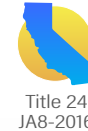




iQ LED TAPE LIGHT **2835 CHIP SERIES**

**iQ20 4.4 W/ft CRI 90**

DRY RATED



Q-Tran's iQ20 Tape Light is suitable for indoor, dry locations, easy to install and can be cut to specification at Q-Tran. Changes can also be made or in the field. It is currently available in 2500K, 2700K, 3000K, 3500K, and 4000K. iQ20 2835 Chip Tape Light is available in 4.4 W/ft CRI 90 & 95. It is ideal for cove lighting, cabinet lighting, office shelves, wine racks, accents, toekicks, retail displays and more.

**iQ20** -  - **28** - **90** - **4.4**

iQ Series    Color Temp    Chip    CRI    Watts Per FT    Length

**FEATURES**

- LED life time - 40,000 hours
- Operating temperature: -4°F ~ +113°F
- Suitable for dry location
- Lead wire rated for Plenum and In-Wall use
- Non-Ferrous Material
- 1.97" cut points
- Field cuttable
- 3 year warranty
- CA Title 24 JA8-2016 Compliant\*\*

**iQ20-25-28-90-4.4**

Max Run / Reel Length: 21ft\* | ColorTemp: 2500K | Voltage: 24VDC  
CRI: 90+ | LM: 79 | Watts Per Ft: 4.4 | Lumens Per Ft: 298

**iQ20-27-28-90-4.4**

Max Run / Reel Length: 21ft\* | ColorTemp: 2700K | Voltage: 24VDC  
CRI: 90+ | LM: 79 | Watts Per Ft: 4.4 | Lumens Per Ft: 317

**iQ20-30-28-90-4.4**

Max Run / Reel Length: 21ft\* | ColorTemp: 3000K | Voltage: 24VDC  
CRI: 90+ | LM: 79 | Watts Per Ft: 4.4 | Lumens Per Ft: 355

**iQ20-35-28-90-4.4**

Max Run / Reel Length: 21ft\* | ColorTemp: 3500K | Voltage: 24VDC  
CRI: 90+ | LM: 79 | Watts Per Ft: 4.4 | Lumens Per Ft: 354

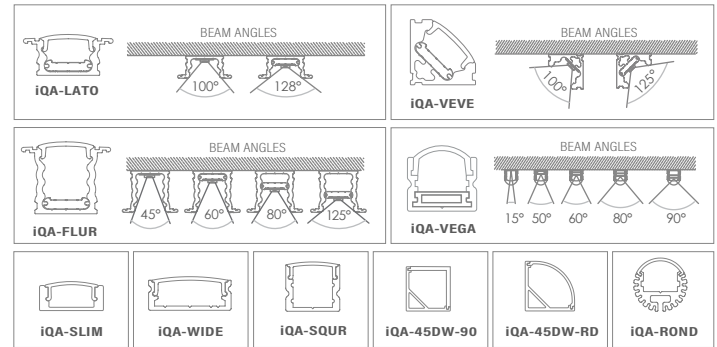
**iQ20-40-28-90-4.4**

Max Run / Reel Length: 21ft\* | ColorTemp: 4000K | Voltage: 24VDC  
CRI: 90+ | LM: 79 | Watts Per Ft: 4.4 | Lumens Per Ft: 352

\*Maximum length for one run of iQ20 LED 4.4. Individual Power supply cut sheets will provide max distance/loads per power supply.

\*\*Tested with Q-Tran iQ-PH-80 power supply

**COMPATIBLE EXTRUSIONS**

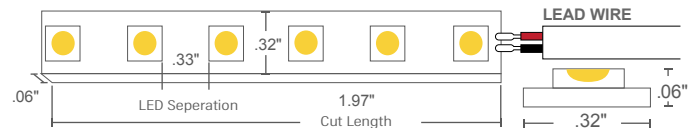


**COMPATIBLE POWER SUPPLIES**

**Indoor**

- QJB-DC, QJBL-DC, QJBL-DC+CAP
- Q6S-DC, Q6M-DC+CAP
- QTM-DC, QTM-DC+CAP
- QTM-eLED, QTM-eLED(L), QTM-eLED(E)
- iQ-PH

**DIMENSIONS**



- NOTE**
- Q-Tran offers multiple LED Chip offerings based upon size and pitch, each utilizing its own binning. Utilization of multiple outputs within the same chip family will ensure flawless color matching and similar overall diffusion.
  - Field modifications of factory installed LEDs are not covered under Q-Tran warranty.

Cut marks of LED tape allows for changes in the field.

**4.4 watts per foot = cut every 1.97"**

Lead wire comes standard on all LEDs in 18" (18/2 AWG)



2017.V02

PROJECT NAME	DATE	COMPANY	TYPE	NOTE



# iQ LED PHOTOMETRIC

## iQ20 4.4 W/Ft

### iQ20-25-28-90-4.4

Light efficiency:

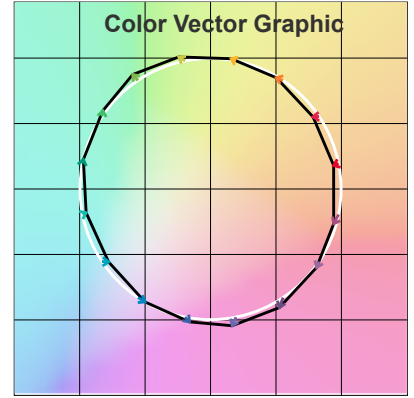
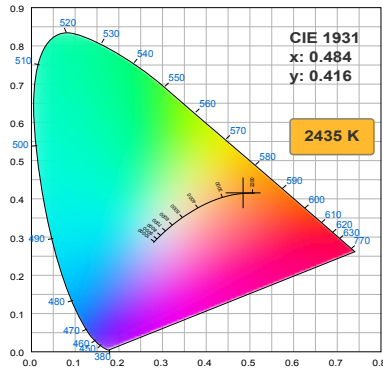
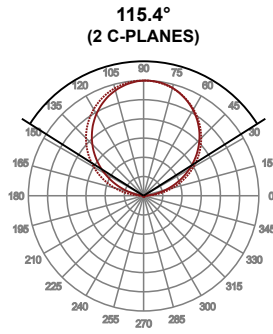
**68 Lumen/Watt**

CRI:

**91.8**

Color temperature:

**2435K**



Electrical Test Condition for 1 foot

**Output:** 298 lm/ft **Peak:** 99.2 cd **Power:** 4.4 W/ft **24V@ 0.18A**

#### COLOR PARAMETERS

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2435 K	91.8	60.7	89.3	101.7	87.3	0.484	0.416	0.276	0.356	0.0007

CRI R Values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
92.7	94.4	93.7	93.2	91.3	93.2	93.1	82.7	60.7	84.9	93.7	78.4	93.1	95.0	88.5

#### BEAM DETAILS

Beam angle 50%	Field angle 50%	Cutoff angle 2.5%	Intensity ratio in 120°cone	Intensity ratio in 90°cone
115.4°	163.7°	174.7°	0.8%	0.5%

Beam Intensities in Footcandles (from 1-20m)

3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
9.2	2.3	1	0.6	0.4	0.3	0.2	0.1	0.1	0.1

Hue Bin	R <sub>f</sub>	Graphics Shift	
		Chroma	Hue
1	90	-4%	-1%
2	90	-4%	3%
3	84	-1%	7%
4	90	1%	5%
5	92	4%	5%
6	90	6%	1%
7	90	2%	-5%
8	93	0%	-4%
9	94	-3%	-1%
10	90	-4%	4%
11	87	0%	8%
12	86	3%	5%
13	90	6%	-5%
14	84	5%	-8%
15	91	1%	-6%
16	85	-2%	-10%

### iQ20-27-28-90-4.4

Light efficiency:

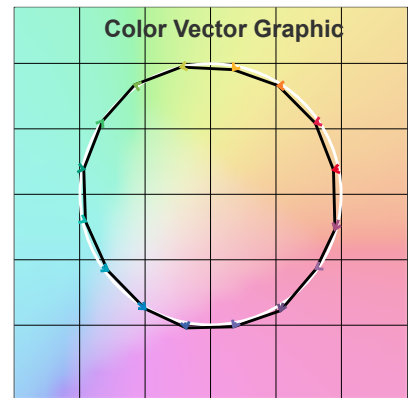
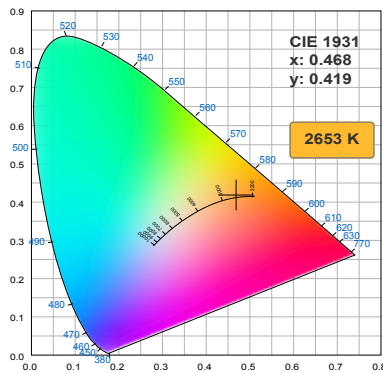
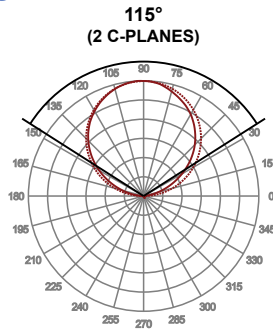
**72 Lumen/Watt**

CRI:

**93.3**

Color temperature:

**2653K**



Electrical Test Condition for 1 foot

**Output:** 317 lm/ft **Peak:** 107 cd **Power:** 4.4 W/ft **24V@ 0.18A**

#### COLOR PARAMETERS

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
2653 K	93.3	66.8	91.6	99.2	90.9	0.468	0.419	0.264	0.355	0.0025

CRI R Values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.1	94.9	93.7	95.3	92.6	93.7	95.5	86.4	66.8	86.1	95.9	76.8	94.1	95.2	90.1

#### BEAM DETAILS

Beam angle 50%	Field angle 50%	Cutoff angle 2.5%	Intensity ratio in 120°cone	Intensity ratio in 90°cone
115°	163.4°	174.6°	0.8%	0.5%

Beam Intensities in Footcandles (from 1-20m)

3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
9.9	2.5	1.1	0.6	0.4	0.3	0.2	0	0.1	0.1

Hue Bin	R <sub>f</sub>	Graphics Shift	
		Chroma	Hue
1	91	-4%	0%
2	93	-3%	1%
3	91	-2%	4%
4	93	-3%	2%
5	94	0%	4%
6	95	2%	2%
7	95	0%	-1%
8	98	-1%	0%
9	94	-2%	2%
10	89	-2%	6%
11	87	1%	9%
12	89	4%	2%
13	93	3%	-3%
14	89	4%	-6%
15	93	-1%	-3%
16	86	-1%	-10%



# iQ LED PHOTOMETRIC

## iQ20 4.4 W/Ft

### iQ20-30-28-90-4.4

Light efficiency:

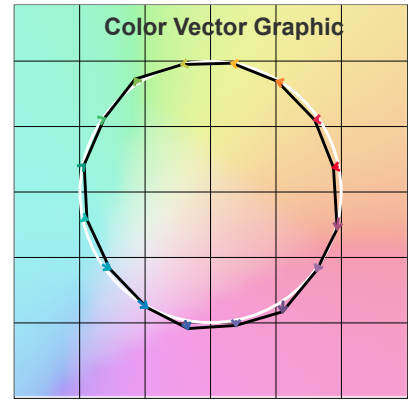
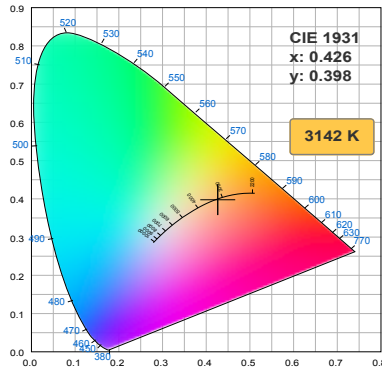
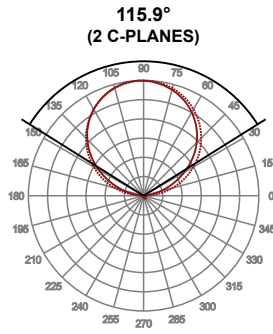
**81 Lumen/Watt**

CRI:

**92.8**

Color temperature:

**3142K**



Electrical Test Condition for 1 foot

**Output:** 355 lm/ft **Peak:** 117 cd **Power:** 4.4 W/ft **24V@ 0.18A**

#### COLOR PARAMETERS

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3142 K	92.8	68.5	89.6	101.1	90.1	0.426	0.398	0.246	0.345	0.0010

#### CRI R Values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
94.0	95.0	93.6	93.6	92.5	92.4	94.5	87.2	68.5	86.1	93.1	73.5	94.3	95.5	91.6

#### BEAM DETAILS

Beam angle 50%	Field angle 50%	Cutoff angle 2.5%	Intensity ratio in 120°cone	Intensity ratio in 90°cone
115.9°	163.7°	214.9°	0.8%	0.5%

#### Beam Intensities in Footcandles (from 1-20m)

3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
10.8	2.7	1.2	0.7	0.4	0.3	0.2		0.1	0.1

Hue Bin	R <sub>f</sub>	Graphics Shift	
		Chroma	Hue
1	91	-4%	0%
2	92	-3%	2%
3	87	-1%	6%
4	91	0%	4%
5	91	0%	3%
6	93	4%	0%
7	93	-1%	-2%
8	96	-1%	-2%
9	93	-3%	3%
10	84	-3%	8%
11	82	1%	11%
12	87	6%	4%
13	92	4%	-1%
14	88	7%	-6%
15	90	1%	-6%
16	84	1%	-11%

### iQ20-35-28-90-4.4

Light efficiency:

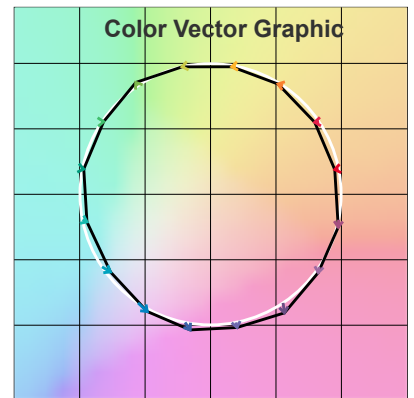
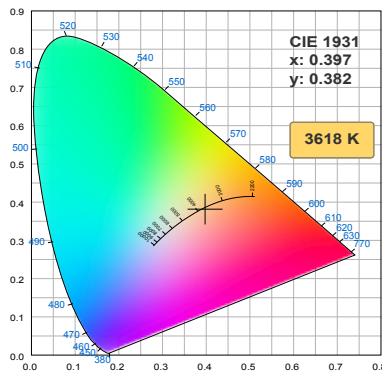
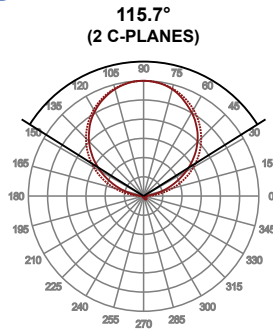
**81 Lumen/Watt**

CRI:

**93.7**

Color temperature:

**3618K**



Electrical Test Condition for 1 foot

**Output:** 354 lm/ft **Peak:** 116 cd **Power:** 4.4 W/ft **24V@ 0.18A**

#### COLOR PARAMETERS

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
3618 K	93.7	75.4	89.7	100.8	91.3	0.397	0.382	0.234	0.338	0.0020

#### CRI R Values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.2	95.5	92.9	94.3	93.6	92.0	95.6	90.6	75.4	86.9	93.4	71.8	95.4	95.2	94.1

#### BEAM DETAILS

Beam angle 50%	Field angle 50%	Cutoff angle 2.5%	Intensity ratio in 120°cone	Intensity ratio in 90°cone
115.7°	163.9°	214.2°	0.8%	0.5%

#### Beam Intensities in Footcandles (from 1-20m)

3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
10.8	2.7	1.2	0.7	0.4	0.3	0.2		0.1	0.1

Hue Bin	R <sub>f</sub>	Graphics Shift	
		Chroma	Hue
1	92	-3%	0%
2	93	-3%	2%
3	88	-1%	5%
4	91	-1%	4%
5	91	0%	3%
6	94	3%	0%
7	95	-1%	-1%
8	95	-1%	0%
9	92	-3%	3%
10	84	-3%	9%
11	81	2%	12%
12	85	5%	6%
13	93	4%	0%
14	88	7%	-4%
15	90	2%	-5%
16	87	1%	-7%



# iQ LED PHOTOMETRIC

## iQ20 4.4 W/Ft

### iQ20-40-28-90-4.4

Light efficiency:

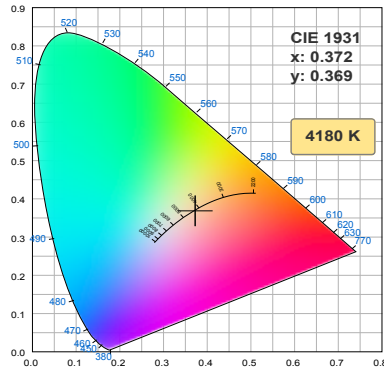
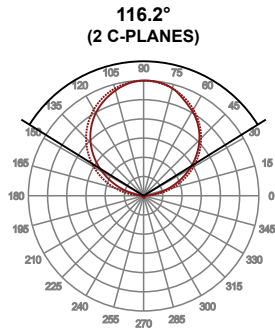
**80 Lumen/Watt**

CRI:

**94.4**

Color temperature:

**4180K**



Electrical Test Condition for 1 foot

**Output:** 352 lm/ft **Peak:** 116 cd **Power:** 4.4 W/ft **24V@ 0.18A**

#### COLOR PARAMETERS

CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	Δuv
4180 K	94.4	78.8	89.2	99.2	91.6	0.372	0.369	0.223	0.331	0.0011

#### CRI R Values, only R1-R8 are used to calculate final CRI value

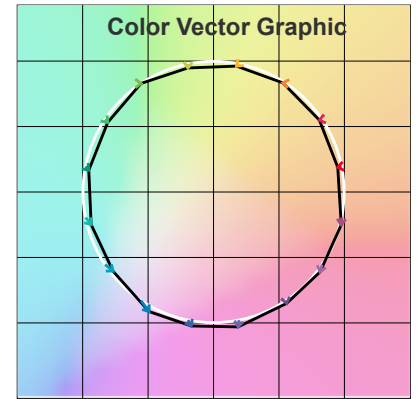
R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
95.7	96.4	94.0	94.6	93.6	92.3	96.6	91.9	78.8	88.8	93.8	67.8	96.3	96.1	94.6

#### BEAM DETAILS

Beam angle 50%	Field angle 50%	Cutoff angle 2.5%	Intensity ratio in 120° cone	Intensity ratio in 90° cone
116.2°	164.2°	175.2°	0.8%	0.5%

#### Beam Intensities in Footcandles (from 1-20m)

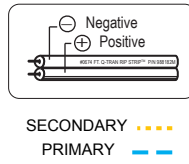
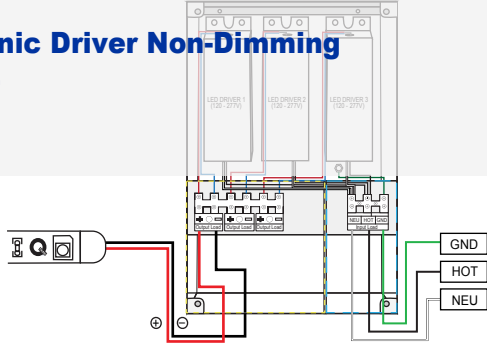
3.3ft	6.6ft	9.8ft	13.1ft	16.4ft	19.7ft	23ft	26.2ft	29.5ft	32.8ft
10.8	2.7	1.2	0.7	0.4	0.3	0.2		0.1	0.1



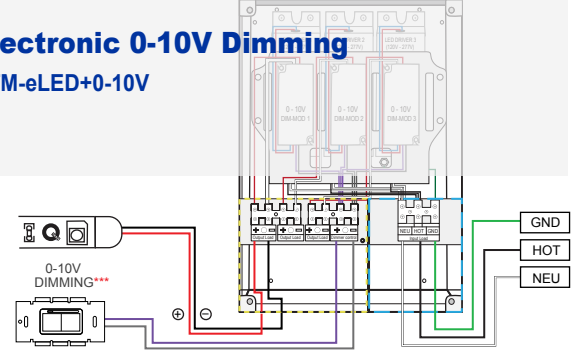
Hue Bin	R <sub>f</sub>	Graphics Shift	
		Chroma	Hue
1	91	-3%	0%
2	94	-2%	1%
3	91	-1%	3%
4	91	-2%	2%
5	90	-3%	1%
6	95	0%	0%
7	94	-3%	1%
8	92	-3%	3%
9	88	-3%	8%
10	82	-2%	10%
11	80	4%	12%
12	89	4%	4%
13	92	5%	-2%
14	94	2%	-1%
15	87	2%	-7%
16	86	1%	-7%

# iQLED IP20 DRY RATED COMPATIBLE POWER SUPPLIES

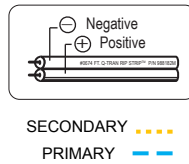
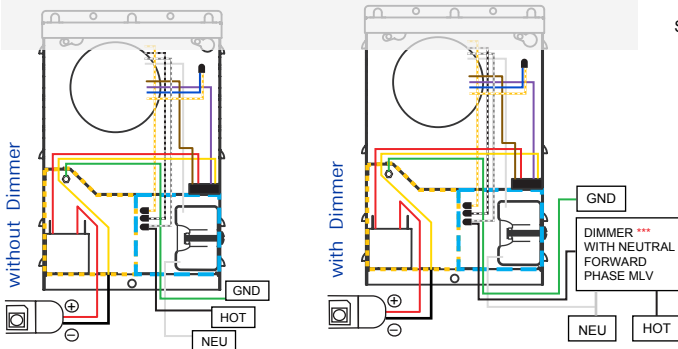
## Electronic Driver Non-Dimming QTM-eLED



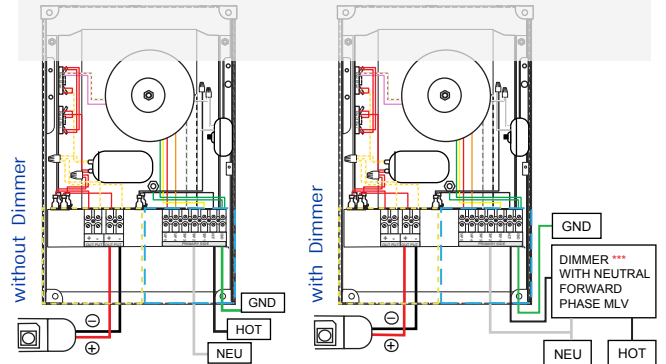
## Electronic 0-10V Dimming QTM-eLED+0-10V



## Magnetic: Q6S-DC or QTM-DC

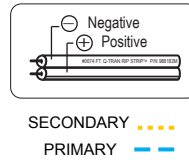
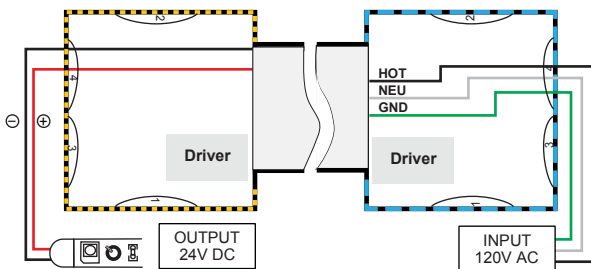


## Magnetic: Q6M-DC+CAP or QTM-DC+CAP



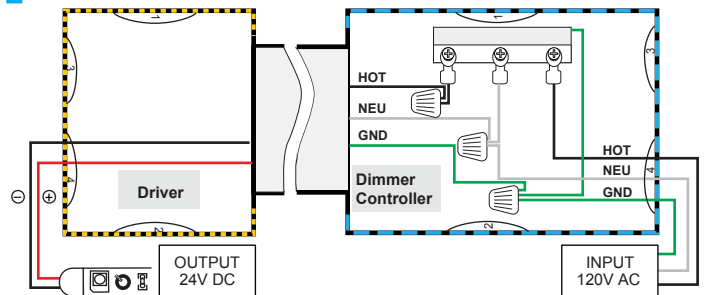
## Phase Controlled Dimming

Compatible with external dimmer or switch  
iQ-PH

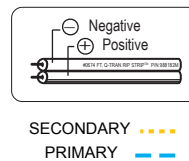
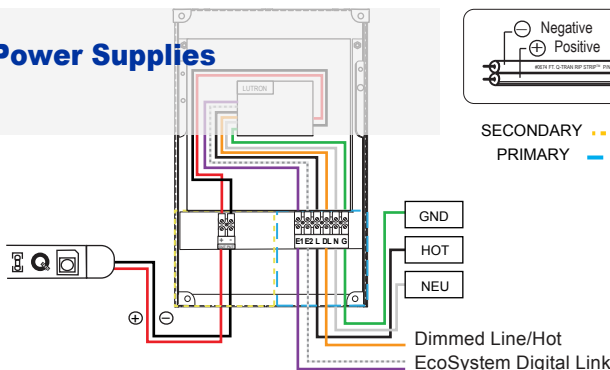


## Phase Controlled Dimming

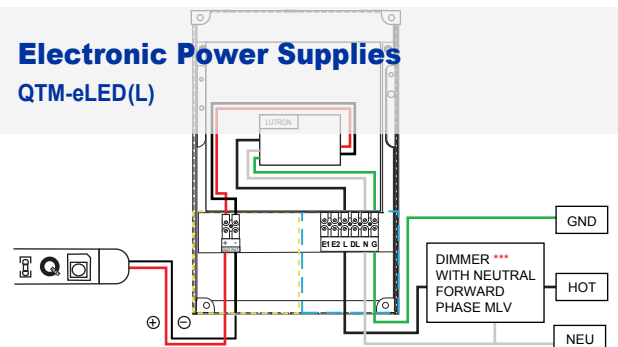
With built in dimmer  
iQ-PH+QD1



## Electronic Power Supplies QTM-eLED(E)



## Electronic Power Supplies QTM-eLED(L)



\*\*\*Customer provided