The Quadralux Q4 is a medium, architectural-grade spotlight that combines technology and performance in a modern form factor. Packed with features including **EasyGlow™** visual comfort, and **CoolDrive™** thermal management technologies. **PowerSync™** allows for highly granular digital control via common protocols. Unique and flexible mounting with glare control accessories enable installation in multiple orientations. Designer optics, provide superb color-over-angle consistency and color blending even at close distances. Available in white, color-changing and tunable white light engines.

Performance

Static White & Color[1]	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
2,700 K (80 CRI)	5,170	90	202,800
3,000 K (80 CRI)	5,430	95	227,800
3,500 K (80 CRI)	5,790	101	238,700
4,000 K (80 CRI)	5,800	102	221,900
5,000 K (70 CRI)	5,320	93	223,700

[1] Lumen output values are based on a 6º lens

Dynamic Color[2]	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
RGBA	2,600	48	82,600
RGBW (4,000 K) with Royal Blue*	3,060	55	113,000

[2] Lumen output values based on an 6° lens

Tunable White[3]	Lumen Output (lm)	Efficacy (lm/W)	Peak Intensity (cd)
2,700 K – 6,500 K	5,290	92	209,100

[3] Lumen output values based on an 6° lens

Beam Angles	6º, 10º, 15º, 30º, 45º, 65º, 10º x 40º, 40º x 10º, 10º x 60º, 60º x 10º, 20º x 40º, 40º x 20º, 20º x 60º, 60º x 20º

* NOTE:

The default RGBW colors have recently changed to the RGBW with Royal Blue (4BW code). These colors will not match existing products with the earlier RGBW with Mid-Blue (4CW code). Contact Lumascape for custom LED Colors.

p⚬wersync® easyglow™ cooldrive™ microantileach™

Electrical

Power Consumption	≤ 58 W
Lifetime	> 60,000 hrs (B10, L70, TM21 Reported)
Input Voltage	International 220 to 240 Vac, 50 Hz North America 120/277 Vac, 60 Hz
Earth Leakage	0.3 mA @ 120 Vac, 0.4 mA @ 240 Vac, 0.6 mA @ 277 Vac
Thermal Management	CoolDrive™ onboard thermal monitoring and control

Control

Interface	Lumascape **PowerSync®**
Protocols[1]	DMX/RDM, Artnet, PWM[2], 0 - 10 V (sink or source)[2]
PWM Frequency	2 kHz flicker-free dimming to 0.1%
RDM Functionality	PowerSync enabled Lumascape luminaires are shipped with a default RDM personality which provides smooth dimming control. For different dimming characteristics or to enable other special functionalities, the default personality can be changed through industry standard DMX/RDM.
Systems	Range of third-party controllers

[1] Some protocols require additional hardware. For more information and other available protocols contact Lumascape.
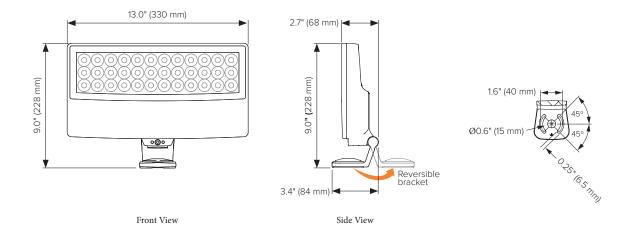[2] Not available for color-changing or tunable white

Physical

Housing	Marine-grade die-cast aluminum, tempered glass lens, isolated stainless-steel fasteners, constant torque adjustable mounting bracket (lockable and reversible)
Finish	Superior 9-step powder-coating process, including marine-grade epoxy undercoat and polyester top-coat
Installation	Surface-mounted with included galvanic isolator and safety cable attachment point
Adjustable	Constant torque adjustable mounting bracket, lockable and reversible
Ambient Operating Temperature	-40°F to 122°F (-40°C to 50°C)
Surface Temperature	≤138°F (59°C)
Weight	5.2 lb (2.4 kg)
Effective Projected Area	0.6 ft^2 (0.1 m^2)

Certification & Compliance

IP Rating	IP66 / IP67 (Passes IP68 test)
IK Rating	IK8
Vibration Resistance	3G Rating (ANSI C136.31)
Environment	Dry, Damp, Wet locations
Certifications	ETL, CE, UKCA, RCM, FCC

Dimensions

13.0" (330 mm)

9.0" (228 mm)

Front View

2.7" (68 mm)

9.0" (228 mm)

3.4" (84 mm)

Reversible bracket

Side View

1.6" (40 mm)

Ø0.6" (15 mm)

45°

45°

0.25" (6.5 mm)

Mounting

9.0" (228 mm)

5.1" (130 mm)

50°

120°

Reverse Horizontal Mounting

4.0" (103 mm)

7.5" (191 mm)

30°

140°

Reverse Vertical Mounting

9.0" (228 mm)

3.3" (84 mm)

25°

160°

Standard Horizontal Mounting

4.0" (103 mm)

10.1" (256 mm)

70°

115°

Standard Vertical Mounting

Specification Matrix

| LS9140 | – | 50D | ☐ | ☐ | ☐ | ☐ | PS | ☐ | 006 |

Light Engine	Code
50 W	50D

Static White & Color	Code
2,700 K (80 CRI)	827
3,000 K (80 CRI)	830
3,500 K (80 CRI)	835
4,000 K (80 CRI)	840
5,000 K (70 CRI)	750

Dynamic Color	Code
RGBA	4CA
RGBW with Royal Blue	4BW[1]

[1] The default RGBW colors have recently changed to the RGBW with Royal Blue (4BW code). These colors will not match existing products with the earlier RGBW with Mid-Blue (4CW code). Contact Lumascape for custom LED Colors.

Tunable White	Code
2,700 K - 6,500 K	2WT

Beam Angles	Code
6°	VN
10°	NR
15°	NM
30°	ME
45°	WD
65°	WF
10° x 40°	NH
40° x 10°	NV
10° x 60°	LH
60° x 10°	LV
20° x 40°	MH
40° x 20°	MV
20° x 60°	WH
60° x 20°	WV

Input Voltage	Code
220 to 240 Vac, 50 Hz (International)	01
120/277 Vac, 60 Hz (North America)	09

Connection Type	Code
Flexible, single entry cable for hardwired installations	84
Flexible, single entry cable for connectorized installations (International)	77

Control	Code
PowerSync®	PS[1]

[1] Required on all dimming and color-changing applications. LS6540 PowerSync Data Injector required (order separately).

Finish	Code
Black	BL
Anthracite Gray	AG
Basalt Gray	BT
Graphite Gray	GH
Anodic Silver	SL
White	WT
Dark Bronze	DB
Latte	LT
Dark Aluminum	DA
Custom RAL	CC[1]

[1] RAL color required

Cable Length	Code
6' (1.8 m)	006

For custom cable lengths, contact Lumascape for more information.

Beam Orientation for "LH", "NH", "MH" and "WH"
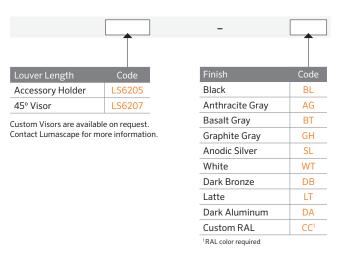
Beam Orientation for "LV", "NV", "MV" and "WV"

Accessories

Shielding & Glare Control
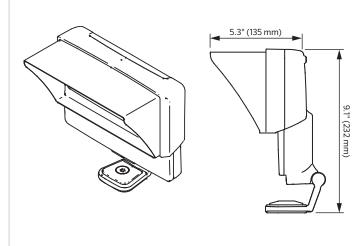A range of shielding and glare control accessories are available to suit the Quadralux Q4 Spotlight.

LS6207 45º Visor
Provides additional beam control and shielding.

LS6206 Cross Hatch Louver
Provides additonal glare control. Available in black only.

LS6205 Accessory Holder
Provides easy and robust attachment for a variety of accessories.

Specification Matrix

	–	

Louver Length	Code
Accessory Holder	LS6205
45º Visor	LS6207

Custom Visors are available on request. Contact Lumascape for more information.

Finish	Code
Black	BL
Anthracite Gray	AG
Basalt Gray	BT
Graphite Gray	GH
Anodic Silver	SL
White	WT
Dark Bronze	DB
Latte	LT
Dark Aluminum	DA
Custom RAL	CC[1]

[1] RAL color required

Technical Drawings

5.3" (135 mm)

9.1" (232 mm)

Mounting & InstallationAccessories

Junction Box Adapter
(includes Surface Mounting Kit)

Allows the product to be installed onto a standard UL Junction Box. Can also be used as a neat method of surface mounting in regions other than North America.

Pole Clamp

Provides an easy method of installing the luminaire onto a pole, while retaining full aiming and adjustability. Available in 3.0" (76 mm), 4.0" (102 mm), 4.5" (114 mm) and 5.0" (127 mm) options.

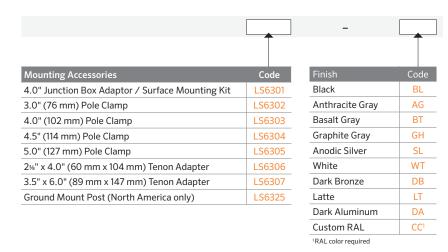### Tenon Adapter

Available in 2⅜" x 4.0" (60 mmm x 104 mm) and 3½" x 6.0" (89 mm x 147 mm) options. Contact Lumascape for more information.

4.5" (115 mm) option shown

2⅜" x 4" (89 mm x 147 mm) option shown

Specification Matrix

Mounting Accessories	Code
4.0" Junction Box Adaptor / Surface Mounting Kit	LS6301
3.0" (76 mm) Pole Clamp	LS6302
4.0" (102 mm) Pole Clamp	LS6303
4.5" (114 mm) Pole Clamp	LS6304
5.0" (127 mm) Pole Clamp	LS6305
2⅜" x 4.0" (60 mm x 104 mm) Tenon Adapter	LS6306
3.5" x 6.0" (89 mm x 147 mm) Tenon Adapter	LS6307
Ground Mount Post (North America only)	LS6325

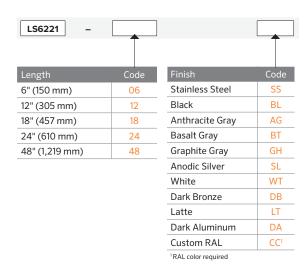| Finish	Code
Black	BL
Anthracite Gray	AG
Basalt Gray	BT
Graphite Gray	GH
Anodic Silver	SL
White	WT
Dark Bronze	DB
Latte	LT
Dark Aluminum	DA
Custom RAL	CC[1]

[1] RAL color required

Mounting Accessories

A stand off bracket, allows the luminaire to be installed off the facade. Manufactured from marine-grade 316 stainless steel for long-life in the harshest and isolated environments. Available in five length options and suitable for use with the Quadralux and Linealux luminaires.
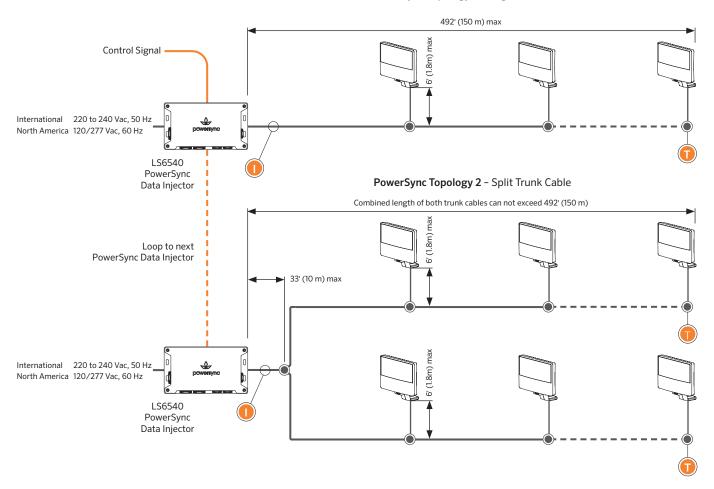

MOUNTING OPTION A

MOUNTING OPTION B

Specification Matrix

| LS6221 | – | | | |

Length	Code
6" (150 mm)	06
12" (305 mm)	12
18" (457 mm)	18
24" (610 mm)	24
48" (1,219 mm)	48

Finish	Code
Stainless Steel	SS
Black	BL
Anthracite Gray	AG
Basalt Gray	BT
Graphite Gray	GH
Anodic Silver	SL
White	WT
Dark Bronze	DB
Latte	LT
Dark Aluminum	DA
Custom RAL	CC[1]

[1] RAL color required

Network Topology – Line Voltage 220 to 240 Vac, 120/277 Vac Dimmable and Color-Changing via PowerSync® 4

PowerSync Topology 1 - Single Trunk Cable

492' (150 m) max

6' (1.8m) max

Control Signal

International 220 to 240 Vac, 50 Hz
North America 120/277 Vac, 60 Hz

LS6540
PowerSync
Data Injector

PowerSync Topology 2 – Split Trunk Cable

Combined length of both trunk cables can not exceed 492' (150 m)

6' (1.8m) max

Loop to next
PowerSync Data Injector

33' (10 m) max

International 220 to 240 Vac, 50 Hz
North America 120/277 Vac, 60 Hz

LS6540
PowerSync
Data Injector

6' (1.8m) max

Up to 45 luminaires per run under the following conditions:

- Max total cable run length 492' (150 m) in up to two trunk cables.
- For run lengths in excess of 100' (30 m), the data wire gauge cannot exceed 14 AWG (2.5 mm^2).
- For run lengths up to 100' (30 m), the data wire gauge is not governed.
- Refer to 'Maximum Circuit Load' table for circuit limitations.
- Always observe local electrical codes for branch circuit current limitations.

Maximum Circuit Load

Maximum Number of Fixtures per Circuit		
	Maximum Current	
Voltage	**12.8 A**	**16 A**
120 V	20	28
240 V	45	45
277 V	45	45

Refer to PowerSync™ installation instructions for maximum distance information and topology options.

Above circuit loading limits are based on maximum circuit current capacity. Cumulative earth leakage and voltage drop may need to be calculated.

For non-continuous runs contact Lumascape for more details.

T Terminator
Use PowerSync™ terminator, supplied with leader cable to terminate last luminaire in chain.

I Maximum Current
Maximum current through cables and connectors supplied by Lumascape:
≤12.8 A – Installations in North American Market (UL, ETL)
≤16 A – Installations in International Market (CE, UKCA, CCC)
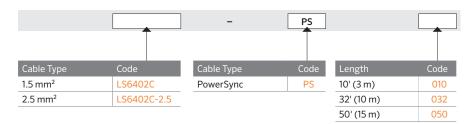
Connection Type
Circuits can be configured as either connectorized or hardwired. For details refer to installation instructions and comply with local electrical codes.

Connectorized Accessories – Line Voltage 220 to 240 Vac

Leader Cables – PowerSync Line Voltage 220 to 240 Vac (For Connection Type 77 Only)
4-core 1.5 mm^2 or 2.5mm^2 for use in CE/CCC installations. Compatible with all luminaires with Type 77 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit. Comes complete with a matching End of Circuit, Powersync4, Line Voltage, Terminator Plug.
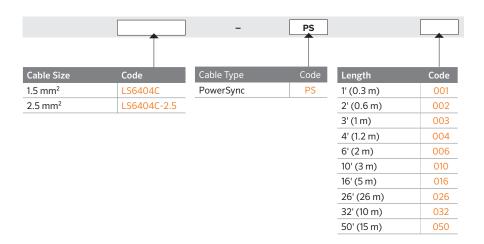
Not suitable for use in North America

		–	**PS**		

Cable Type	Code	Cable Type	Code	Length	Code
1.5 mm^2	LS6402C	PowerSync	PS	10' (3 m)	010
2.5 mm^2	LS6402C-2.5			32' (10 m)	032
				50' (15 m)	050

Jumper Cables – PowerSync Line Voltage 220 to 240 Vac (For Connection Type 77 Only)
4-core 1.5 mm^2 or 2.5mm^2 for use in CE/CCC installations. Compatible with all luminaires with Type 77 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit.

Not suitable for use in North America

		–	**PS**		

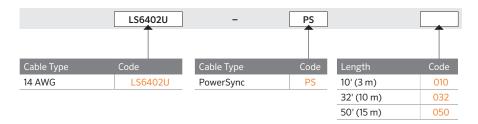| Cable Size	Code	Cable Type	Code	Length	Code
1.5 mm^2	LS6404C	PowerSync	PS	1' (0.3 m)	001
2.5 mm^2	LS6404C-2.5			2' (0.6 m)	002
				3' (1 m)	003
				4' (1.2 m)	004
				6' (2 m)	006
				10' (3 m)	010
				16' (5 m)	016
				26' (26 m)	026
				32' (10 m)	032
				50' (15 m)	050

Connectorized Accessories – Line Voltage 120/277 Vac

Leader Cables – PowerSync Line Voltage 120/277 Vac (For Connection Type 77 Only)
4 conductors 14 AWG for use in UL installations. Compatible with Type 77 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit. Comes complete with a matching End of Circuit, Powersync4, Line Voltage, Terminator Plug.
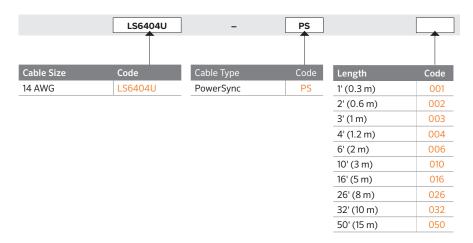
For use in North America ONLY

| **LS6402U** | **–** | **PS** | |

Cable Type	Code	Cable Type	Code	Length	Code
14 AWG	LS6402U	PowerSync	PS	10' (3 m)	010
				32' (10 m)	032
				50' (15 m)	050

Jumper Cables – PowerSync Line Voltage 120/277 Vac (For Connection Type 77 Only)
4-core 14 AWG for use in UL installations. Compatible with all Luminaires with Type 77 connectorized supply cable options. Supplied fitted with an IP68 connector for pairing with the first connectorized luminaire in a Powersync4, Line Voltage circuit.

For use in North America ONLY

| **LS6404U** | **–** | **PS** | |

Cable Size	Code	Cable Type	Code	Length	Code
14 AWG	LS6404U	PowerSync	PS	1' (0.3 m)	001
				2' (0.6 m)	002
				3' (1 m)	003
				4' (1.2 m)	004
				6' (2 m)	006
				10' (3 m)	010
				16' (5 m)	016
				26' (8 m)	026
				32' (10 m)	032
				50' (15 m)	050

Connectorized Accessories

Terminators

Product	Code
DMX Terminator Hardwired (CCC, CE, UL)	LS6407
PowerSync Terminator Hardwired, Line Voltage 220 to 240 Vac, (CE, CCC)	LS6406-01
PowerSync Terminator Hardwired, Line Voltage 120/277 Vac (UL)	LS6406-09
PowerSync Terminator Connectorized, Line Voltage 220 to 240 Vac, 120/277 Vac (CCC, CE, UL)	LS6417

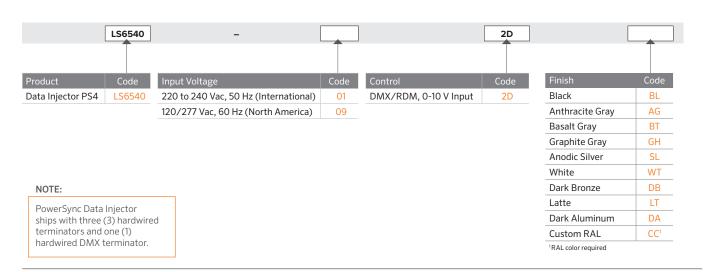*** NOTE:**

- DMX Terminators ship with PowerSync Data Injectors.
- Terminators for hardwired PowerSync installations ship with PowerSync Data Injectors.
- Terminators for connectorized PowerSync installations ship with Leader Cables.
- Order separately for spares only.

PowerSync Line Voltage 220 to 240 Vac, 120/277 Vac Data Injector

Combines the convenience of standard wiring methods to translate control signals into a digital format that can be transmitted over standard copper wire. This allows highly granular addressing and high-speed digital control of every luminaire, using only four wires and accepts a growing list of standard protocols (0-10 V, DMX / RDM), for simple integration with a wide selection of control systems using these industry standard protocols.

LS6540	–			2D		

Product	Code	Input Voltage	Code	Control	Code	Finish	Code
Data Injector PS4	LS6540	220 to 240 Vac, 50 Hz (International)	01	DMX/RDM, 0-10 V Input	2D	Black	BL
		120/277 Vac, 60 Hz (North America)	09			Anthracite Gray	AG
						Basalt Gray	BT
						Graphite Gray	GH
						Anodic Silver	SL
						White	WT
						Dark Bronze	DB
						Latte	LT
						Dark Aluminum	DA
						Custom RAL	CC[1]

[1] RAL color required

NOTE:

PowerSync Data Injector ships with three (3) hardwired terminators and one (1) hardwired DMX terminator.

Luminaire Wire Colors & Designations

Line Voltage 220 to 240 Vac – International

Designation	Color
Line	Brown
Neutral	Blue
Ground/Earth	Green / Yellow
Data	Black

Line Voltage 120/277 Vac – North America

Designation	Color
Line	Black
Neutral	White
Ground/Earth	Green / Yellow
Data	Orange or Red