MICROCove AC Indirect

1.4" Low-Profile Linear LED Cove Mount

XICO®

1.4"
Scale

Integral Driver

Features & Benefits

Exceptional Performance
Up to 1,000 lm/ft, 150 lm/W efficacy

Wide Range of LED Selections
Static, Tunable White, and Dim-to-Warm. 80/90/95+ CRI, 2200K to 5000K CCT.

AC Power Input with Dimming & Control Options
Direct AC input (110V-277V) wide range of control options including 0-10V, DALI, DMX, and TRIAC dimming

Patented Innovations
Fusion Optix® Inside with unique SmartBeam® capabilities

Proprietary Optical Components
Provides excellent light distribution and high-transmission

Committed to Made-in-USA & Sustainability
Designed & built in Boston MA, Declare Listed and Red Free List materials

Compliance
UL Listed, Dry and Damp Locations

5-Year Warranty
Standard 5-year warranty, 50,000 hours

Designed & Built in
BOSTON

Declare

Red List Free

FIXTURE ORDERING

Project Name	
Fixture Type	

1) FIXTURE DESIGN

PRODUCT	FIXTURE LENGTH		COLOR & FINISH		DAISY CHAIN	
MCV-ACI						
1.4" Low-Profile Linear LED Cove Mount with AC Power for Indirect Lighting	**1FT** **2FT** **3FT** **4FT** **X_**	12in Nominal 24in Nominal 36in Nominal 48in Nominal Specify X', Y"	**MWH**	Matte White (RAL9003)	**DN** **DY**	No: Daisy Chain (Single Input) Yes: Daisy Chain

2) LED LIGHT ENGINE

CRI		CCT			INDIRECT BEAM PATTERN		INDIRECT OUTPUT	
S80	Std. 80 CRI	**22**	2200K		**ILAM**	Lambertian	**25**	250 lm/ft
S90	Std. 90 CRI	**27**	2700K		**IBW120**	Batwing 120°	**35**	350 lm/ft
HE80	High-Eff. 80 CRI	**30**	3000K		**IFT150**	FlatTop 150°	**50**	500 lm/ft
HE90	High-Eff. 90 CRI	**35**	3500K		**IA6040**	Asymmetric 60° at 40° Tilt	**75**	750 lm/ft
HD95	High-Def. 95 CRI	**40**	4000K		**IA4560**	Asymmetric 45° at 60° Tilt	**100**	1,000 lm/ft
SUN	Full SunLike	**50**	5000K		**X_**	Specify Beam	**X_**	Specify lm/ft
SBIOS	Static BIOS	**3022D**	3000K to 2200K Dim-to-Warm					
DBIOS	Dynamic BIOS	**3527D**	3500K to 2700K Dim-to-Warm					
TBIOS	Tunable White BIOS	**X_**	Specify CCT					

3) FIXTURE POWER & CONTROLS

LINE VOLTAGE (DC)		INTEGRAL DRIVER (POWER)		EMERGENCY BACKUP		CONTROL SYSTEM[1]	
UNV	120/277V	**FDND**	Factory Non-Dimming	**NN**	Not Needed	**NN**	Not Needed
347	347V	**FD01**	Factory 0-10V 1% Dim	**EMC**	Emergency Circuit	**LUT**	Lutron
		FD10	Factory 0-10V 10% Dim	**EMB**	Emergency Battery	**COO**	Cooper
		FDDA	Factory DALI 0.1% Dim		(10 W — Onboard)	**CAS**	Casambi
		FDDX	Factory DMX Dim	**X_**	Specify Backup	**X_**	Specify Control System
		FDTR	Factory TRIAC Dim				
		LD01	Lutron Hi-Lume 1% Dim				
		LD05	Lutron 5-Series 5% Dim				
		ED00	eldoLED 0-10V 0.1% Dim				
		ED01	eldoLED 0-10V 1% Dim				
		EDDA	eldoLED DALI 0.1% Dim				
		X_	Specify Driver				

4) FIXTURE MOUNTING & ACCESSORIES

MOUNTING TYPE		POWER EXTENSION CORD	
FM	Fixed Mount	**EC6WH**	6" White Extension Cable
AM	Adjustable Angle Mount	**EC12WH**	12" White Extension Cable
		EC24WH	24" White Extension Cable
		EC48WH	48" White Extension Cable

NOTES

Footnotes: [1] The control system and driver must be compatible.

FIXTURE DESIGN

Dimensions

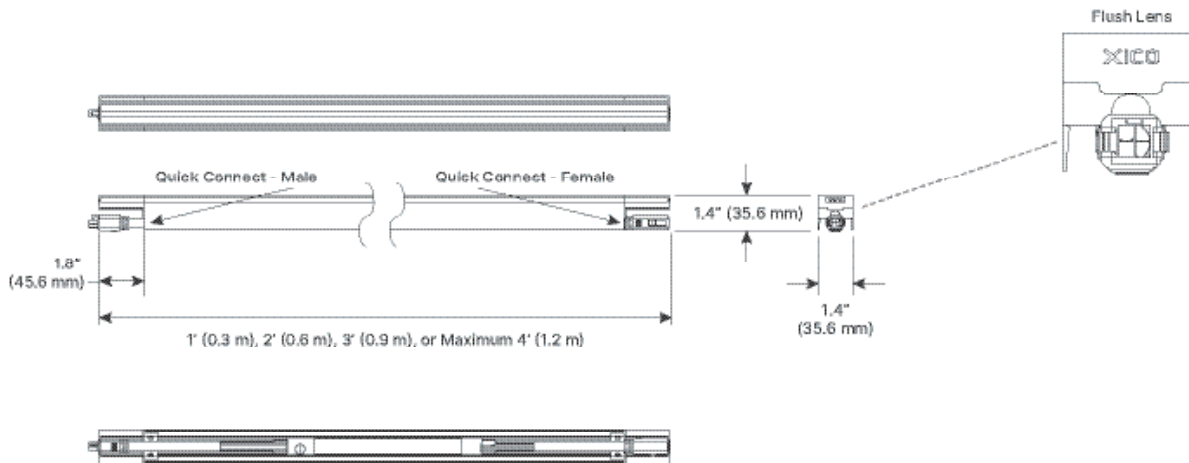### Fixed Mount
optics decide beam distribution
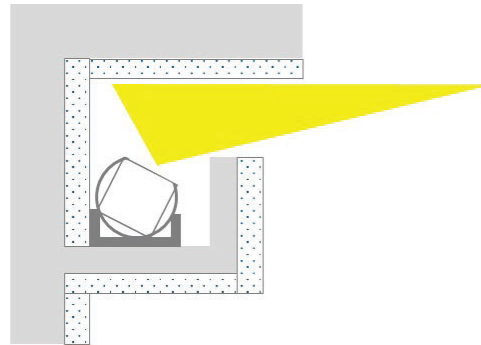
Adjustable Angle Mount
beam distribution by additional tilting of fixture

To download BIM (Revit) Files, please click or scan the QR Code.

Flush Lens

Quick Connect - Male   Quick Connect - Female

1.4" (35.6 mm)

1.8" (45.6 mm)

1' (0.3 m), 2' (0.6 m), 3' (0.9 m), or Maximum 4' (1.2 m)

1.4" (35.6 mm)

Length

Length Options	1', 2', 3', 4' nominal, or custom within 6"

Finish

Housing Color (Matte Finish)

White (RAL9003)

Housing Material	6063-T5 extruded, recycled aluminum
Mounting Brackets	Sheet metal

Voltage

Fixture Voltage (AC)	120–277 VAC and 347 VAC, 50/60 Hz

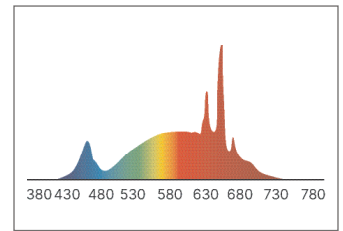## LED SELECTION GUIDE

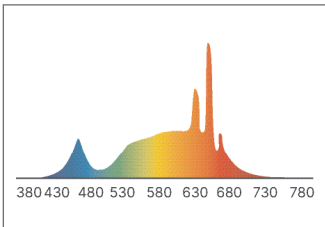**S80: Standard 80+ CRI**
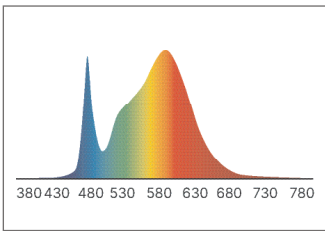
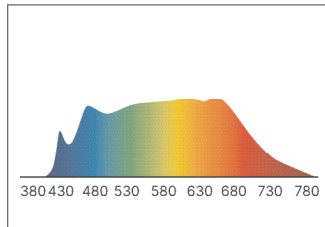

S90: Standard 90+ CRI
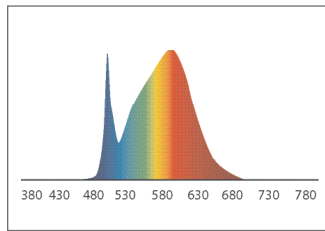
HE80: High-Efficiency 80+ CRI
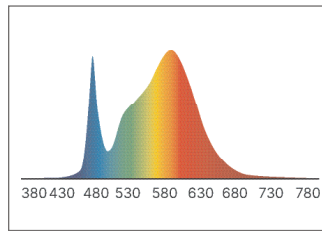
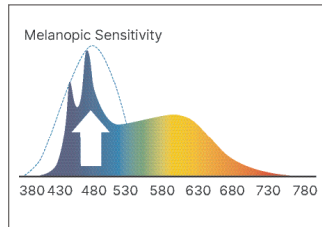**HE90: High-Efficiency 90+ CRI**

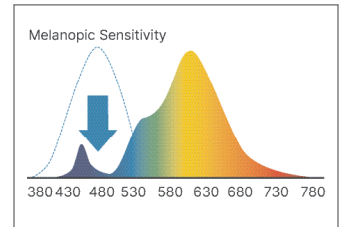**HD95: High-Definition 95+ CRI**

SUN: Full Spectrum "SunLike"

HCD: Human Centric Day

HCN: Human Centric Night

Static White Light (LED Light Engine Only)

CODE	DESCRIPTION	TYPICAL LED DATA							
		CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	M/P Ratio	LPW
S80	Standard 80 CRI	3500K	82.5	7.8	84	96.7	82.5	0.51	190
S90	Standard 90 CRI	3500K	91	54.3	89.3	98.9	89.2	0.55	175
HE80	High Efficiency 80 CRI	3500K	82.1	5.9	83	94.2	81.2	0.52	210
HE90	High Efficiency 90 CRI	3500K	92.2	90	90.7	103.8	92.1	0.56	190
HD95	High Definition 95 CRI	3500K	97.1	95	–	–	–	0.70	163
SUN	Full Spectrum SunLike®	3500K	95	85	–	–	–	–	130
HCD	Human Centric Day	4000K	83	95	–	–	–	0.92	155
HCN	Human Centric Night	2700K	80	–	–	–	–	0.44	134

LPW Efficacy Conversion Chart

| CODE	CCT SELECTED							
	2200K	2700K	3000K	3500K	4000K	5000K	5700K	6500K
S80	–	0.91	0.96	1.00	1.04	1.11	1.11	1.11
S90	–	0.91	0.96	1.00	1.04	1.11	1.11	1.11
HE80	–	0.96	0.99	1.00	1.03	1.04	1.03	1.03
HE90	–	0.91	0.96	1.00	1.04	1.11	N/A	N/A
HD95	–	0.91	0.96	1.00	1.04	1.11	1.03	1.04
SUN95	–	0.90	0.92	1.00	1.01	1.07	1.04	1.05
HCD	–	N/A	0.96	1.00	1.04	1.04	1.04	1.04
HCN	–	0.87	0.96	1.00	1.04	N/A	N/A	N/A

BIOS TECHNOLOGY

Choosing Your BIOS Solution

BIOS is offered in four Circadian LED Solutions with BIOS SkyBlue Technology —
Biological Static, Biological Dynamic, Biological Tunable, and Biological Dim-to-Warm.
BIOS SkyBlue™ Technology includes a blue peak at 490nm that provides an effective
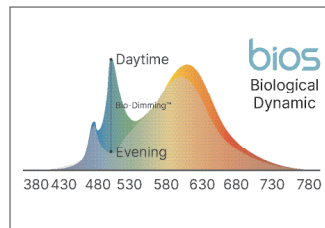daytime circadian signal using standard architectural color temperatures.

To learn more about
BIOS Technology,
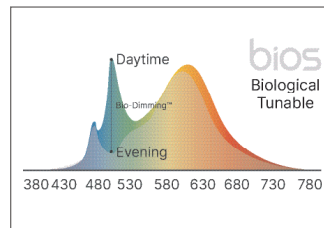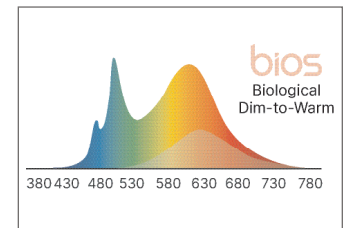please click or scan
the QR Code.
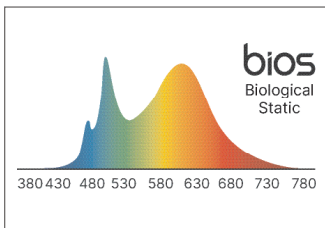
BIOS Static	BIOS Dynamic	BIOS Tunable	BIOS Dim-to-Warm
Daytime	**Daytime & Evening**	**Daytime & Evening**	**Daytime & Evening**
No color change when dimmed	500K shift when dimmed	Dims to 2700K	Dims from cool to warm
Spaces that operate during daytime hours — 7am and 7pm	Spaces that operate overnight — after 7pm and before 7am	Spaces that operate with overnight shifts — after 7pm and before 7am	Spaces where people sleep — after 7pm and before 7am

Circadian and Human Centric Light

		BIO-DIMMING MODULE TECHNOLOGY GUIDE					
CODE	DESCRIPTION	Driver	Driver Voltage	CCT	Requires BIO-Dimming Module	Lighting Control	BIOS SkyBlue (490nm)
SBIOS	BIOS Static	DIM1	0-10V Dimming to 1% Dim-to-Dark	No CCT Change	No	Intensity Dimming Control Only	Always Present
DBIOS	BIOS Dynamic	BIODIM1	0-10V Intensity Dimming to 1% Dim-to-Dark	500K Shift	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DBIOS-2	BIOS Dynamic (Two Channel)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
TBIOS	BIOS Tunable	ATW / DTW	0-10V Control of Intensity & CCT on Separate 2 Channels / DALI Control of Intensity & CCT on Separate 2 Channels	Dims to 2700K	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
TBIOS-2	BIOS Tunable (Two Channel)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"
DWBIOS	BIOS Dim-to-Warm	–	–	Dims to 2200K	Yes	Intensity Dimming & Spectrum Change Controlled Together	Removed with BIO-Dimming
DWBIOS-2	BIOS Dim-to-Warm (Two Channel)				No	Intensity Dimming & Spectrum Change Controlled Separately	Removed by Adjusting "Spectrum Channel"

SMARTBEAM® TECHNOLOGY

The Ultimate Control of Lighting Distributions

SmartBeam makes it easy to specify the exact light required for any architectural space. Available in every XICO product; it is now possible to create truly tailored and engaging lighting that transform spaces, improves visual comfort, and saves energy.

To learn more about our SmartBeam Technology, please click or scan the QR Code.

FIXTURE POWER & CONTROLS

Voltage

LED Driver	Factory Selected, 36–39V Constant Current

Emergency Backup

Backup Types	Emergency Circuit, Emergency Battery (Onboard), and other emergency backups are available
Wiring	Typically the Emergency Backup is wired to 48" sections
Power	10 W
Illumination Time	90 minutes

Partners

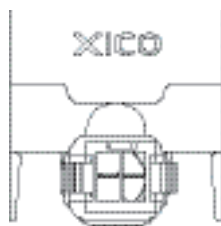| Control Systems	Integral Driver
Other	Factory Non-Dimming, Factory 0-10V 1% Dim, Factory 0-10V 10% Dim, Factory DALI 0.1% Dim, Factory DMX Dim, Factory TRIAC Dim, eldoLED 0-10V 0.1% Dim, eldoLED 0-10V 1% Dim, eldoLED DALI 0.1% Dim, and other drivers are available, consult factory (not all integral)
Lutron	Hi-Lume 1% Dimming and 5-Series 5% Dimming
Cooper	Compatible driver
Casambi (wireless)	Compatible driver

Drivers are integral to the fixture and are included. They provide 0-10V, DALI, DMX, and TRIAC dimming. Also compatible with Cooper and other common building control systems, including PoE and wireless.

FIXTURE MOUNTING & ACCESSORIES
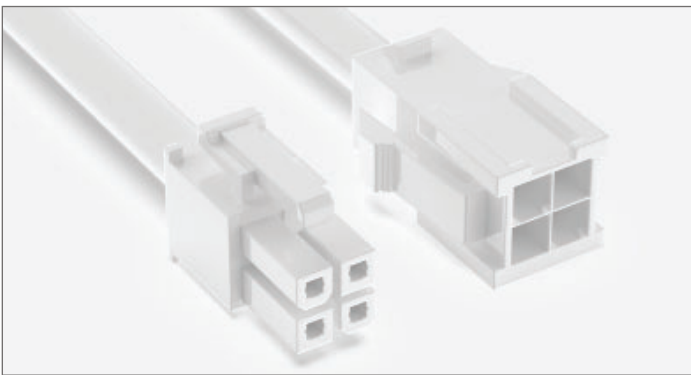
Mounting Type

Cove Mount

Installs into a cove. Available with a range of accessories, mounts and inserts that provide easy customization of visual appearance and performance enhancements.

Power Extension Cord

Sizes and Color

6", 12", 24", and 48", White Extension Cords
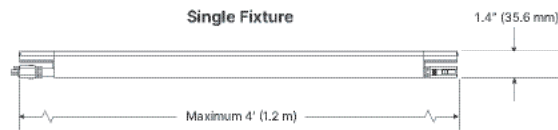
Connector (AC)

Connector Options

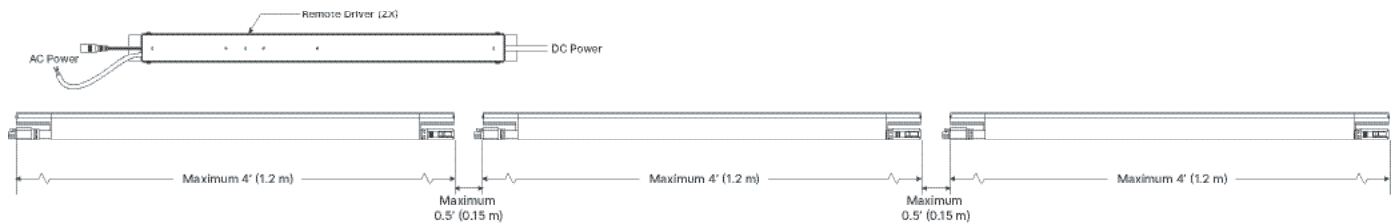Easy Plug-and-Play Factory Installed Connectors

Factory Connectors
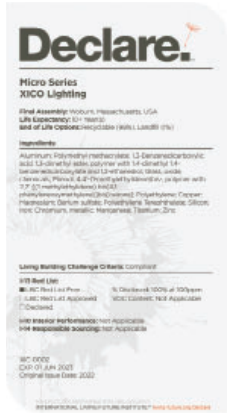
Standard Lengths & Continuous Runs

Maximum length of one fixture is 4'. Longer runs can be produced by connecting fixtures or daisy chain. Customer approval of shop drawings is required prior to build of any non-standard length order.

STANDARDS & CERTIFICATIONS

Declare Listed

Declare labels provide a quick and reliable way to make choices about the environmental footprint and safety of the product. Declare is internationally recognized and the labels can be found on the product, product packaging, or company website. Visit xicoled.com for Declare Listed details.

Red List Free

An industry standard certification for LED lighting products based on the International Living Future Institute (ILFI). These products only use materials based on the "Red List of Toxic Chemicals" (a list of chemicals and materials known to be hazardous to people and/or the Earth) that are safe, healthy, and environmentally sustainable.

Certifications

Compliance	BAA & TAA compliant in-house manufacturing in Boston, MA with North American supply chain
Certifications	UL LISTED CSA RoHS 2002/95/EC IC RATED
Sustainability	Declare Listed and Red List Free
Packaging	Low carbon, environmentally conscious packaging and shipping methods

Environmental Suitability

IP Rating	Suitable for Dry and Damp Locations, indoor use only
Recyclable	SmartOptics and all powder coated and anodized parts are fully recyclable at end of life

Reliability

Manufacturing	All XICO products and associated optics and LED engines are assembled at our factory in Woburn, MA
Quality Assurance	Each product is engineered reliability and quality assurance tested

Warranty & Terms

5-YR Warranty

Business Terms
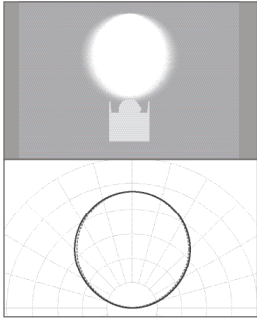
For details on our warranty and business terms, please click or scan the QR Code.
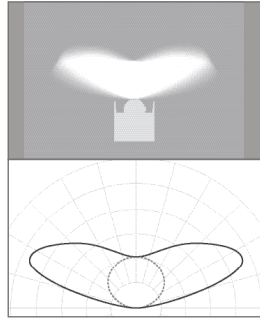
INDIRECT PHOTOMETRICS
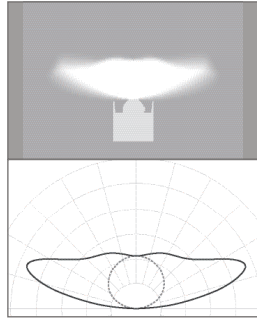
Static White Light

ILAM: Lambertian

IBW120: Batwing 120°

IFT150: FlatTop 150°

IA6040: Asymmetric 60° at 40° Tilt

IA4560: Asymmetric 45° at 60° Tilt

Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	26.7
W/ft	6.7
LPW	150

Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	26
W/ft	6.4
LPW	156

Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7.0
LPW	143

Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7.0
LPW	143
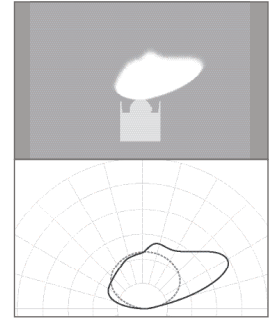
Length	48"
LED	HE80
CRI/CCT	80+/3500K
Lumens	4,000
lm/ft	1,000
Watts	28
W/ft	7.0
LPW	143

PATENTS & TRADEMARKS

To learn more about our unique technologies, please click or scan the QR Code.

Utility Patents

United States	US11543582, US11520097, US11512466, US11441749, US11396751, US11333822, US11163104, US11156762, US10852466, US10068447, US8953926, US8948564, US8911099, US8876348, US8794812, US8783898, US8761565, US8750671, US8721152, US8619363, US8430548, US8408775, US8249408, US8231256, US8177408, US8033706, US8033674, US7991257, US7914192, US7784954, US7758227, US7722224, US7542635, US7453636, US7453635, US7431489, US7408707, US7278775, US6369944, US6346311, US6123877, US5932342, US5837346, US20220373144, US20220372752, US20220364708, US20220357006, US20220357005, US20220342141, US20220290432, US20220206210A1, US20220171119A1, US20220171115A1, US20220162856A1, US20220162853A1, US20220146063A1, US20220137287, US20210301991A1, US20200355345A1, US20200217071A1, US20220333765A1, US20220228366A1, US20220196906A1, US20220010554A1, US20080043490A1, US20060290253A1, US20060215958A1, US20120321247, US20120250330, US20120099204
Canada	CA2702600, CA2702685, CA2702690
France	FREP0800658
Germany	DEEP0800658
Great Britain	GB2492541, GB2492542, GBEP0800658, GB2492398
Japan	JP03958359
Netherlands	NLEP0800658
Taiwan	FTW360813B
European Patent Organization	EP0843203, EP0843203

Design Patents

United States	USD719282, USD717973, USD669606, USD669608, USD669609, USD669614, USD663056

The Patent Corporation Treaty

World Intellectual Property Organization	WO2015200268

Trademarks

United States	US6672871, US6397231, US6373493, US6257728, US6190558, US6190559, US6142905, US6114408, US6038234, US6025279, US6060740, US6257729, US5856164, US5734112, US5543304, US5309290, US5309315, US4691124, US4640751