## LIGHTOLIER

by (s) ignify

# **Downlighting**

LyteCaster LED 3" Accent







# **L3RD** Round Downlight

**Lightolier LyteCaster LED Accent Downlights** feature a 3.5" luminaire height that conserves plenum space without compromising the 60° physical and reflected cutoff. The modular and interchangeable light engine allows for an easy future upgrade. The accent downlight is damp location listed and comes in 3 standard finish options.

Project:		
Location:		
Cat.No:		
Туре:		
Qty:		
Notes:		

Complete luminaire = Frame-in kit + Light engine + Trim Order each separately

Frame example: L3AE1						
Series	Installations		Dimr	ming	,	/oltage
L3 LyteCaster 3" Accent	A AirSealIC AN AirSealIC C Remodele	E	ELV/Triad	: 1	I 120V	
	N New construction (Non-IC)			0-10V	ı	J Universal (120-277V)
Light engine					ex	ample: L308930NF
Series	Lumens	CRI/CCT			Beam	

Series L3	Lumens 08	CRI/CCT	Beam
L3 LyteCaster 3" Accent	<b>08</b> 800lm	927 90 CRI / 2700K 930 90 CRI / 3000K 935 90 CRI / 3500K 940 90 CRI / 4000K 9CW30 90 CRI / 3000K Crisp White 9PW30 90 CRI / 3000K Premium White 9PC30 90 CRI / 3000K Premium Color	S Spot, 17° NF Narrow flood, 22° F Flood, 30°

Round trim		example: L3RDD

Series L3	Shape	Style	Finish	Flange
L3 LyteCaster 3" Accent	R Round	<b>D</b> Downlight	C Chrome cone D Diffuse cone W White cone	blank White
		<b>B</b> Baffle downlight	<b>W</b> White baffle	blank White

### Accessories example: L3AHW

Series L3	Туре	Beam	Finish
L3 LyteCaster 3" Accent	AH Accessory holder	_	W White B Black
	LS Linear lens spread film (acc SD 5° soft diffusion film (acces		_
	RP Replacement Optic	S Spot, 17° NF Narrow flood, 22° F Flood, 30°	-









## Round Downlight

#### Assembled configuration:

 Frame Galvanized steel construction with internal access door for inspection of junction box.

 LED Module Extruded Aluminum clear anodized finish heat sink with thermal interface material efficiently transfers heat away from LED. Includes strain relieved low voltage whip with snap interconnector for quick, tool-less assembly of power connection. Tool-less assembly to trim.

Accessory Film (Optional) Available film accessories: 0.010 thick Linear spread film has notch to assist with beam orientation Holder required; only one film allowed per installation.

Accessory Holder (Optional) painted steel.
 Accessory holder snaps onto LED Module.

Can be installed before or after trim installation.

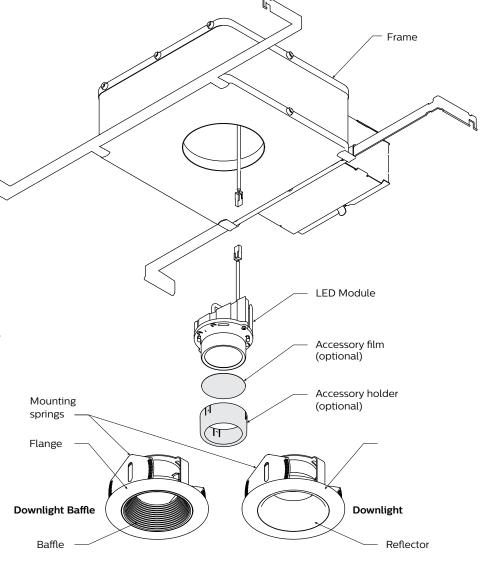
 Mounting springs stainless steel mounting springs min 0.013" thick provide a universal mounting solution between the different frame offerings

6. Downlight Reflector: Aluminum Reflector Cone.

7. Step Baffle: Molded polymeric material.

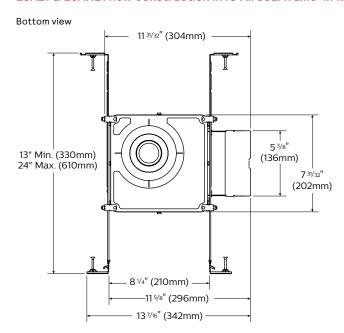
8. Die Cast Aluminum Trim Flange.

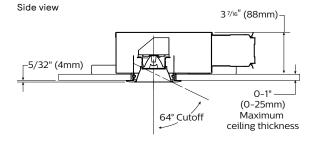
**Note:** LED module allows for field replaceable optics. Order separately.



## Round Downlight

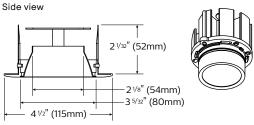
#### L3AE1 & L3ANE1 new construction in IC AirSeal frame-in kits





#### Round trim

# d trim Light engine



#### **Features**

- Housing: #23 ga. (.026") thick Galvanized steel. cULus listed for direct contact with thermal insulation (IC rated). AirSeal housing minimizes air leakage to less than 2 CFM at 1.57PSF (or 75PA), which complies with Title 24, the International Energy Conversation Code, and Washington State Energy Code (Section 502.4). This helps reduces heat loss and condensation in ceiling. Internal access door for inspection of junction box.
- 2. Lower frame and top cover: #23 ga. (026") thick Galvanized steel. Accommodates ceilings up to 1" (25.4 mm) thick. Bottom cover provided with a 0.5" (6.2mm) lip and 4 embossed indicator lines to simplify alignment during installation. Housing can be locked into position on the mounting bars with locking screws.
- 3. Junction box: 2 ½" (64mm) x 5 3/8" (137mm) x 2" (51mm) #21 ga. (.032") thick galvanized steel, cULus listed 90 degrees C rated supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).
- 4. Mounting bars: #16 ga. (.059") thick galvanized steel. Bars pivot for easy attachment and wire in from below the ceiling line. Bars can extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after slight field modification (see instruction sheet). Features integral self-tapping screw phillips/square drive for attachment to wood or metal construction. Also available with integral nails (N). Attaches to T-bar ceilings without accessories. Bars installed on shortest dimension of frame can be easily rotated 90° from original position.

- 5. Electronic dimming driver: Class 2 electronic LED Driver, with less than 1 second start up, RoHS compliant, suitable for damp locations. 120v 50/06Hz >0.9 power factor. Sound rating Class "A" (<24dB). Complies with FCC,CFR title 47 part 15 Class B for EMI/RFI. Dimmable with standard electronic low voltage (ELV) & Triac dimmers. Dims to less than or equal to 10% of relative high output. 5 year limited warranty.
- 6. Ceiling cutout: 3 ¾" diameter.
- 7. Optics:
  - Standard: 3SDCM fixture-to-fixture color match
  - Crisp White (CW30): Available in 90CRI / 3000K only, our 90CRI CrispWhite technology combines the warm, saturated colors of high CRI with crisp and vibrant whites. The small form factor and high quality of light make this an impactful option for retail display areas.
  - Premium White (PW30): Available in 90CRI/3000K only, the new benchmark in retail fashion, delivering stronger, brighter whites via the best technology in the market, but with minimal compromise on energy savings.
  - Premium Color (PC30): Available in 90CRI/3000K only, provides vivid and robust colors that pop while maintaining a strong ambient white and bold black balance in any space. This LED technology is sure to add positive energy to varying application needs.

#### Electrical

Input voltage: 120 V Input frequency: 50/60Hz Input current: 0.25 A Input Power: 12 W Power factor: >0.9

#### Labels

cULus type IC listed suitable for damp locations.

AirSeal - Rated for installation in insulated ceilings. Air-tite rated per ASTM E283.

Compliant to California Title 24 JA8, and certified to the Title 20 appliance database. E1 frames only.

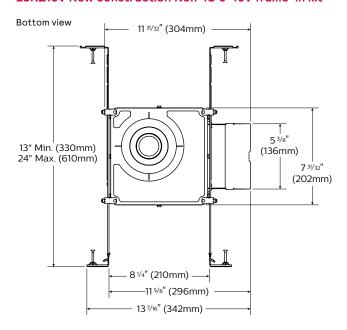
#### Warranty

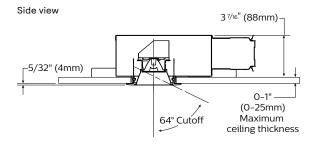


5 year limited warranty Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Round Downlight

#### L3NZ10V New construction Non-IC 0-10V frame-in kit





#### **Round trim**

# 2 1/2" (52mm) 2 1/2" (52mm) 2 1/2" (54mm) 3 5/2" (80mm)

#### **Features**

- Non-IC housing: #23 ga. (.026") thick Galvanized steel. cULus listed for damp locations. AirSeal housing minimizes air leakage to less than 2CFM at 1.57 PSF (or 75PA), complies with Title 24, International Energy Conversation Code, and Washington State Energy Code (section 502.4) Frame provided with internal access door for inspection of junction box.
- 2. Lower frame and top cover: #23 ga. (026 ") thick Galvanized steel. Accommodates ceilings up to 1" (25.4 mm) thick. Bottom cover provided with a .5" (6.2mm) lip and 4 embossed indicator lines to simplify alignment during installation. Housing can be locked into position on the mounting bars with locking screws.3. Junction box: 2 ½" (64mm) x 5 3/8" (137mm) x 2" (51mm) #21 ga. (.032") thick galvanized steel, cULus listed 90 degrees C rated supply conductors. Rated for branch circuit wiring supplying connected luminaires (daisy chaining).
- 4. Mounting bars: #16 ga. (.059") thick galvanized steel. Bars pivot for easy attachment and wire in from below the ceiling line. Bars can extend to accommodate 16" (406mm) to 24" (610mm) O.C. joist spacing. Bars can accommodate 12" (305mm) O.C. joist spacing after slight field modification. (see instruction sheet) Features integral self-tapping screw phillips/ square drive screws for attachment to wood or metal construction. Attaches to T-bar ceilings without accessories. Bars installed on shortest dimension of frame can be easily rotated 90' from original position.

- 5. Electronic dimming driver: Class 2 electronic LED driver, RoHS compliant, suitable for damp location. 120/277v 50/06Hz > 9 power factor. MTP (module thermal protection) current cutback up to 10% to prevent overheating. Sound rating Class "A" (<24dB). Complies with FCC, CFR title 47 part 15 Class A for EMI/RFI. Dimming Protocol (0-10v). Dims to less than or equal to 10% of relative high output.
- 6. Ceiling cutout: 3 ¾" diameter.
- 7. Optics:
  - Standard: 3SDCM fixture-to-fixture color match
  - Crisp White (CW30): Available in 90CRI
     / 3000K only, our 90CRI CrispWhite
     technology combines the warm, saturated
     colors of high CRI with crisp and vibrant
     whites. The small form factor and high
     quality of light make this an impactful option
     for retail display areas.
  - Premium White (PW30): Available in 90CRI/3000K only, the new benchmark in retail fashion, delivering stronger, brighter whites via the best technology in the market, but with minimal compromise on energy savings.
  - Premium Color (PC30): Available in 90CRI/3000K only, provides vivid and robust colors that pop while maintaining a strong ambient white and bold black balance in any space. This LED technology is sure to add positive energy to varying application needs.

#### Electrical

Input voltage: 120/277V Input frequency: 50/60Hz Input current: 0.14A/0.06A Input Power: 16.4W Power factor: >0.9

#### Labels

 $\ensuremath{\mathsf{cULus}}$  listed suitable for damp locations.

Light engine

AirSeal - Rated for installation in insulated ceilings. Air-tite rated per ASTM E283.

#### Warranty

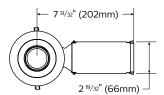


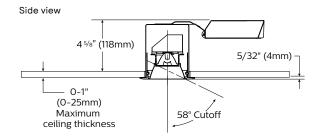
5 year limited warranty Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Round Downlight

#### L3CE1 Non-IC Remodeler kit

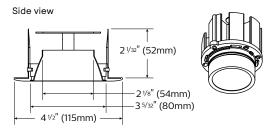
Bottom view





### **Round trim**

### Light engine



#### **Features**

- Non-IC housing: #25 ga. (025") thick
   Galvanized steel. Provided with 2 plates steel retaining springs that can accommodate ceiling thickness up to 1" (25.4mm) thick. Philips
  - thickness up to 1" (25.4mm) thick. Philips screw driver required to tighten springs that secure housing to ceiling.
- Junction box: #22 ga. (.034") thick Galvanized steel. cULus ,suitable for damp locations.
   Junction box assembly swivels for tight plenum spaces. Snap off cover permits wiring access. 0
- 3. Electronic dimming driver (same as new construction): Class 2 electronic LED Driver, with less than 1 second start up, RoHS compliant, suitable for damp locations. 120v 50/06Hz >.9 power factor. Sound rating Class "A" (<24dB). Complies with FCC,CFR title 47 part 15 Class B for EMI/RFI. Dimmable with standard electronic low voltage (ELV) & Triac dimmers. Dims to less than or equal to 10% of relative high output. 5 year limited warranty.
- Trim compatibility: Not compatible with adjustable trims except for L3RG series Gimbals.
- 5. Ceiling cutout 3 ¾" diameter.

#### 6. Optics:

- Standard: 3SDCM fixture-to-fixture color match.
- Crisp White (CW30): Available in 90CRI / 3000K only, our 90CRI CrispWhite technology combines the warm, saturated colors of high CRI with crisp and vibrant whites. The small form factor and high quality of light make this an impactful option for retail display areas.
- Premium White (PW30): Available in 90CRI/3000K only, the new benchmark in retail fashion, delivering stronger, brighter whites via the best technology in the market, but with minimal compromise on energy savings.
- Premium Color (PC30): Available in 90CRI/3000K only, provides vivid and robust colors that pop while maintaining a strong ambient white and bold black balance in any space. This LED technology is sure to add positive energy to varying application needs.

### Electrical

Input voltage: 120V Input frequency: 50/60Hz Input current: 0.25A Input Power: 12W Power factor: >0.9

#### Labels

cULus type IC listed suitable for damp location.

AirSeal - Rated for installation in insulated ceilings. Air-tite rated per ASTM E283.

#### Warranty



5 year limited warranty Visit Signify.com/warranties for more information on Signify's standard 5-year limited warranty on complete luminaire systems.

## Round Downlight

## AccuRender Technology (CRI 90+)

The right light brings colors to life. Our new AccuRender technology helps ensure colors are rendered more accurately and consistently, while doing so as efficiently as CRI 80 products.



Standard CRI 80

Good color rendering and high efficacy



Standard CRI 90

Better color rendering and low efficacy



Best color rendering, color preference and high efficacy

### Enjoy design flexibility

Full range of products and options:

- Available soon in across Lightolier portfolio for application flexibility
- Multiple color temperatures (CCTs) and lumen packages offered

#### **Promote savings**

High efficacy, with no penalty:

- Energy efficacy compares well to conventional 80 CRI
- Up to 25% more energy savings vs competitor 90 CRI¹
- · Helps meet Title 24 requirements

### Show your true colors

High color rendering:

- True to life colors to help energize your environment and render better flesh tones critical for healthcare hospitality and retail applications.
- R<sub>a</sub> up to 94 CRI
   R<sub>f</sub> up to 92 TM-30
   R<sub>g</sub> up to 67 CRI
   R<sub>th1</sub> up to 91 TM-30
   G<sub>a</sub> up to 99 CRI
   R<sub>g</sub> up to 100 TM-30
   C<sub>g</sub> up to 94 CRI
   R<sub>cs,h1</sub> up to -5% TM-30

#### Achieve color balance

Best in class color consistency:

 Promote aesthetic harmony in your space with ≤ 2 SDCM

### **Electrical Specifications**

Frame-in kit	Input Volts	Input Frequency	Input Current	LED Drive Current	Input Power	LED Power	THD Factor @ Max Load	Power Factor @ Max Load
L3AE1	120V	50/60Hz	0.075A	0.22A	9.0W	7.4W	<15%	>0.9
L3ANE1	120V	50/60Hz	0.075A	0.22A	9.0W	7.4W	<15%	>0.9
L3CE1	120V	50/60Hz	0.075A	0.22A	9.0W	7.4W	<15%	>0.9
	120V	50/60Hz	0.073A	0.22A	8.8W	7.4W	<10%	>0.9
L3NZ10U	277V	50/60Hz	0.033A	0.22A	9.0W	7.4W	<10%	>0.9
	120V	50/60Hz	0.081A	0.22A	9.7W	7.4W	<10%	>0.9
L3CZ10U	277V	50/60Hz	0.035A	0.22A	9.7W	7.4W	<10%	>0.9

### **Dimming Compatibility**

Philips Sunrise: SR1200ZTUNV Leviton Illumatech: IPX06 Leviton Decora: 6615-P, 6633-P Lutron Diva: DVLEV-303P Lutron Skylark: SLEV-300P

Lutron Maestro: MAELV-600, MAW-600

#### Electronic dimming driver:

Class 2 electronic LED Driver, with less than 1 second start up, RoHS compliant, suitable for damp locations. 120v 50/06Hz > 9 power factor. Sound rating Class "A" (<24dB). Complies with FCC,CFR title 47 part 15 Class B for EMI/RFI. Dimmable with standard electronic low voltage (ELV) & Triac dimmers. Dims to less than or equal to 10% of relative high output. 5 year limited warranty.

## Round Downlight

### Photometry (1000lm)





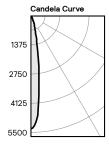


Beam Spread	Color Temp (CCT)	Flux (lm)	Power (W)	Efficacy (lm/W)	CRI	R9	Beam Angle	Field Angle	Spacing Criterion	UGR
Spot (S)	2700K	804	8.9	90.6	92	54	17°	41°	0.309	4.6
WILLIAM STATE	3000K	840	8.9	94.7	92	54	17°	41°	0.309	4.8
	3500K	840	8.9	94.4	92	54	17°	41°	0.309	5.0
	4000K	899	8.9	101.4	92	54	17°	41°	0.309	5.0
	Crisp White	640	8.9	72.2	92	54	17°	41°	0.309	3.8
	Premium White	852	8.9	96.1	92	54	17°	41°	0.309	4.8
	Premium Color	777	8.9	87.6	92	54	17°	41°	0.309	4.6
Narrow Flood (NF)	2700K	833	8.9	93.6	92	53	22°	44°	0.387	4.2
6000	3000K	871	8.9	97.8	92	53	22°	44°	0.387	4.4
( testing	3500K	871	8.9	97.8	92	53	22°	44°	0.387	4.5
	4000K	932	8.9	104.7	92	53	22°	44°	0.387	4.6
	Crisp White	664	8.9	74.6	92	53	22°	44°	0.387	3.4
	Premium White	883	8.9	99.2	92	53	22°	44°	0.387	4.4
	Premium Color	805	8.9	90.5	92	53	22°	44°	0.387	4.1
Flood (F)	2700K	868	8.9	97.7	92	53	34°	64°	0.571	5.4
	3000K	907	8.9	102.0	92	53	34°	64°	0.571	5.6
The same	3500K	907	8.9	101.9	92	53	34°	64°	0.571	5.7
	4000K	971	8.9	109.2	92	53	34°	64°	0.571	5.8
White Ship	Crisp White	691	8.9	77.8	92	53	34°	64°	0.571	4.8
	Premium White	920	8.9	103.5	92	53	34°	64°	0.571	5.6
	Premium Color	839	8.9	94.4	92	53	34°	64°	0.571	5.4

- 1. Luminaire photometry has been conducted in accordance with IES LM-79-08. IES files can be downloaded by clicking the links in the table above, or online at lightolier.com.
- 2. Crisp White, Premium White and Premium Color 3000K results.
- 3. Color Rendering Index (CRI Ra ) and Strong Red (R<sub>9</sub>) are calculated in accordance with CIE 013.3-1995.

## Round Downlight

#### Downlight, Spot beam, 800lm engine, 95lm/W at 9W



Engine: L308935S Trim: L3RDD			
Output Lms:	841lms		
Input Watts <sup>1</sup> :	8.9 W		
CCT <sup>2</sup> :	3500 K		
CRI:	90 min		
Beam Angle:	17°		
Spacing Crit.:	0.33		

Efficacy: 94.5 lm/w Report<sup>3</sup>: L308935S-L3RDD.ies

Angle	Mean CP	Lms
0	5302	
5 10	4256 2061	328
15 20	990 550	288
25	307	
30 35	167 84	145
40	37	56
45 50	19 9	15
55 60	6 4	5
65	3	_
70 75	2 1	3
80	1	1
85 90	0	0

## Zonal lumens & percentages

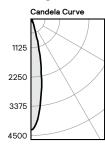
Zone	Lumens	%Luminaire
0-30	761	90.5%
0-40	817	97.1%
0-60	837	99.5%
0-90	841	100.0%

#### Single unit data

	Initial center beam foot-candles	Beam dia. (ft)*
5'	212	1.7'
6'	147	2.0'
7'	108	2.3'
8'	83	2.6'
9'	65	3.0'

<sup>\*</sup>Beam diameter is where foot-candles drop to 50% of maximum.

### Downlight, Narrow Flood beam, 800lm engine, 95lm/W at 9W



Frame: L3NZ10U Engine: L308935NF Trim: L3RDD		Angle	Mean CP	Lms
		0 5	4281 3668	
Output Lms: Input Watts <sup>1</sup> : CCT <sup>2</sup> :	872 lms 8.9 W 3500 K	10 15 20	2405 1246 563	309 349
CRI: Beam Angle: Spacing Crit.:	90 min 22°	25 30 35 40	266 142 80 43	131 52
		45 50 55	27 15 7	21
Efficacy: 98.01m/w Report <sup>3</sup> : L308935NF-L3RDD.ies		60 65	5 2	7
		70 75	1 1	3
		80 85	0	1
		90	0	0

## Zonal lumens & percentage

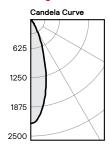
Zone	Lumens	%Luminaire
0-30	789	90.5%
0-40	841	96.4%
0-60	869	99.7%
0-90	872	100.0%

#### Single unit data

•	Initial center beam foot-candles	Beam dia. (ft)*
5'	171	1.9'
6'	119	2.3'
7'	87	2.7'
8'	67	3.0'
9'	53	3.4'

<sup>\*</sup>Beam diameter is where foot-candles drop to 50% of maximum.

#### Downlight, Flood beam, 800lm engine, 95lm/W at 9W



	•
Frame: L3NZ1 Engine: L3089 Trim: L3RDD	
Output Lms: Input Watts <sup>1</sup> : CCT <sup>2</sup> : CRI: Beam Angle: Spacing Crit.:	9071ms 8.9 W 3500K 90 min 34° 0.56
Efficacy: 98.0 Report <sup>3</sup> : L30	<b>)lm/w</b> 8935F-L3RDD.

Mean CP	Lms
2223	
1735	188
845	350
291	238
147 62	96
27 14	23
7 5	7
3	3
1	1
0	0
l <sup>u</sup>	١٠
	2223 2088 1735 1279 845 512 291 147 62 27 14 7 5 3 2

## Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	776	85.6%
0-40	872	96.1%
0-60	902	99.4%
0-90	907	100.0%

#### Single unit data

	Initial center beam foot-candles	Beam dia. (ft)*
5'	89	2.8'
6'	62	3.4'
7'	45	3.9'
8'	35	4.5'
9'	27	5.0'

<sup>\*</sup>Beam diameter is where foot-candles drop to 50% of maximum.

- 1. Wattage: controlled to within 5%.
- 2. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
- 3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.



© 2025 Signify Holding. All rights reserved. The information provided herein is subject to change, without notice. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The informatior presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify.

Signify North America Corporation 400 Crossing Blvd, Suite 600 Bridgewater, NJ 08807 Telephone: 800–555–0050 Signify Canada Ltd. 281 Hillmount Road, Markham, ON, Canada L6C 2S3 Felephone: 800-668-9008

All trademarks are owned by Signify Holding or their respective owners.