

# QUANTUM 2 SQUARE 1414

## CH-S-1414



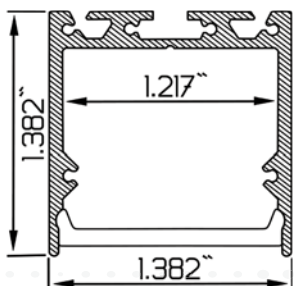
### Description

The Quantum 2 SQUARE 1414 Channel is a frosted lensed aluminum channel fixture that is powered by Quantum 2 High Density 19 LED tape light. It is dimmable, suspended and surface mountable, and is perfect for lighting up kitchens, conference tables and lobbies.

# Specifications

<b>Colors Available</b>	RGB	<b>Material</b>	Anodized Aluminum		
	2700K Ultra Warm White		<b>LED Chip</b>	SMD 2835 / RGB: SMD 5050	
	3000K Warm White			<b>Mounting</b>	Suspended & Surface Mount
3500K Neutral White	<b>Operating Temp.</b>	32°F-122°F, relative humidity			
4000K Daylight White		<b>Power Consumption</b>	8 Watts/Foot	<b>Max Length</b>	8.2 FT
<b>Lens Diffusion</b>	100% (No LEDs are visible)	<b>Input Voltage</b>	24V DC	<b>Dimensions WxH</b>	1.4" x 1.4"
<b>Lamp Life</b>	50,000 Hours	<b>Environment</b>	Indoor, Dry	<b>Certifications</b>	US LISTED
<b>Color Tolerance</b>	±100K	<b>Light Distribution</b>	120°	<b>Warranty</b>	5 Year Limited
<b>Can It be cut?</b>	Yes. Every 3-9/32" Inches	<b>Dimming</b>	Yes - See our Dimmer Compatibility List		

COLOR (K)	LUMENS (per ft)	EFFICACY (LM/W)	CRI/Ra	R9	TM-30-15	
					Rf	Rg
4000K	430	54	90+	77	93	103
3500K	423	53	90+	77	93	103
3000K	409	51	90+	77	93	103
2700K	373	4547	90+	77	93	103

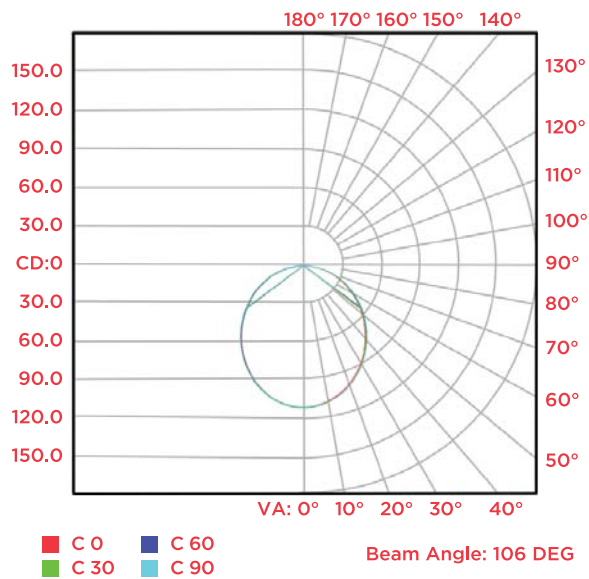


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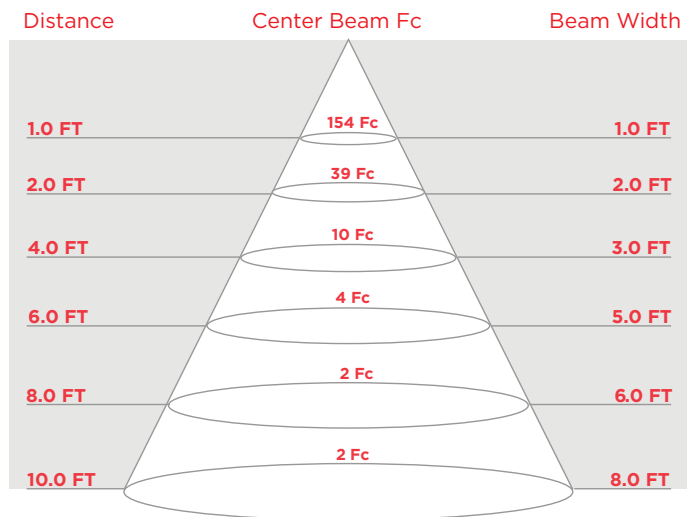
## Photometrics

### Polar Candela Distribution



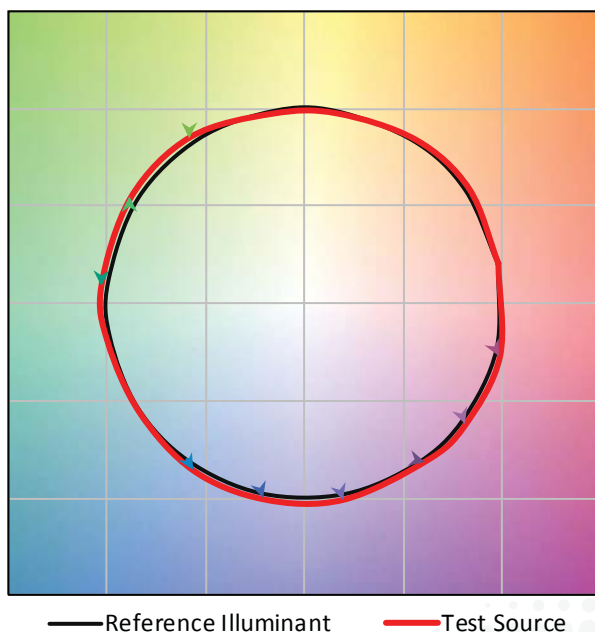
### Illumination at a Distance

Beam Spread: 104 °



Tested with a 1FT piece at 4000K

### TM 30-15



Hue Bin	Fidelity Index	Chroma Change
1	95	0%
2	95	2%
3	95	1%
4	96	-1%
5	94	-1%
6	92	3%
7	92	3%
8	91	3%
9	94	2%
10	95	1%
11	89	3%
12	92	3%
13	94	3%
14	90	2%
15	92	3%
16	91	2%

# ACCESSORIES QUANTUM 2 SQUARE 1414 CH-S-1414



**Electronic MLV & Incandescent Dimmable 120VAC Drivers**  
20W, 40W, 60W, & 96W:  
#DR-XXW-24VDC-120V-2-MLV



**Electronic 0-10V Dimmable 120-277VAC Drivers**  
60&100W: #DR-XXW-24VDC-U-2-10  
200W: #DR-200W-24VDC-U-2-10



**Electronic Non-Dimmable 120-277VAC Drivers**  
60&100W: #DR-XXW-24VDC-U-2-10  
200W: #DR-200W-24VDC-U-2-ND



**Low Voltage Wire**  
12 AWG - 18 AWG CL3P  
Contact our Design Team



**Low Voltage Junction Box**  
#JBOX-1  
For extending single color lead wires.



**Quantum 2 Suspension Kits**  
See our attached ordering page



**Extension Connector CH-CON1**  
#CH-CON1



**RGB Components**  
Contact our Design Team

## 3 WAYS TO ORDER QUANTUM CHANNEL

**1** Fixture Kit

An unassembled kit that includes an 8.2FT Channel , frosted lens, High Density LED tape light, driver and surface mount or recessed lighting hardware parts to build your own lighting fixture.

**2** Standard Fixture

Standard preassembled fixture, driver & mounting hardware (except suspension kits) that is available in 2 foot, 4 foot, 6 foot, and 8 foot lengths.

**3** Custom Fixture

Custom preassembled fixture, driver and mounting hardware. This fixture can be a custom length and powder coated to one of 192 RAL colors. Go to: [www.ledi.lighting/custom](http://www.ledi.lighting/custom) to build your own custom Quantum Channel Fixture.

### Driver Options

M120 = Magnetic/Incandescent TRIAC Dimmable 120V AC Input UL-Listed  
 NDIM = Non-Dimmable Electronic 120-277V AC Input UL-Listed  
 O10V = 0-10V Electronic 120-277V AC Input UL-Listed  
 NONE = No driver option †

### SKU Builder

Channel #	KIT/Length	Color	Driver Type	Suspension KIT
CH-A-0606C	KIT (Fixture Kit)	27 (2700K)	M120	O-33
CH-A-1005	2FT	30 (3000K)	NDIM	See next page for list of suspension kit options
CH-A-1212C	4FT	35 (3500K)	O10V	
CH-C-16*	6FT	40 (4000K)	NONE†	
CH-C-24*	8FT	RGB***		
CH-C-48*				
CH-R-1005	See next page for exact optimized lengths			
CH-R-1913				
CH-R-2513				
CH-R-3513				
CH-S-0304				
CH-S-0605				
CH-S-0808K**				
CH-S-1414**				
CH-S-1426**				
CH-S-1436**				
CH-S-1913**				
CH-S-1928**				
CH-S-2930**				
CH-T-2509*				

**Notes:**  
 \* Suspension Kits are REQUIRED for these channels.  
 \*\* Suspension Kits are OPTIONAL for these channels.  
 \*\*\* RGB is only compatible for these channel: CH-C-16, CH-C-24, CH-R-1913, CH-S-1414, CH-S-1426, CH-S-1436, and CH-T-2509.  
**Accessories Note:** All Quantum Accessories such as RGB Components, Remotely Located Drivers and Channel Extension Pieces must be purchased separately.  
 † **Driver Note:** If you want to use one driver to power more than one fixture then select the NONE driver type. You will have to contact our Design Team about your project so they can help you with selecting the correct remotely located drivers.  
**UL Listed Note:** All our LED Drivers for the Custom Quantum Channel are UL Listed in the US and Canada.  
**Design Team Contact:** Contact our Design Team for help via email: [designs@ledinspirations.com](mailto:designs@ledinspirations.com) or phone: 832-717-2710.

# SUSPENSION KITS & CUT LENGTHS



Use the Suspension Kit # for ordering.

Suspension Kit #			Mounting	Shape/Size	Canopy Color	Dimensions (LxWxH)
6FT	12FT	25FT				
0 (No Suspension Kit)			-	-	-	-
1	2	3	Drywall	Round	Brushed Metal	5" x 5"
4	5	6	Drywall	Round	White	5" x 5"
7	8	9	Drywall	Round	Polished Nickel	5" x 5"
10	11	12	Drywall	Square	Brushed Metal	5" x 5"
13	14	15	Drywall	Square	White	5" x 5"
16	17	18	Drywall	Square	Polished Nickel	5" x 5"
19	20	21	Drop Ceiling	Round	White	5" x 5"
22	23	24	Drop Ceiling	Square	White	5" x 5"

Suspension kits come in 3 lengths: 6FT, 12FT, or 25FT.  
For these suspension kits, the LED drivers must be remotely located.

## Standard Fixture Optimized Lengths

In order to minimize shadow spots and create a more beautiful look we build each fixture to an optimized length closest to your desired length.

Channel #	2FT	4FT	6FT	8FT
CH-A-0606C	1' 11-1/32"	3' 9-1/2"	5' 10-13/16"	7' 9-9/32"
CH-A-1005	1' 11-1/32"	3' 9-1/2"	5' 10-13/16"	7' 9-9/32"
CH-A-1212C	1' 11-1/32"	3' 9-17/32"	5' 10-27/32"	7' 9-11/32"
CH-C-16	1' 11-1/2"	3' 10-7/16"	5' 9-13/32"	7' 11-5/8"
CH-C-24	1' 11-1/2"	3' 10-7/16"	5' 9-13/32"	7' 11-5/8"
CH-C-48	1' 8-7/32"	3' 11-3/4"	5' 11-3/8"	7' 10-31/32"
CH-R-1005	1' 11-11/32"	3' 9-13/16"	5' 11-3/32"	7' 9-19/32"
CH-R-1913	1' 8-3/4"	3' 11"	5' 9-15/16"	7' 8-29/32"
CH-R-2513	1' 8-29/32"	3' 8-17/32"	5' 8-5/32"	7' 11-23/32"
CH-R-3513	1' 8-29/32"	3' 8-17/32"	5' 8-1/8"	7' 11-11/16"
CH-S-0304	1' 11-1/32"	3' 9-1/2"	5' 10-13/16"	7' 9-9/32"
CH-S-0605	1' 11"	3' 9-1/2"	5' 10-25/32"	7' 9-9/32"
CH-S-0808K	1' 11-1/32"	3' 9-17/32"	5' 10-27/32"	7' 9-11/32"
CH-S-1414	1' 11-1/2"	3' 10-7/16"	5' 9-3/8"	7' 11-5/8"
CH-S-1426	1' 11-1/2"	3' 10-7/16"	5' 9-3/8"	7' 11-5/8"
CH-S-1436	1' 11-1/2"	3' 10-7/16"	5' 9-13/32"	7' 11-5/8"
CH-S-1913	1' 8-7/32"	3' 11-25/32"	5' 11-13/32"	7' 11-1/32"
CH-S-1928	1' 8-7/32"	3' 11-25/32"	5' 11-13/32"	7' 11-1/32"
CH-S-2930	1' 8-7/32"	3' 11-3/4"	5' 11-3/8"	7' 10-31/32"
CH-T-2509	1' 11-1/2"	3' 10-7/16"	5' 9-13/32"	7' 11-5/8"