

T34 Field-Adjustable Panels



T34FA-2X2 / T34FA-2X2HC



T34FA-1X4 / T34FA-1X4HC



T34FA-2X4 / T34FA-2X4HC



Power & CCT Field-Adjustable Panels



PROJECT: _____

DATE: _____

TYPE: _____

PREPARED BY: _____



KEY FEATURES

- **Field-adjustable Power and CCT**
T34FA-1X4 & T34-2X2 - 40/35/30/25/20W (30W default)
T34FA-2X4 - 50/45/40/35/30W (40W default)
- CCT: 3000/3500/4000/5000/6500K (4000K default)
- **Microwave occupancy sensor** optional
- **Battery backup** option available
- **CRI 80** for T34FA & **CRI 90** for T34FAHC models
- **5-year** limited warranty

PERFORMANCE

Model#	Wattage	Input Wattage	Color Temperature	Lumens	Efficacy	CRI	Voltage Ratings
T34FA-2X2HC	20W	20.0W	3000K	2,651	132.6	93	120-277V
		20.0W	3500K	2,681	134.1	95	
		20.0W	4000K	2,703	135.2	95	
		19.9W	5000K	2,713	136.3	96	
		19.9W	6500K	2,708	136.1	94	
	25W	24.8W	3000K	3,260	131.5	93	
		24.8W	3500K	3,297	132.9	95	
		24.8W	4000K	3,324	134.0	95	
		24.7W	5000K	3,336	135.1	96	
		24.7W	6500K	3,331	134.9	94	

T34 Field-Adjustable Panels



PERFORMANCE

Model#	Wattage	Input Wattage	Color Temperature	Lumens	Efficacy	CRI	
T34FA-2X2HC	30W	29.2W	3000K	3,743	128.2	93	120-277V
		29.2W	3500K	3,786	129.7	95	
		29.2W	4000K	3,816	130.7	95	
		29.1W	5000K	3,831	131.6	96	
		29.1W	6500K	3,824	131.4	94	
	35W	34.8W	3000K	4,306	123.7	93	
		34.8W	3500K	4,355	125.1	95	
		34.8W	4000K	4,390	126.1	95	
		34.7W	5000K	4,407	127.0	96	
		34.6W	6500K	4,399	127.1	94	
	40W	39.2W	3000K	4,733	120.7	93	
		39.2W	3500K	4,787	122.1	95	
		39.2W	4000K	4,825	123.1	95	
		39.1W	5000K	4,844	123.9	96	
		39.0W	6500K	4,836	124.0	94	
T34FA-1X4HC	20W	20.0W	3000K	2,711	135.6	93	120-277V
		20.0W	3500K	2,771	138.6	95	
		20.0W	4000K	2,825	141.3	95	
		20.1W	5000K	2,879	143.2	94	
		20.0W	6500K	2,917	145.9	93	
	25W	25.2W	3000K	3,349	132.9	93	
		25.2W	3500K	3,423	135.8	95	
		25.2W	4000K	3,489	138.5	95	
		25.3W	5000K	3,556	140.6	94	
		25.2W	6500K	3,604	143.0	93	
	30W	29.5W	3000K	3,848	130.4	93	
		29.5W	3500K	3,934	133.4	95	
		29.5W	4000K	4,009	135.9	95	
		29.6W	5000K	4,086	138.0	94	
		29.5W	6500K	4,141	140.4	93	
	35W	35.0W	3000K	4,440	126.9	93	
		35.0W	3500K	4,539	129.7	95	
		35.0W	4000K	4,626	132.2	95	
		35.1W	5000K	4,714	134.3	94	
		35.0W	6500K	4,778	136.5	93	

T34 Field-Adjustable Panels



PERFORMANCE

Model#	Wattage	Input Wattage	Color Temperature	Lumens	Efficacy	CRI	Voltage Ratings
T34FA-1X4HC	40W	39.4W	3000K	4,883	123.9	93	120-277V
		39.4W	3500K	4,992	126.7	95	
		39.4W	4000K	5,088	129.1	95	
		39.5W	5000K	5,185	131.3	94	
		39.4W	6500K	5,254	133.4	93	
T34FA-2X4HC	30W	29.0W	3000K	3,868	133.4	93	120-277V
		29.1W	3500K	3,870	133.0	94	
		29.1W	4000K	3,865	132.8	96	
		29.2W	5000K	3,849	131.8	95	
		29.2W	6500K	3,811	130.5	93	
	35W	33.2W	3000K	4,335	130.6	93	
		33.3W	3500K	4,337	130.2	94	
		33.3W	4000K	4,332	130.1	96	
		33.4W	5000K	4,314	129.2	95	
		33.4W	6500K	4,271	127.9	93	
	40W	37.4W	3000K	4,795	128.2	93	
		37.5W	3500K	4,797	127.9	94	
		37.6W	4000K	4,791	127.4	96	
		37.6W	5000K	4,771	126.9	95	
		37.6W	6500K	4,724	125.6	93	
	45W	43.2W	3000K	5,412	125.3	93	
		43.3W	3500K	5,414	125.0	9	
		43.4W	4000K	5,408	124.6	96	
		43.5W	5000K	5,385	123.8	95	
		43.5W	6500K	5,332	122.6	93	
	50W	47.1W	3000K	5,810	123.4	93	
		47.2W	3500K	5,812	123.1	94	
		47.3W	4000K	5,805	122.7	96	
		47.4W	5000K	5,781	122.0	95	
		47.4W	6500K	5,724	120.8	93	

T34 Field-Adjustable Panels



PERFORMANCE

Model#	Wattage	Input Wattage	Color Temperature	Lumens	Efficacy	CRI	Voltage Ratings
T34FA-2X2	20W	20.4W	3000K	2,704	132.5	83	120-277V
		20.5W	3500K	2,714	132.4	84	
		20.6W	4000K	2,726	132.3	86	
		20.6W	5000K	2,726	132.3	86	
		20.7W	6500K	2,705	130.7	84	
	25W	24.5W	3000K	3,200	130.6	82	
		24.6W	3500K	3,212	130.6	84	
		24.7W	4000K	3,226	130.6	86	
		24.7W	5000K	3,226	130.6	86	
		24.8W	6500K	3,202	129.1	84	
	30W	29.0W	3000K	3,724	128.4	82	
		29.1W	3500K	3,738	128.5	84	
		29.2W	4000K	3,754	128.6	86	
		29.3W	5000K	3,754	128.1	86	
		29.4W	6500K	3,726	126.7	84	
	35W	35.3W	3000K	4,358	123.5	82	
		35.4W	3500K	4,374	123.6	84	
		35.6W	4000K	4,394	123.4	86	
		35.7W	5000K	4,393	123.1	86	
		35.7W	6500K	4,360	122.1	84	
	40W	39.8W	3000K	4,799	120.6	82	
		39.9W	3500K	4,817	120.7	84	
		40.1W	4000K	4,838	120.6	86	
		40.2W	5000K	4,838	120.3	86	
		40.3W	6500K	4,802	119.2	84	

T34 Field-Adjustable Panels



PERFORMANCE

Model#	Wattage	Input Wattage	Color Temperature	Lumens	Efficacy	CRI	Voltage Ratings
T34FA-1X4	20W	20.1W	3000K	2,627	130.7	83	120-277V
		20.2W	3500K	2,659	131.6	84	
		20.3W	4000K	2,696	132.8	85	
		20.5W	5000K	2,726	133.0	85	
		20.6W	6500K	2,741	133.1	83	
	25W	24.1W	3000K	3,115	129.3	83	
		24.2W	3500K	3,153	130.3	84	
		24.3W	4000K	3,197	131.6	85	
		24.5W	5000K	3,233	132.0	85	
		24.7W	6500K	3,250	131.6	83	
	30W	28.6W	3000K	3,628	126.9	83	
		28.7W	3500K	3,672	127.9	84	
		28.9W	4000K	3,723	128.8	85	
		29.1W	5000K	3,765	129.4	85	
		29.3W	6500K	3,785	129.2	83	
	35W	35.1W	3000K	4,273	121.7	83	
		35.3W	3500K	4,325	122.5	84	
		35.5W	4000K	4,385	123.5	85	
		35.7W	5000K	4,435	124.2	85	
		35.9W	6500K	4,458	124.2	83	
	40W	39.2W	3000K	4,660	118.9	83	
		39.4W	3500K	4,717	119.7	84	
		39.6W	4000K	4,782	120.8	85	
		39.9W	5000K	4,836	121.2	85	
		40.1W	6500K	4,862	121.2	83	

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PERFORMANCE

Model#	Wattage	Input Wattage	Color Temperature	Lumens	Efficacy	CRI	Voltage Ratings
T34FA-2X4	30W	29.5W	3000K	4,006	135.8	83	120-277V
		29.6W	3500K	4,045	136.7	85	
		29.7W	4000K	4,092	137.8	85	
		29.9W	5000K	4,138	138.4	85	
		29.9W	6500K	4,165	139.3	83	
	35W	34.0W	3000K	4,502	132.4	83	
		34.1W	3500K	4,546	133.3	85	
		34.2W	4000K	4,599	134.5	85	
		34.4W	5000K	4,651	135.2	85	
		34.5W	6500K	4,681	135.7	83	
	40W	39.5W	3000K	5,101	129.1	83	
		39.6W	3500K	5,151	130.1	85	
		39.7W	4000K	5,210	131.2	85	
		40.0W	5000K	5,270	131.8	85	
		40.1W	6500K	5,303	132.2	83	
	45W	44.7W	3000K	5,638	126.1	83	
		44.8W	3500K	5,693	127.1	85	
		45.0W	4000K	5,759	128.0	85	
		45.3W	5000K	5,824	128.6	85	
		45.3W	6500K	5,862	129.4	83	
	50W	48.6W	3000K	6,028	124.0	83	
		48.7W	3500K	6,087	125.0	85	
		48.9W	4000K	6,157	125.9	85	
		49.2W	5000K	6,227	126.6	85	
		49.3W	6500K	6,267	127.1	83	

T34FA High Efficiency

T34FAHE-2X2	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTS	30W			23W			17W		
INPUT WATTS	30.1W	29W	30W	23.3W	22.6W	23.2W	18W	17.5W	17.9W
LUMENS	3,675	3,814	3,743	2,896	2,997	2,963	2,241	2,306	2,297
LM/W	122.1	131.5	124.8	124.3	132.6	127.7	124.5	131.8	128.3
CRI	83	83	81	83	83	81	83	83	81
INPUT VOLTAGE	120-277V			120-277V			120-277V		

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PERFORMANCE

T34FAHE-2X4	3500K	4000K	5000K	3500K	4000K	5000K	3500K	4000K	5000K
WATTS	50W			40W			30W		
INPUT WATTS	44W	42W	44W	35W	34W	36W	30W	29W	30W
LUMENS	5,970	6,092	5,970	4,900	4,977	4,824	3,810	3,922	3,907
LM/W	135.0	146.0	133.0	139.0	147.0	136.0	126.0	133.0	129.0
CRI	83	84	83	83	84	83	83	83	81
INPUT VOLTAGE	120-277V			120-277V			120-277V		

TECHNICAL SPECIFICATIONS

COMPLIANCE

UL Listed

Suitable for damp locations

DLC Listed

This product family is listed with the DesignLights Consortium (DLC). Individual SKUs within this family may carry either a DLC Standard or DLC Premium qualification. Please refer to the individual product specification sheet or the DLC Qualified Products List (QPL) at designlights.org to confirm the qualification status of a specific SKU prior to specification or purchase.

IESNA LM-79 & LM-80 Testing

RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80

CONSTRUCTION

Cold Weather Starting

The minimum starting temperature is -30°C (-22°F)

Maximum Ambient Temperature

Suitable for use in up to 40°C (104°F)

Mounting

Recessed into T-grid ceiling. Surface and recessed mounting kits available for drywall ceilings.

Housing

Aluminum frame & galvanized steel back housing

Lens

Frosted Polystyrene (PS)

Light Distribution

120°

Green Technology

Mercury and UV free. RoHS-compliant components.

Finish

Powder coated. Formulated for high durability and long-lasting color.

IC Rated

Suitable for direct contact with insulation

ELECTRICAL

Drivers:

T34FA & T34FA HC Models

Constant Current, Class 2, Class P, 120-277V, 50/60 Hz,
20W: 120V: 0.17A, 208V: 0.10A, 240V: 0.08A, 277V: 0.07A
25W: 120V: 0.21A, 208V: 0.12A, 240V: 0.10A, 277V: 0.09A
30W: 120V: 0.25A, 208V: 0.15A, 240V: 0.13A, 277V: 0.11A
35W: 120V: 0.29A, 208V: 0.17A, 240V: 0.15A, 277V: 0.13A
40W: 120V: 0.33A, 208V: 0.19A, 240V: 0.17A, 277V: 0.14A
45W: 120V: 0.38A, 208V: 0.22A, 240V: 0.19A, 277V: 0.16A
50W: 120V: 0.42A, 208V: 0.24A, 240V: 0.21A, 277V: 0.18A

THD (default)

T34FA

2X2: 7.9% at 120V, 5.6% at 277V

1X4: 8.1% at 120V, 5.7% at 277V

2X4: 7.53% at 120V, 6.1% at 277V

T34FA HC Models

2X2: 5.2% at 120V, 4.96% at 277V

1X4: 5.41% at 120V, 4.61% at 277V

2X4: 8.03% at 120V, 7.56% at 277V

Power Factor (default)

T34FA

2X2: 99.6% at 120V, 98.1% at 277V

1X4: 99.5% at 120V, 98.2% at 277V

2X4: 99.5% at 120V, 96.7% at 277V

T34FA HC Models

2X2: 99.7% at 120V, 96.7% at 277V

1X4: 99.8% at 120V, 96.6% at 277V

2X4: 99.4% at 120V, 94.6% at 277V

Dimming Driver:

Driver includes dimming control wiring for 0-10V dimming systems. Requires separate 0-10V DC dimming circuit.

Dims down to: 10%

Surge Protection

1KV+2KV

LED CHARACTERISTICS

LEDs

Long-life, high-efficacy, discrete, surface-mount LEDs

TECHNICAL SPECIFICATIONS

OCCUPANCY SENSORS

Sensor Type: Passive Infrared (PIR) or Microwave (MVS)

Input Voltage: 12VDC

Operating Frequency: 50/60Hz

Operating Temperature: -22°F to 104°F (-30°C to 40°C)

Max Mounting Height: 9 ft. to 12 ft.

Detection Range: 20 ft. diameter at 9 ft. mounting height

Daylight Sensing: The sensor will determine to trigger the light(s) on or not based on the daylight threshold level set. Closed loop daylight harvesting with continuous dimming available with Lightcloud Blue. Specify settings using the Lightcloud Blue mobile app.

Default Settings:

Motion Sensitivity: High

Brightness when triggered : 100%

Hold time: 20 minutes

Standby to dim: 20%

Standby time: 1 minute

When vacant: Off

Adjustable Settings: Settings for Lightcloud Blue-enabled sensors can be adjusted using the mobile app. All other sensors will require MSR1 Remote to adjust the following sensor settings:

Standby to dim: 10%/20%/30%/50%

Standby time: 0s/10s/30s/1min/5min/10min/30min/60min/+∞

Daylight Threshold: 2Lux/10Lux/30Lux/50Lux/80Lux/120Lux/Disable

OTHER

Warranty

The RAB 5-year, limited warranty covers light output, driver performance and paint finish. RAB's warranty is subject to all terms and conditions found at rablighting.com/warranty.

Lifespan

100,000-Hour LED lifespan based on IES LM-80 results and TM-21 calculations

WIRELESS NETWORK LIGHTING CONTROLS

Lightcloud products offer integrated network lighting control for a truly wireless solution that allows you to manage RAB's various compatible devices. With RAB's patented Rapid Provisioning technology, devices can be quickly and easily commissioned for residential and commercial applications. Each device can communicate with other devices in the mesh network. With two Lightcloud systems to choose from, it's easy to implement controls anywhere.

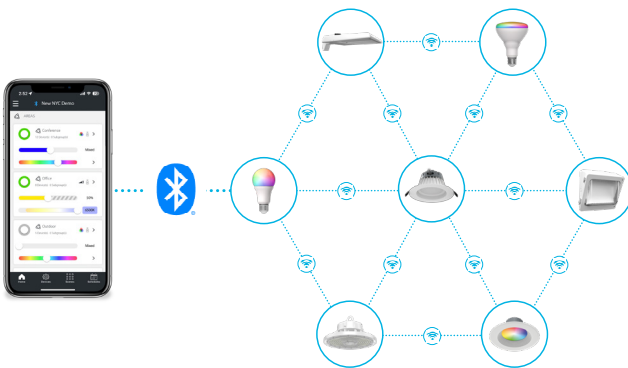


Learn more about Lightcloud wireless networked lighting controls.

Design Lights Consortium Network Lighting Controls:

- Interior Applications: N1XMLOEATB
- Exterior Applications: NHCZ2BIA17L

Lightcloud®



- Utilizes Bluetooth Mesh, eliminating the need for a Gateway or Hub
- Ideal for applications that need basic wireless control such as ON/OFF, dimming, color tuning, Schedules, and SmartShift
- Download the Lightcloud Blue mobile app for iOS or Android devices
- Add the XDIM/BRIDGE/LCB and LCGATEWAY to adopt premium Lightcloud Enterprise features

SIMPLE SETUP



Learn more about [Lightcloud Blue](#). Visit the [Lightcloud Blue Resources](#) page for more information on how to use the system.

Lightcloud®



- Utilizes a secure cellular and Zigbee mesh network that requires a Gateway or Hub (sold separately)
- Offers premium features like remote commissioning, demand response, BACnet integration, and more
- Download the Lightcloud Enterprise mobile app for iOS or Android devices

SIMPLE SETUP



Learn more about [Lightcloud Enterprise](#). Visit the [Lightcloud Enterprise Resources](#) page for more information on how to use the system.

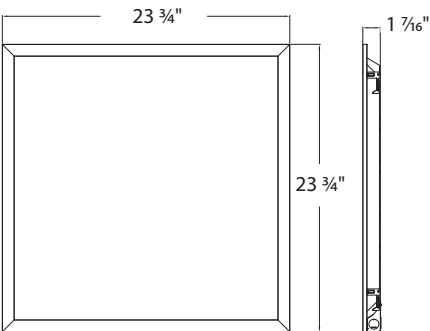
T34 Field-Adjustable Panels



DIMENSIONS

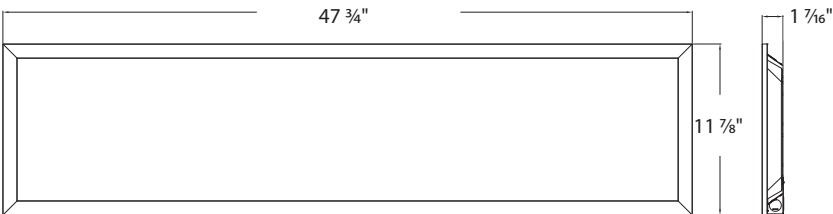
T34 FA 2X2 (40/35/30/25/20W)

Weight: 5.4 lbs



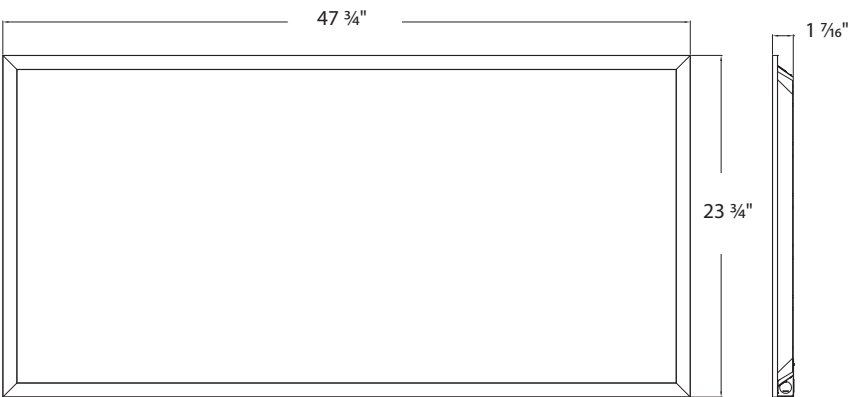
T34 FA 1X4 (40/35/30/25/20W)

Weight: 5.6 lbs



T34 FA 2X4 (50/45/40/35/30W)

Weight: 10.0 lbs



T34 Field-Adjustable Panels



ACCESSORY

Image	SKU#	UPC	Description
	MSR1	192552026055	MULTI-SENSOR REMOTE CONTROL IP20

ORDERING MATRIX

T34FA

Family	Size/Wattages		CRI/Color Temp		Finish		Driver		Controls		Battery Backup	
T34FA	-											
	2X2	2'X2' (40/35/30/25/20W)	Blank	80CRI, CCT Adjustable	Blank	White	Blank	120-277V,	Blank	None	Blank	None
	1X4	1'X4' (40/35/30/25/20W)	HC	90CRI, CCT Adjustable				0-10V Dimming	/MVS	Microwave Sensor	/E	Battery Backup
	2X4	2'X4' (50/45/40/35/30W)										

T34FA w/SmartShift

Family	Size/Wattages		Color Temp		Finish		Driver		Controls		Battery Backup	
T34FA	-											
	2X2	2'X2', 40W	Blank	Tunable White	Blank	White	Blank	120-277V	/LCB	Lightcloud Blue	Blank	None
	1X4	1'X4', 40W							/LCBS	Lightcloud Blue	/E	Battery Backup
	2X4	2'X4', 50W							/LCBS/MVS	PIR Sensor		
										Lightcloud Blue		
										MVS Sensor		

T34FA High Efficiency

Family	Size/Wattages		Color Temp		Finish		Driver		Controls		Battery Backup	
T34FAHE	-											
	2X2	2'X2', 30/23/17W	Blank	CCT Adjustable	Blank	White	Blank	120-277V, 0-10V Dimming	Blank /LC /LCB	None Lightcloud Lightcloud Blue	Blank /E	None Battery Backup
	2X4	2'X4', 30/23/17W										