespass and maximum pole spacing. Optics sealed to LED package for IP66 protection.

WARRANTY
10 year limited warranty. Complete warranty terms located at:

www.slgus.com

ELECTRICAL
Voltage: 120/277V standard. 347V-480V optional.
Class 2 Constant Current Drivers with 90% power factor, <20% THD. Driver efficiency (>90% standard); 50/60Hz; Open/short circuit protection; 10K Surge protector per ANSI/IEEE C62.41.2; NEMA twist lock photocell control optional. Dimming 0-10V driver optional. Motion sensor (PIR) optional

FINISH
Polyester Powder Dark Bronze or White finish. Multi-stage process produces 3 mil thickness for superior corrosion resistance and maximum durability.

CERTIFICATIONS
UL Listed for wet locations. Equivalent to IP66 rating. FCC compliant. RoHs compliant. IDA dark-sky compliance.

DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at www.slgus.com/DLC to confirm which versions are qualified.

ORDERING GUIDE

EXAMPLE: ALS 90 T3 G1 5K SPAR

Luminaire Type	Lumen Output*	Distribution Type	Generation	Voltage	CCT	Mounting	Finish*	Options
ALS Small LED Area Light	**ALS** **90** 9,000 Lumens **130** 13,400 Lumens	**T3** Type 3	**G1**	**Standard** 120-277V	**4K** 4000K **5K** 5000K	**SPAR** Arm Mount **SFD** Adjustable Slipfitter Mount **WM** Wall Mount **SFD-P1** Slipfitter with Photocell **AL-T** Trunnion*** **AL-Y** Yoke Mount***	**Standard:** **Blank** Dark Bronze	**Standard** No Option **N** NEMA Twist-lock Photocell **N7** NEMA Seven-Pin Photocell **M** (FSP-212) Motion Sensor **AL-BC-S** ALS House side shield **AL-BC-ML** ALM-ALL House side shield
ALM Medium LED Area Light	**ALM** **195** 19,700 Lumens **260** 26,200 Lumens	**T3** Type 3 **T4** Type 4 **T5** Type 5	**G2**	**Standard** 120-277V **HVU**** 347-480V			**Custom:** **W** White*	
ALL Large LED Area Light	**ALL** **330** 33,250 Lumens **390** 39,300 Lumens							

NOTE: Data as report to DLC, actual test results may vary.
Lumen's for Type 3, other patterns may have different lumen outputs.

Please contact SLG agent for informations on Mounting, Finish options, and Options inventory.
*For any Finish color other then Dark Bronze, please call for custom order.
*** Photocell not available for this type of mounting

PERFORMANCE INFORMATION
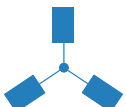
SERIES NUMBER	POWER	LUMENS	DISTRIBUTION TYPE	B	U	G	LUMENS	B	U	G
				5000 K CCT			**4000K CCT**			
ALS 90 T3 G1 5K	70 Watts	9,000 Lm	Type 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALS 130 T3 G1 5K	105 Watts	13,400 Lm	Type 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
ALM 195 T3 G2 5K	150 Watts	19,700 Lm	Type 3	3	0	2	19,500 Lm	3	0	2
		18,800 Lm	Type 4	3	0	3	18,800 Lm	3	0	3
		21,150 Lm	Type 5	4	0	2	21,000 Lm	4	0	2
ALM 260 T3 G2 5K	200 Watts	26,200 Lm	Type 3	3	0	2	26,000 Lm	3	0	2
		25,000 Lm	Type 4	3	0	3	25,000 Lm	3	0	3
		27,200 Lm	Type 5	4	0	2	27,000 Lm	4	0	2
ALL 330 T3 G2 5K	250 Watts	33,250 Lm	Type 3	4	0	3	33,000 Lm	4	0	3
		30,500 Lm	Type 4	4	0	3	30,000 Lm	4	0	3
		35,250 Lm	Type 5	5	0	2	35,000 Lm	5	0	2
ALL 390 T3 G2 5K	300 Watts	39,300 Lm	Type 3	4	0	3	39,000 Lm	4	0	3
		37,000 Lm	Type 4	4	0	4	36,000 Lm	4	0	4
		42,300 Lm	Type 5	5	0	2	42,000 Lm	5	0	2

ELECTRICAL LOAD

	Series Number	Wattage	**Current (A)**					
			120V	208V	240V	277V	347V	480V
ALS	ALS 90 T3 G1 5K	70 Watts	0.58	0.34	0.30	0.25	N/A	N/A
	ALS 130 T3 G1 5K	105 Watts	0.87	0.50	0.44	0.38	N/A	N/A
ALM	ALM 195 T3 G2 5K	150 Watts	1.25	0.72	0.63	0.54	0.43	0.31
	ALM 195 T3 G2 HVU 5K	150 Watts	1.25	0.72	0.63	0.54	0.43	0.31
	ALM 260 T3 G2 5K	200 Watts	1.66	0.96	0.83	0.72	0.58	0.42
	ALM 260 T3 G2 HVU 5K	200 Watts	1.66	0.96	0.83	0.72	0.58	0.42
ALL	ALL 330 T3 G2 5K	250 Watts	2.08	1.20	1.04	0.90	0.72	0.52
	ALL 330 T3 G2 HVU 5K	250 Watts	2.08	1.20	1.04	0.90	0.72	0.52
	ALL 390 T3 G2 5K	300 Watts	2.5	1.44	1.25	1.08	0.87	0.62
	ALL 390 T3 G2 HVU 5K	300 Watts	2.5	1.44	1.25	1.08	0.87	0.62

EPA OF AREA LIGHT

	Item	Watt	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
	AL								
S	ALS90/ALS130	70W/105W	0.626	0.705	0.971	0.981	0.982	0.975	0.982
M	ALM195/ALM260	150W/200W	0.4418	0.7145	0.8813	0.8836	1.0548	1.0135	1.0548
L	ALL330/ALL390	250W/300W	0.5614	0.8471	1.105	1.1228	1.294	1.2503	1.294

DIMENSIONS

70W&105W（SLIPFITTER MOUNT）

12.4in
1.256in
19.73in
3.07in
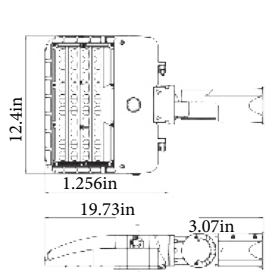
Weight:
70W:11 lb
105W: 11.40 lb

70W&105W（POLE MOUNT）

11.25in
12.40in
3.63in
3.07in
18.44in
6.98in
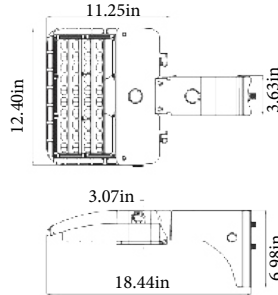
Weight:
70W:11.8 lb
105W: 11.98 lb

70W&105W（WALL MOUNT）

11.25in
12.40in
3.54in
5.98in
3.07in
18in
7.99in
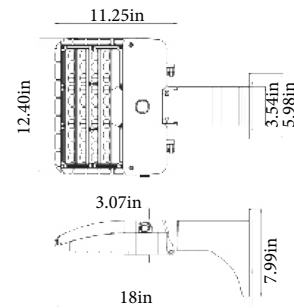
Weight:
70W:13.45 lb
105W: 13.84 lb

150W&200W（SLIPFITTER）

24.258in
12.99in
3.15in
2.4in
15.787in
2.8in
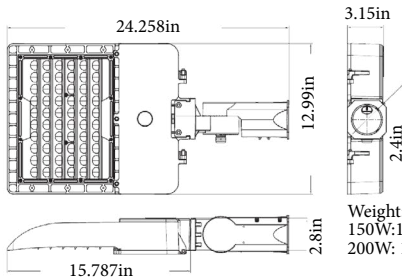
Weight:
150W:16.308 lb
200W: 16.526 lb

150W&200W（POLE MOUNT）

22.23in
12.99in
3.55in
3.15in
2.8in
15.787in
2.8in
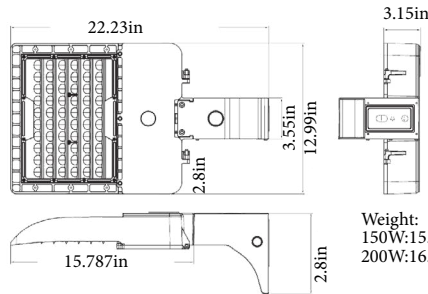
Weight:
150W:15.783 lb
200W:16.001 lb

150W&200W（WALL MOUNT）

22.46in
3.54in
12.99in
5.98in
3.15in
6.5in
4.8in
2in
1in
4in
15.787in
6.97in
7.99in
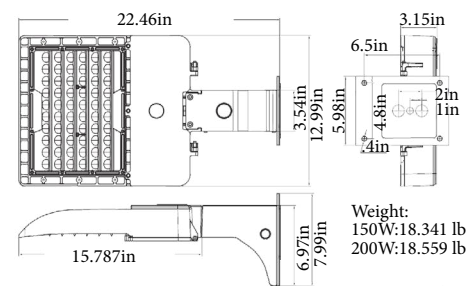
Weight:
150W:18.341 lb
200W:18.559 lb

250W&300W&350W（SLIPFITTER）

33.5in
13.39in
3.15in
2.4in
25.04in
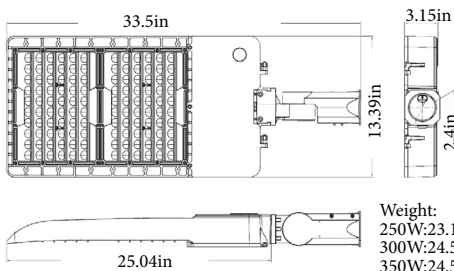
Weight:
250W:23.104 lb
300W:24.515 lb
350W:24.515 lb

250W&300W&350W（POLE MOUNT）

31.48in
13.39in
3.15in
3.55in
25.04in
6.97in
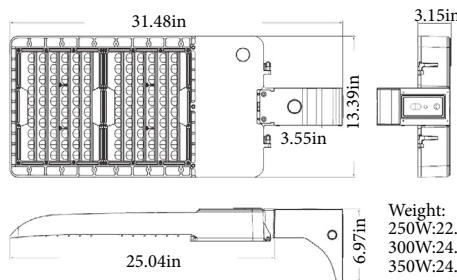
Weight:
250W:22.686 lb
300W:24.097 lb
350W:24.097 lb

250W&300W&350W（WALLMOUNT）

31.78in
13.39in
3.55in
3.15in
6.5in
5.98in
4.8in
2in
1in
4in
25.04in
6.97in
7.99in
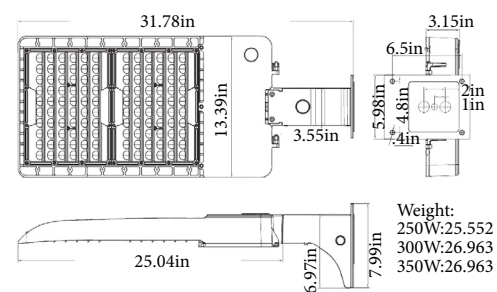
Weight:
250W:25.552 lb
300W:26.963 lb
350W:26.963 lb

SLG Lighting
10643 W. Airport Blvd. Suite 400, Stafford , Texas 77477
Email: support@slgus.com | Phone: (832) 939-8412 | www.slgus.com

AL.V18.18

PROJECTED LUMINAIRE MAINTENANCE

Ambient Temperature	OPERATING HOURS				Calculated L70 (Hours)
	0	25,000	50,000	100,000	
25°C/ 77°F	1	0.95	0.91	0.81	>214,973

Ambient Temperature		Lumen Multiplier
0°C	32°F	1.02
10°C	50°F	1.01
20°C	68°F	1.00
25°C	77°F	1.00
30°C	86°F	0.98
40°C	104°F	0.98

Data references the extrapolated performance projections for the area light base model noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11)

LUMEN AMBIENT TEMPERATURE (LAT) MULTIPLIERS:

Use these factors to determine relative lumen output for average ambient temperatures from 0°C-40°C (32°F-104°F)

PERFORMANCE COMPARISON

	Product Series	LED Watts	Lumen Output	Lumens Per/Watt	REPLACES	Voltage	Max. Mounting Height	DLC
	ALS 90	70W	9,000 Lm	129 Lm/W	175W	120-277V	15-20Ft	DLC QPL LISTED
	ALS 130	105W	13,400 Lm	128 Lm/W	250W	120-277V	15-20Ft	DLC QPL LISTED
	ALM 195	150W	19,700 Lm	131 Lm/W	400W	120-277V	20-30Ft	DLC QPL LISTED PREMIUM
	ALM 260	200W	26,200 Lm	131 Lm/W	400W	120-277V	20-30Ft	DLC QPL LISTED PREMIUM
	ALL 330	250W	33,250 Lm	133 Lm/W	750W	120-277V	30-50Ft	DLC QPL LISTED PREMIUM
	ALL 390	300W	39,300 Lm	131 Lm/W	1000W	120-277V	30-50Ft	DLC QPL LISTED PREMIUM

Area Light
Motion Sensor

Wattstopper

SENSOR

The Wattstopper offer an extensive line of both indoor and outdoor occupancy sensors utilizing a variety of sensing technologies to ensure optimal performance in any environment.
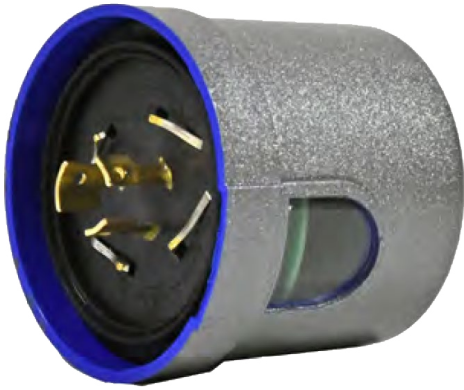
Benefits:
- Comply with energy codes such as Title 24, ASHRAE 90.1, IECC, and other energy codes.
- Enhance green building practices, such as LEED.
- Operating Humidity: 20-90%.
- Operating temperature: -40–167°F (-40–75°C)
- IP66 rated
- Polycarbonate, flame retardant, UV resistant, impact resistant.
- Meets the materials restrictions of RoHS.

Motion Sensor Setting

Motion Sensor	Day Lighting Control	High / Low Dim	Time Delay	Auto On	Auto Off	Load Rating	Current Consumption	Operating Temperature
FSP-212	Yes	Low Dim	30 Sec- 30 min	5 fc	10 fc	1/6hp	10mA	-40°F - 158°F

SMART WIRELESS CONTROL NODE

FEATURES:
- Real time measure and transfer of input Voltage, Amperage, Wattage, Power
Factor, KWH and Hours of operation
- Dim LED fixtures via standard 0-10V dimming interface
- Self-forming and self-healing mesh network with secure encrypted communication
- Smart Wireless Control Node and G5 Smart Gateway can be spaced up to 600m
apart (Clear Line of Sight) or up to 2000m with replay
- Designed to UL 916 standards
- Inrush Current Limiting at Turn On
- IP65 rated
- Automatically download programmed schedules
- Controlled by an G5 Smart Gateway and fully integrated into G5 Smart Software Platform
- AES Encryption and Certificate Based Authentication
- 5 year warranty standard, 10 year extended warranty available

APPLICATIONS:
- Smart City
- Parking Lots
- Private Roadways
- Public Streets & Highways
- College & Corporate Campus Walkways
- Shopping Malls & Centers

WIRELESS NETWORK:
- IEEE 802.15.4 2.4GHz ISM
- Range: 600 + meters LOS transmit/ receive

ELECTRICAL:
- Operating Voltage: 120-277VAC, 347VAC, 480VAC
- Operating Current: 75mA max .
- Switching Capacity: 2.5A max @480VAC

ACCURACY
- Real Power and Energy: 2%
- Reactive Power and Energy: IEC 62053-23 Class 2, 2%Current
- Current: 0.8%
- Voltage: 0.4% (+0.015% per °C deviation from 25°C
- 108VL -N to 528VAC -L

ENVIRONMENTAL:
- Operating Temperature: -30 °C to 60 °C -22 °F to 158 °F)
- Storage Temperature: -40 °C to 85 °C -40 °F to 185 °F)
- Humidity Range: <95% Relative Humidity, non-condensing
- Altitude of Operation: 3KM max

G5 SMART GATEWAY

FEATURES:
- Self-forming and self healing mesh network with secure
encrypted communication
- Support Wi-Fi or 3/4G Mobile network
- Smart photocell and gateway can be spaced up to
600m apart (Clear Line of Sight) or up to 2000m apart
with relay
- Can control up to 80 G5 smart photocells
- Storage of up to 30 days data in local memory
- Automatically synchronize data in local memory with
server once network is recovered
- Designed to comply with UL773 standards
- IP65 rated
- Standard 5-year Warranty
- Built-in surge protection
- Designed in the USA

APPLICATIONS:
- Smart City
- Parking Lots
- Private Roadways
- Public Streets & Highways
- College & Corporate Campus Walkways
- Jogging & Bike Pathways

WIRELESS NETWORK:
- Network: IEEE 802.15.4-2003 2.4GHz ISM
- Range: 600 + meters LOS transmit/ receive
- Back haul Communication: Wifi, 3/4G CDMA, LTE
- Comply with FCC Part 15

ELECTRICAL:
- Operating Voltage: 120-277VAC, 347VAC, 480VAC
- Operating Current: 75mA max.
- Switching Capacity: 2.5A max. @ 480VAC
- Surge: Meets ANSI, 10KV, 3KA Combination Wave

ENVIRONMENTAL:
- Operating Temperature: -30 ° to 60 ° C (-22 ° to 158°F)
- Storage Temperature: -40 ° to 85° C (-40 ° to 185° F)
- Humidity Range: <95% Relative Humidity, noncondensing
- Altitude of Operation: 3 km max

PHOTOMETRIC

SLG offers a complete set of optical system to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements. (See ordering guide.)

TYPE 3:

Type 3 optics produce an asymmetrical pattern that directs the majority of the light forward and equally on both sides of the luminaire. In a back-to-back configuration, it creates a rectangular pattern which can extend pole spacings.
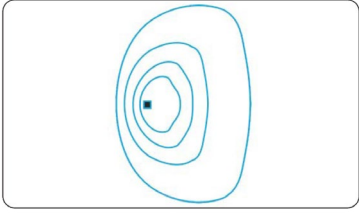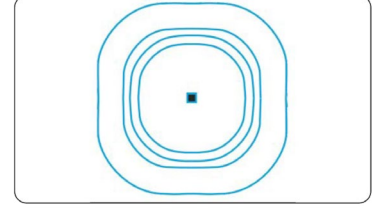
TYPE 4:

Type 4 is suitable for applications where light is primarily required forward with minimal back light. Typical installations include perimeter poles.
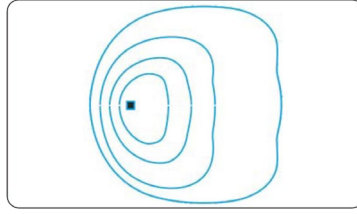
TYPE 5:

Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications

MOUNTING OPTIONS

ARM MOUNT (SPAR)
(SQUARE OR ROUND POLES)

Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.

SLIP-FITTER MOUNT (SFD)

An optional cast aluminum mast arm adapter secures fixture head to nominal 2"(2-3/8"O.D. pipe size) horizontal steel tenon arm.
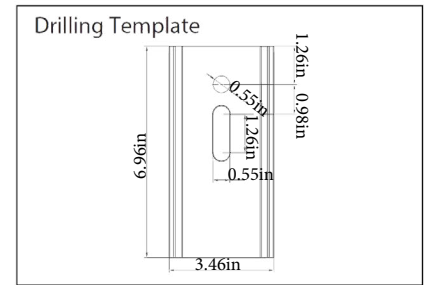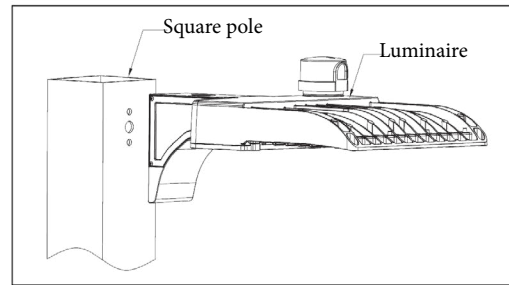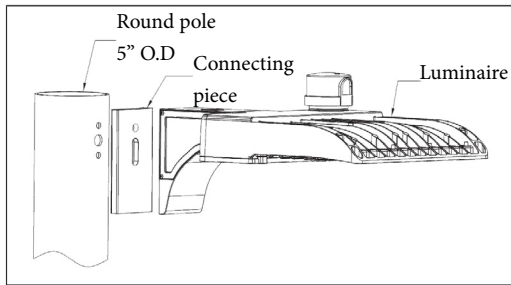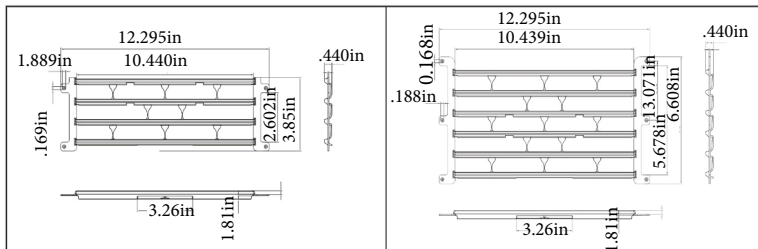
WALL MOUNT (WM)

Wall Mount is easy to install for direct wall mounting with 1/2' conduit wiring or standard J-box mounting

MOUNTING DIMENSIONS

Round pole
5" O.D
Connecting piece
Luminaire

Square pole
Luminaire

Drilling Template
1.26in
0.55in
0.98in
1.26in
6.96in
0.55in
3.46in

BACKLIGHT CONTROL ACCESSORIES

12.295in
1.889in
10.440in
.440in
.169in
2.602in
3.85in
3.26in
1.81in

0.168in
12.295in
10.439in
.440in
.188in
13.071in
6.608in
5.678in
3.26in
1.81in

Scan for more information

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