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Cove Light AC Dim

MB.CA.xxxxxxx

The Traxon Cove Light AC Dim offers a range of cold, neutral, or warm white with a 135x135 degree wide beam angle or 100x55 degree elliptical beam angle for general lighting, wall washing, and alcove illumination. Controlled by leading/trailing edge phase-cut dimmers, Cove Light AC Dim offers 100% to 5% dimming resolution without flickering

OSRAM

INDOOR IP20

PRODUCT SPECIFICATIONS

- **Light Source:** 6 LEDs
- **Color Temperature:** 2700 K, 3000 K, 3500 K, 4000 K, 6500 K
- **CRI:** 2700 K, 3000 K - 81Ra
  3500 K, 4000 K - 85Ra
  6500 K - 72Ra
- **Beam Angle:** 135° x 135°, 100° x 55°
- **Luminous Flux[1]:** 339 lm - 454 lm (135° x 135°) , 313 lm - 435 lm (100° x 55°)
- **Efficacy[1]:** 48 lm/W - 65 lm/W (135° x 135°) , 45 lm/W - 62 lm/W (100° x 55°)
- **Cover Lens:** Clear PC
- **Housing:** ABS backcase
- **Adjustment Options:** 180° rotation (5° steps) with lock
- **Size:** 295mm (L) x 37mm (W) x 45mm (H) / 11.6" (L) x 1.4" (W) x 1.8" (H) - (135° x 135°)
  295mm (L) x 37mm (W) x 55mm (H) / 11.6" (L) x 1.4" (W) x 2.1" (H) - (100° x 55°)
- **Weight:** 240g/0.53lbs (135° x 135°), 275g/0.61lbs (100° x 55°)
- **Regulatory Listing & Safety Approval:** Electrical Protection Class II, CE, cETLus
- **Operating Temperature:** 0°C to +40°C / −32°F to +104°F
- **Storage Temperature:** -20°C to +70°C / −4°F to +158°F
- **Environment:** Indoor
- **Humidity:** 0-90%, non-condensing

ELECTRICAL SPECIFICATIONS

- **Input Voltage:** 100-127V / 220-240V / 277V
- **Power Consumption:** 7W maximum at full output, steady state
- **Power Factor:** > 0.9
- **Dimming:** Compatible with and controlled by leading/trailing edge phase-cut dimmers[2]

SYSTEM SPECIFICATIONS

- **Power:** AC line, daisy chain
- **Power Supply:** Built-in
- **Max. Number of Fixtures:** 200 @ 277VAC; 150 @ 220VAC; 75 @ 120VAC[3]

1. Range is respective to color temperature from 2700 K - 6500 K, see Photometrics pages for details.

2. Refer to Cove Light AC Dim Compatible Dimmer List for specific details

3. Interconnect WITHOUT dimmer

LED CHARACTERISTICS Because LEDs are semiconductor devices, their performances are subject to inherent variability commonly found in semiconductor industry. To improve consistency in performance across the same product, LED manufacturers "sort" LEDs into bins according to different preset parameters, such as forward driving voltage, illumination, etc. Whereas binning is a sorting function, it is not a correction process. Inherent variability in the manufacturing process results always in different binning distributions according to different production lots. Traxon uses automatically binned LEDs on its products, thereby minimizing output variations within the model range.

As with all electronic devices, LED output degrades over time a term called lumen depreciation. This also explains why it is nearly impossible to expect photometric performances of two LED products with different service life spans to be the same. The rate of LED degrade is a complicate function of many factors such as operating efficiency, duration of continuous operation, and more significantly, environmental conditions (ambient temperature for example). If allowed working under optimal operating temperature range and with good ventilation, LED devices enjoy long service lives over conventional light sources. When using/installing LED devices, care should be taken to ensure that the devices will operate within the operating conditions specified in respective product literature.

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07/12, V1.5

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Cove Light AC Dim

Photometrics

SOURCE SPECIFICATIONS

Source: 6 high intensity power light emitting diodes

Optics: 135°x135°

Cover lens: Clear PC

CCT: 2700 K, 3000 K, 3500 K, 4000 K, 6500 K

CANDELA DISTRIBUTION

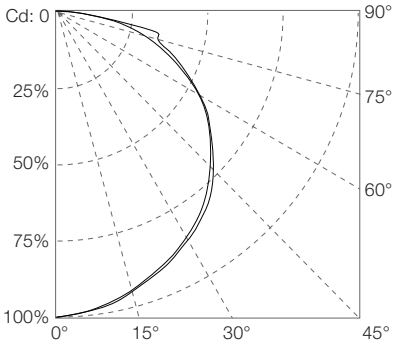
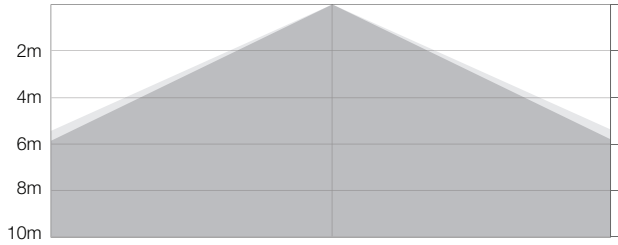


Diagram based on 6500 K measurement

LIGHT OUTPUT

Color Temperature	Luminous Flux (lumens)	Candela Distribution at 100%	Efficacy lm/W
2700 K	339	99.3	48.4
3000 K	351	101.5	51.1
3500 K	347	99.3	50.9
4000 K	380	109.5	55.1
6500 K	454	132.0	65.2

ILLUMINANCE AT A DISTANCE



Center Beam LUX

Color Temperature

2700 K	3000 K	3500 K	4000 K	6500 K
24.73	25.30	24.82	27.38	32.98
6.18	6.33	6.20	6.85	8.25
2.75	2.81	2.76	3.04	3.66
1.55	1.58	1.55	1.71	2.06
0.99	1.01	0.99	1.10	1.32

Diagram based on 6500 K measurement
For feet multiply by 3.28

For fc divide by 10.7

Color Temperature	Vert. Spread	Horiz. Spread
2700 K	131.1°	133.6°
3000 K	130.3°	133.0°
3500 K	131.6°	136.5°
4000 K	131.6°	136.1°
6500 K	128.8°	132.1°

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Cove Light AC Dim

Photometrics

SOURCE SPECIFICATIONS

Source: 6 high intensity power light emitting diodes

Optics: 100°x55°

Cover lens: Clear PC

CCT: 2700 K, 3000 K, 3500 K, 4000 K, 6500 K

CANDELA DISTRIBUTION

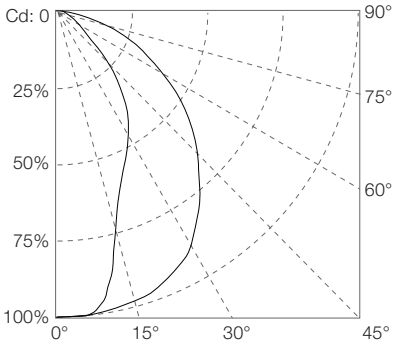
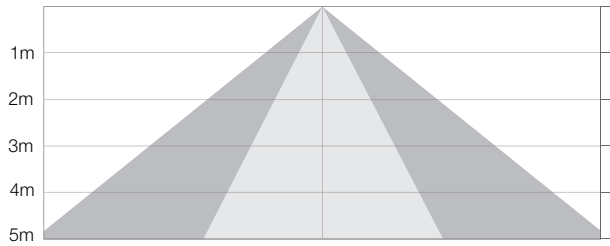


Diagram based on 6500 K measurement

LIGHT OUTPUT

Color Temperature	Luminous Flux (lumens)	Candela Distribution at 100%	Efficacy lm/W
2700 K	312.9	170.59	45
3000 K	339.4	184.62	48
3500 K	329.2	178.14	47
4000 K	360.1	101.09	51
6500 K	435.3	238.60	62

ILLUMINANCE AT A DISTANCE



Center Beam LUX

Color Temperature

	2700 K	3000 K	3500 K	4000 K	6500 K
1m	169	184	176	177	238
2m	42	46	44	44	60
3m	19	20	20	20	26
4m	11	12	11	11	15
5m	7	7	7	7	10

Diagram based on 6500 K measurement
For feet multiply by 3.28

For fc divide by 10.7

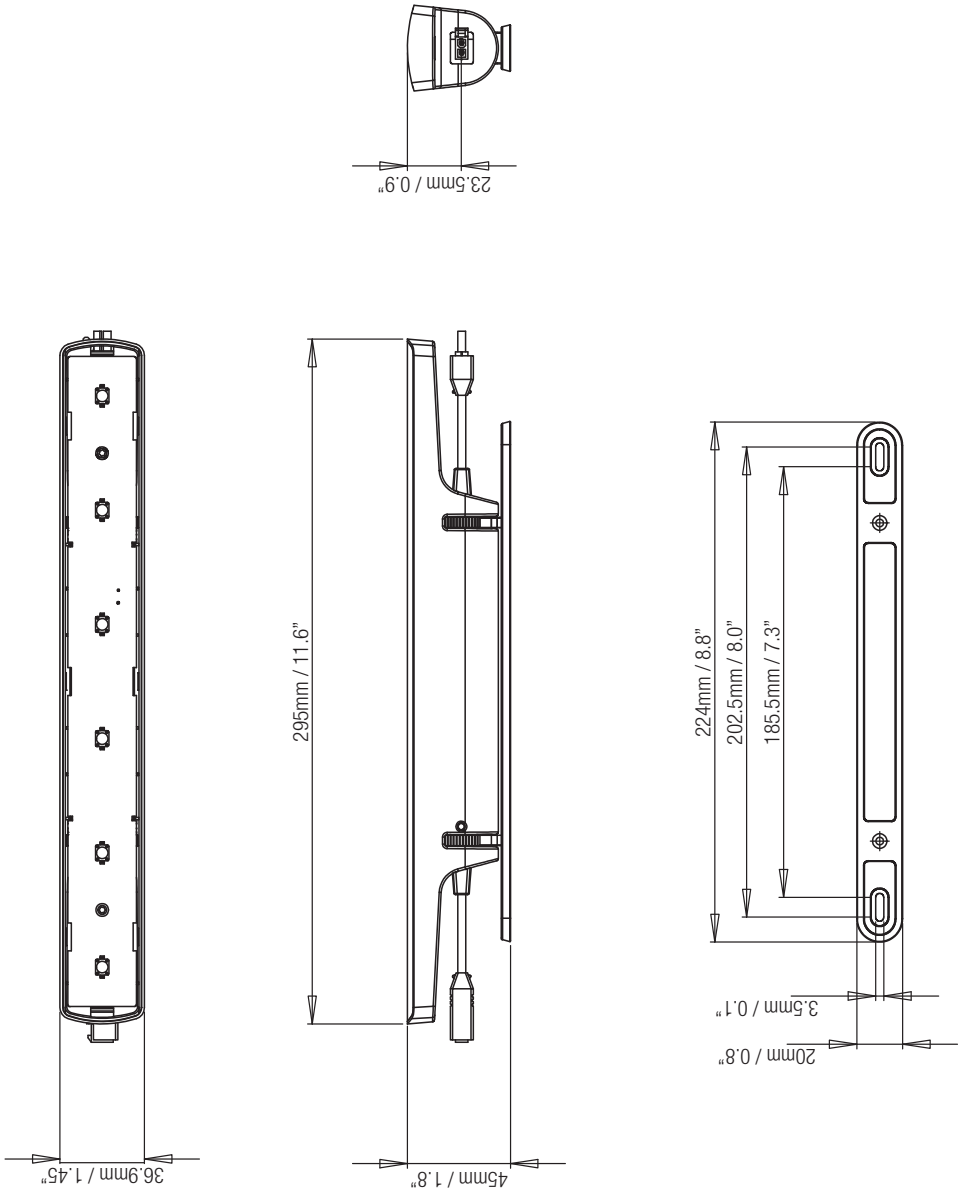
Color Temperature	Vert. Spread	Horiz. Spread
2700 K	103.1°	57.0°
3000 K	110.4°	56.9°
3500 K	100.2°	58.1°
4000 K	103.2°	55.4°
6500 K	103.4°	55.2°

Cove Light AC Dim

Dimensions

TECHNICAL DRAWING

135 x 135 degrees optics



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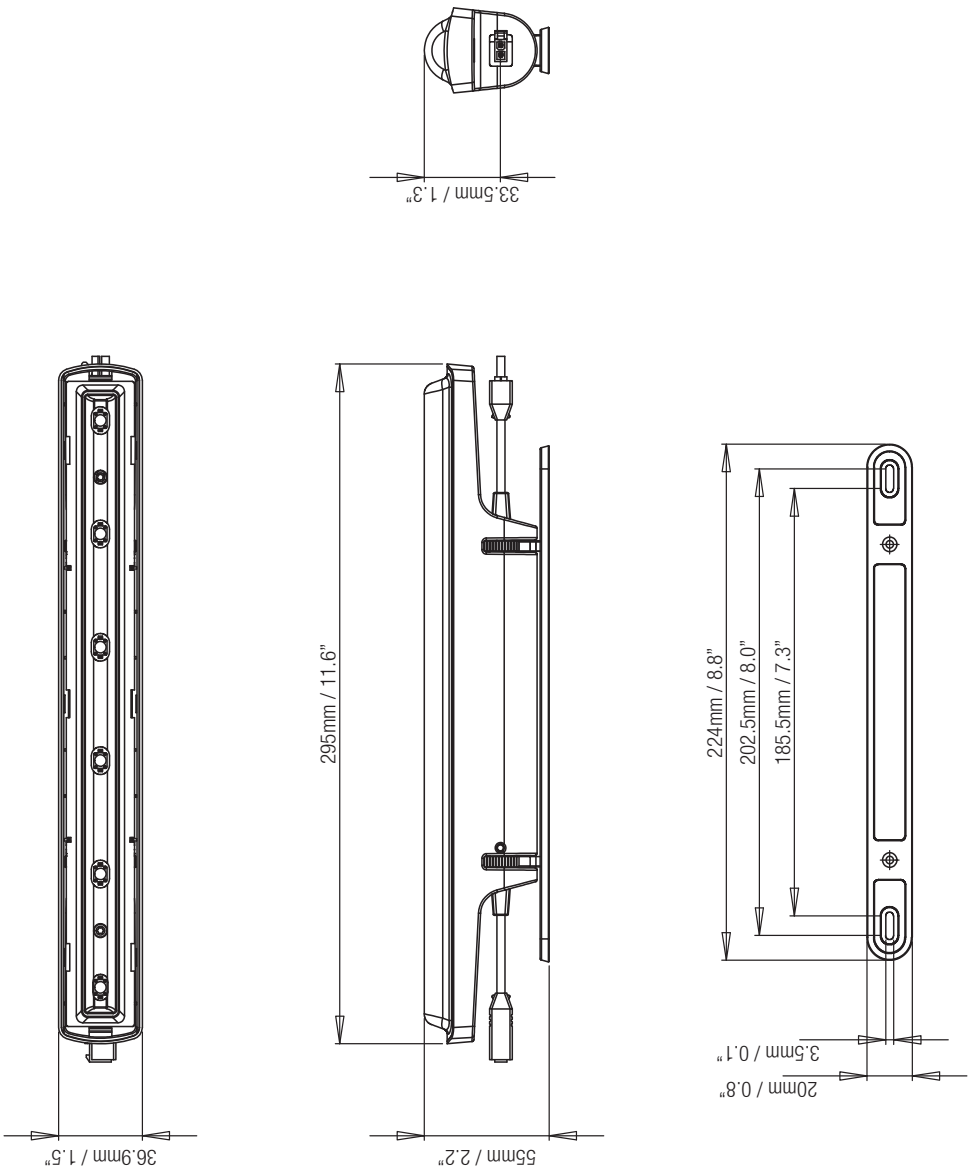
Cove Light AC Dim

Dimensions

TECHNICAL DRAWING

100 x 55 degrees optics



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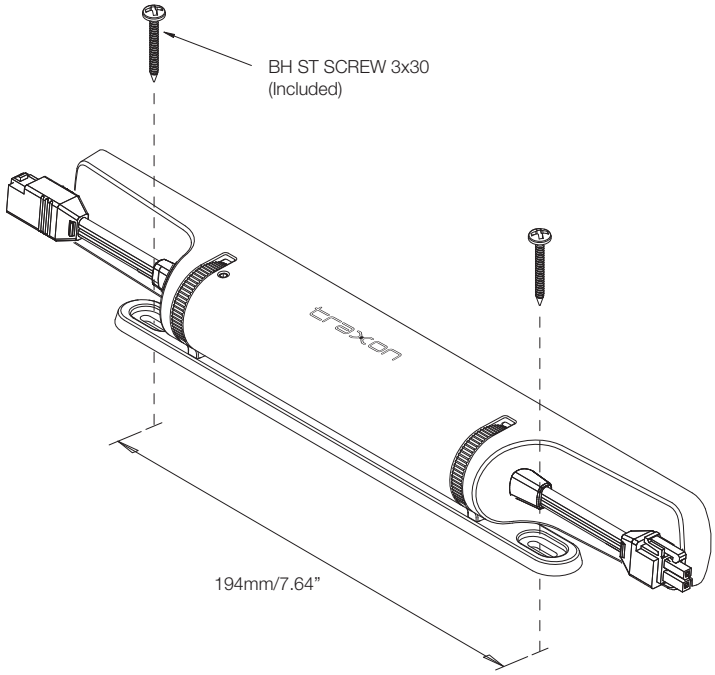
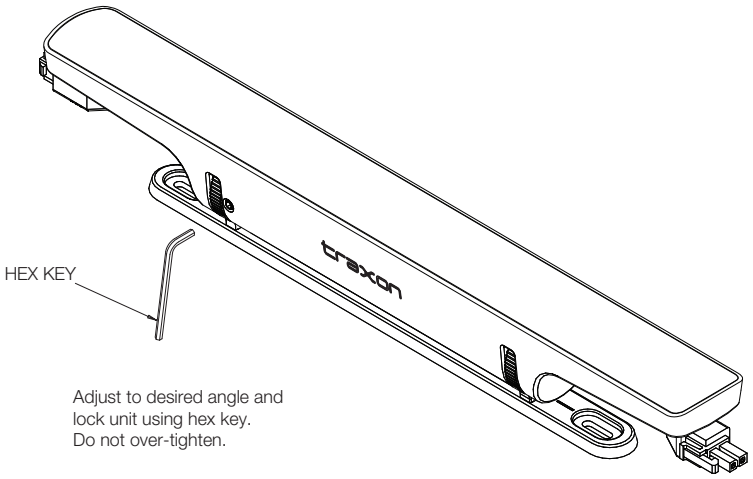
Mounting

MOUNTING





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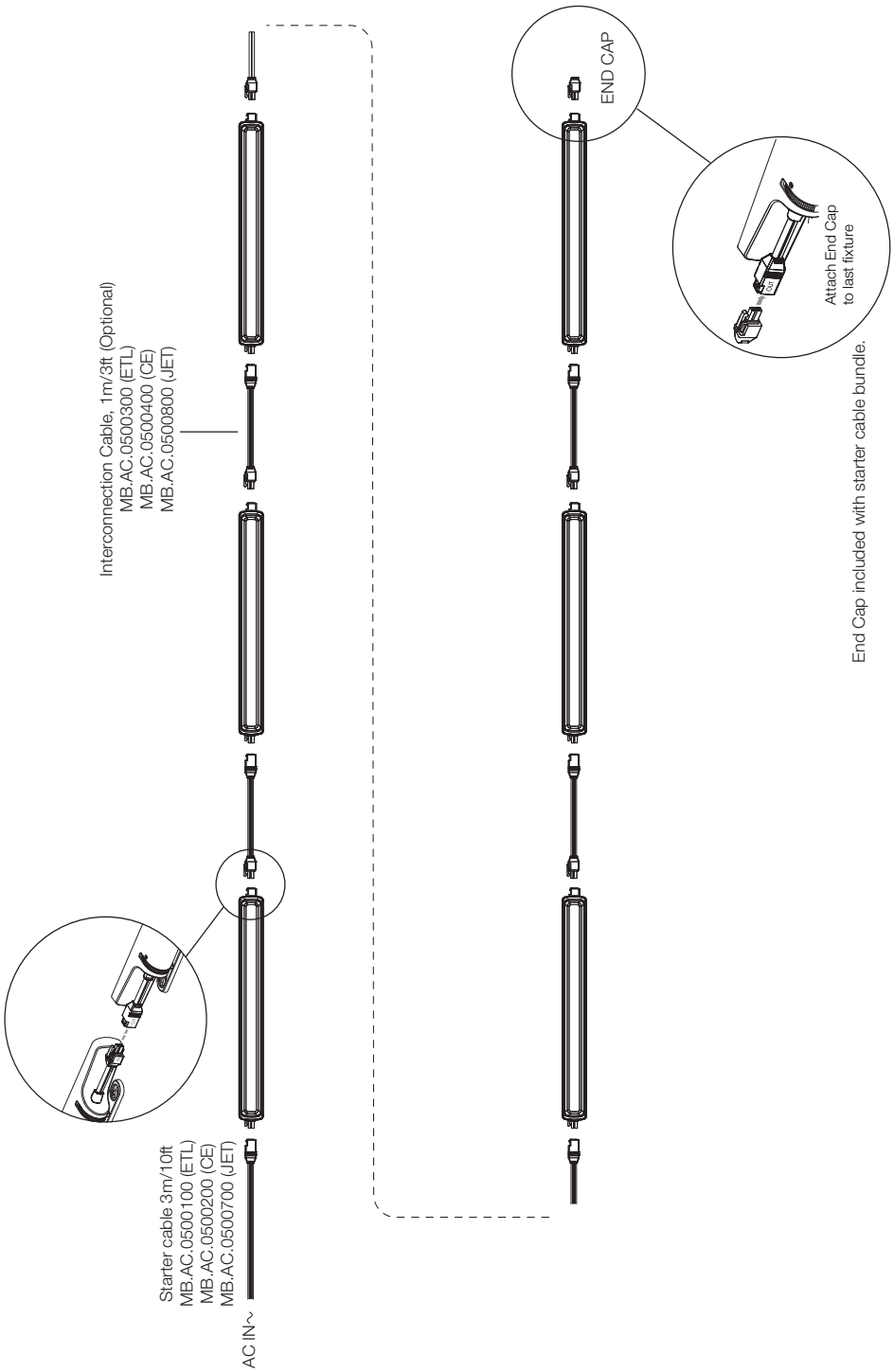
System Diagram

SYSTEM DIAGRAM



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Cove Light AC Dim

Accessories

MODEL NUMBER

M B . C A . 1 x x x x 0 1

- Version number
- Optics:
  0 = 135x135
  2 = 100x55
- Color Temperature:
  27 = 2700 K
  30 = 3000 K
  35 = 3500 K
  40 = 4000 K
  65 = 6500 K
- Certification:
  1 = ETL(120V)
  2 = CE
  4 = JET
  5 = ETL(277V)
- Control:
  0 = On-Off
  1 = Dimmable

OPTIONAL ACCESSORIES

Model No.	**Description**
MB.AC.0500100	COVE LIGHT AC Starter Cable (ETL), 3m/10ft, incl. End Cap
MB.AC.0500300	COVE LIGHT AC Interconnection Cable (ETL), 1m/3ft

MB.AC.0500200	COVE LIGHT AC Starter Cable (CE), 3m/10ft, incl. End Cap
MB.AC.0500400	COVE LIGHT AC Interconnection Cable (CE), 1m/3ft

MB.AC.0500700	COVE LIGHT AC Starter Cable (JET), 3m/10ft, incl. End Cap
MB.AC.0500800	COVE LIGHT AC Interconnection Cable (JET), 1m/3ft