

Think Automation and beyond...



**IDEC LUMIFA** LED Illumination for Industrial Automation

# LUMIFA

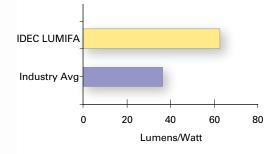


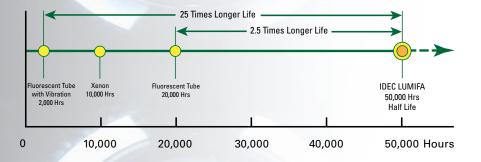
For over two decades, IDEC has been producing LEDs for applications requiring indicator lights and signaling towers. In 1999, IDEC received an award for Excellence in Energy Conservation Equipment for LED display development. Now, new LUMIFA LED light strips represent the future of brighter, longer-lasting and environmentally-friendly lighting sources. LUMIFA series offers:

- Bright: 65.3 Lumens/Watt (LUMIFA Series average)
- Long Lasting: 70% of Initial Luminance at 50,000 Hrs
- Efficient: 1/3 the energy of Fluorescent Tubes
- Compact: Width as narrow as 27.5mm
- Safe: RoHS Compliant, IP67f degree of protection (dust, water and oil tight)
- Variety of Colors: Cool White, Warm White, Red, and Yellow

## **Brightest in the Industry**

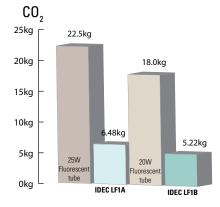
Our innovative Heat Dissipation Technology integrated with our core LED design enables IDEC LUMIFA light strips to emit only the highest quality light. The LUMIFA series is brightest in the industry, producing an average of 65.3 Lumens/Watt.





# **Heat Dissipation Technology**

In a LED, only 20% of the energy converts into light while 80% is lost in the form of heat. For that reason, proper heat management is critical. IDEC Heat Dissipation Technology (patent pending) uses dissipation pins to transfer heat generated in the LED chip to a heat dissipation plate. This minimizes the buildup of heat in the LED element and results in a longer-lasting LED.



# **Environmentally-friendly**

LUMIFA LEDs are made from non-toxic materials and produce 71% less CO<sub>2</sub> emissions compared with a 20W/25W fluorescent tube. LUMIFA are also ideal for green applications such as solar panels, which have a low power requirement and can't support the energy necessary for fluorescent bulbs.

# IDEC

# LUMIFA LF1A

# LF1A Series (IP40)

LF1A LED strips use super-bright multi-chip LEDs providing illumination equivalent to a 25W fluorescent lamp, while consuming only one-third the power. They come in a thin housing available in three sizes with four color configurations: cool white (5500K), warm white (2800K), yellow (590nm) and red (625nm).

- Brightness: 66.6 Lumens/Watt
- Energy saving: One-third of fluorescent lamps
- Long life: 40,000 Hrs (Half-life)
- UL Listed
- RoHS Compliant



Color	Cool White	Warm White	Yellow	Red
Part No.	LF1A-*-2THWW6	LF1A-*-2TLWW6	LF1A-*-2SHY8	LF1A-*-2SHR8
Appearance				
Spectrum				

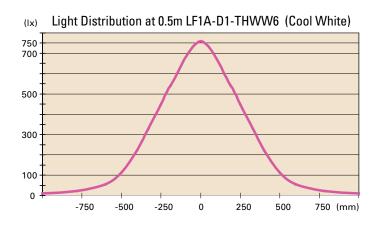
#### LF1A Series LED Optical Specifications

Part No.		LF1A-*-2THWW6	LF1A-*-2TLWW6	LF1A-*-2SHY8	LF1A-*-2SHR8
Illumination Color		Cool White	Warm White	Yellow	Red
Luminous Intensity (Single LED module)		6000mcd	4000mcd	4000mcd	2500mcd
Color Temperature / Dominant Waveleng		5500K	2800K	590nm	625nm
Reference	LED Array 3 x 2	190lx	130lx	130lx	85lx
Illuminance	LED Array 6 x 2	380lx	260lx	260Ix	170lx
at 0.5m	LED Array 12 x 2	760lx	520lx	520lx	340lx

#### LF1A Series General Specifications

Part No.		LF1A-*-2THWW6 LF1A-*-2TLWW6		LF1A-*-2SHY8	LF1A-*-2SHR8	
Rated Voltage			24V DC (non-polarized)			
	LED Array 3 x 2	75mA			90mA	
Input Current (at rated voltage)	LED Array 6 x 2 150mA			180mA		
(at fated voltage)	LED Array 12 x 2	30	300mA		360mA	
	LED Array 3 x 2	1.	1.8W		2.2W	
Rated Power (at rated voltage)	LED Array 6 x 2	3.6W			4.4W	
LED Array 12 x 2		7.2W			8.7W	

\*LED Array A1 = 3x2 , B1 = 6x2, D1 = 12x2

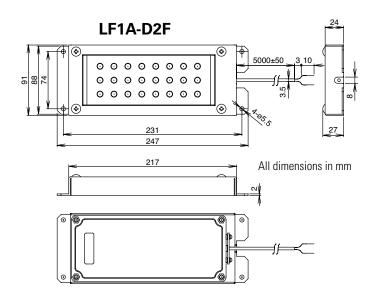


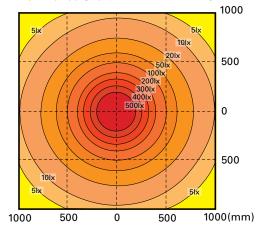
## LF1A-D2F Series (IP67f)



An internal waterproof gasket and transparent panel with thick reinforced glass make LF1A-D2F LED light strips perfect for use in a manufacturing line or outdoors where they might be immersed or sprayed with water or oil. These light strips are IP67f rated as water, dust and oil resistant.

Note: LF1A-D2F is not UL Listed





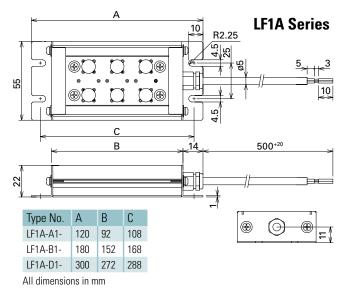
#### LF1A-D2F LED Optical Specifications

Illumination Color	Cool White
Chromaticity Coordinate Value	X: 033,Y: 0.33
Luminous Intensity	6000mcd
Color Temperature	5500K
Reference Illuminance at 500mm	600lx

#### LF1A-D2F General Specifications

Rated Voltage	24V DC (non-polarized)
Input Current	300mA (at rated voltage)
Rated Power	7.2W (at rated voltage)
Half Life	40,000 Hours





Illuminance Chart LF1A-D1-2THWW6

# LUMIFA LF1B

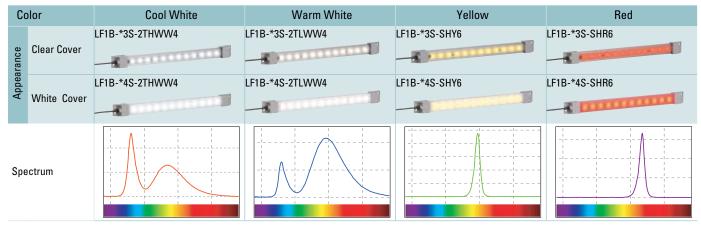
# LF1B Series (IP54)

LF1B miniature LED light strips are enclosed in a thin light strip, and are available in four sizes with a choice of two covers (clear or white).

- Brightness: 62.5 Lumens/Watt
- Space saving: Width 27.5mm; Thickness 16mm
- Four lengths to choose from
- Long life: 70% of initial luminance at 40,000 Hrs
- UL Listed
- RoHS Compliant







#### LF1B LED Optical Specifications

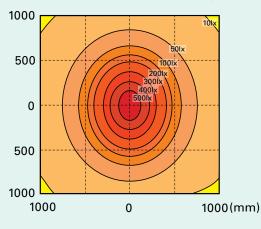
Color		Cool White	Warm White	Yellow	Red
Luminous Intensity (Single LED module)		5000mcd	4500mcd	2300mcd	1800mcd
Color Temperature /Dominant Wavelength		5500K	2800K	590nm	625nm
	LED Array 3 x 1	901x	60Ix	20lx	20lx
Reference Illuminance at	LED Array 6 x 1	170lx	110lx	40lx	40lx
0.5m (clear cover)	LED Array 12 x 1	330lx	2001x	75lx	75lx
	LED Array 24 x 1	560lx	350lx	125lx	125lx

\*LED Array A = 3 x 1 , B = 6 x 1, C = 12 x 1, D = 24 x 1

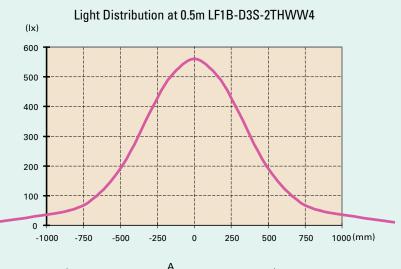
#### LF1B Series General Specifications

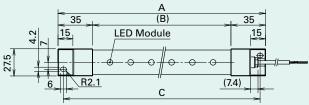
Part No.	LF1B-A (LED Array 3x1)	LF1B-B (LED Array 6x1)	LF1B-C (LED Array 12x1)	LF1B-D (LED Array 24x1)	
Rated Voltage	24V DC (non-polarized)				
Input Current (at the rated voltage)	30mA	60mA	120mA	240mA	
Rated Power (at the rated voltage)	0.8W	1.5W	2.9W	5.8W	
Vibration Resistance	Frequency: 5 to 55 Hz, Amplitude: 0.5mm				

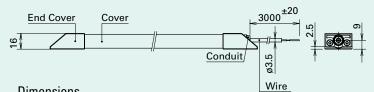
#### Illuminance Chart LF1B-D3S-2THWW4 (Cool White)











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Model	Α	В	C
LF1B-A	134	64	123
LF1B-B	210	140	199
LF1B-C	330	260	319
LF1B-D	580	510	569
A 11 12			

All dimensions in mm



# LUMIFA LF1D

# LF1D Series (IP67, IP67f)

LF1D LED units are the brightest in their class with the ability to target illumination with accuracy and making them ideal for machine tools. Offered as a wide or slim-type, these LED units provide high brilliance at the center and periphery.

• Brightness: Slim: 66.6 Lumens/Watt

Wide: 67.2 Lumens/Watt

- Life: 70% of initial luminance at 50,000 Hrs
- IP67 (Polycarbonate lens) or IP67f (Reinforced glass lens)
- UL Pending
- RoHS Compliant



#### LF1D LED Optical Specifications

Туре	Slim	Wide	
Illumination Color	Cool White		
Total Luminous Flux	600lm 840lm		
Color Temperature	5700K		
Reference Illuminance at 1.0m	1100lx		

LED modules and illumination units may vary in illumination colors and illuminance. Luminous flux, color temperature, and illuminance shown in the above are typical values.

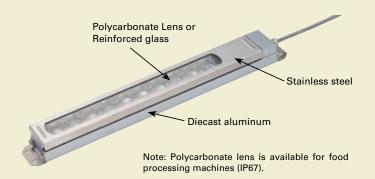
#### **LF1D General Specifications**

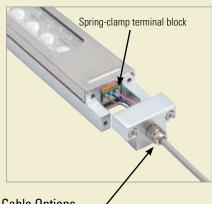
Туре	Slim	Wide		
Rated Voltage	24V DC			
Voltage Range	21.6 to 26.4V DC			
Rated Power (typ.)	9W	12.5W		
Dielectric Strength	1000V AC, 50/60Hz, 1 minute	9		
Vibration Resistance (damage limits)	Frequency 5 to 55Hz, amplitude 0.5mm			
Shock Resistance (damage limits)	1000m/s <sup>2</sup>			
Life (Note 1)	50,000 hours (The illumination duration in which the illuminance maintains a minimum of 70% of the initial value at $25^{\circ}$ C.)			
Material	Housing: Diecast aluminu Front cover: Stainless steel Lens: Reinforced glass	m s or polycarbonate (Note 2)		

Note 1: LED life depends on the operating environment.

Note 2: The reinforced glass and polycarbonate lenses have the same appearance, but have different degrees of protection (IP67f or IP67).





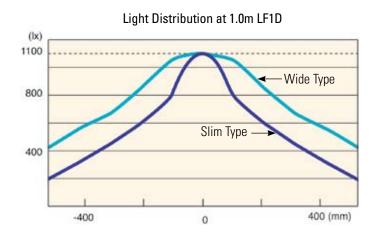


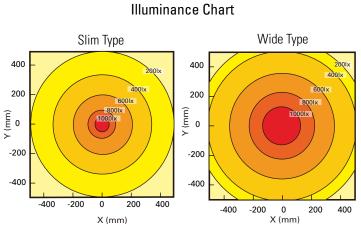
#### Two Cable Options

- 1. Side connection (as shown).
- 2. Back connection (cable connection at back of unit).

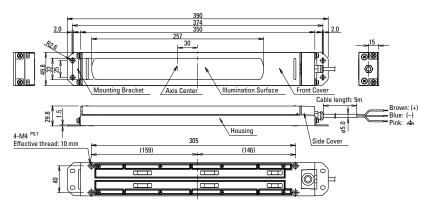
**Spring-Clamp Terminal Blocks** 

Removable direct plug-in terminal block and spring clamp connections ensure a high-quality connection, making it easy to install or replace the LED illumination unit.

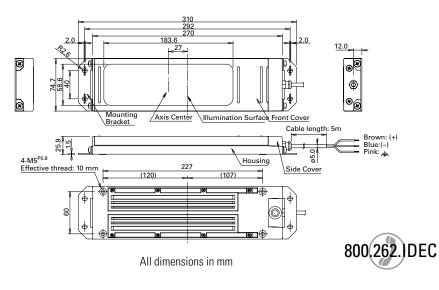




LF1D Slim Type







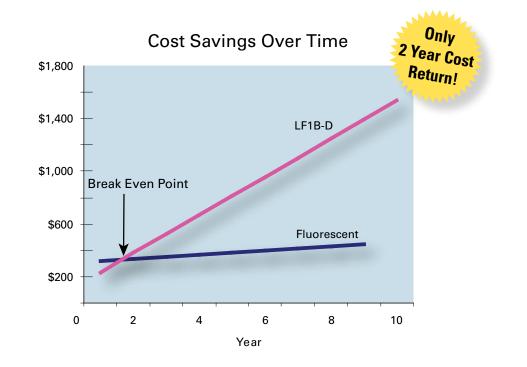




# **Cost Savings Over Time**

## **LUMIFA versus Fluorescent**

The following chart shows a comparison of cost savings year-by-year. As you can see, the break even point for LUMIFA light strips compared with fluorescent bulbs is approximately 2 years. That means in just two years time, you will be saving money by using a Lumifa light strip instead of a fluorescent bulb.



Note: This data assumes a single light source used 8 hours/day, 5 days/week, annually with electricity costs of \$0.10 per KWh (based on average California cost). Other variables, such as machine vibration, can cause the fluorescent tube to need to be changed twice a year. This adds the cost of an electrician's labor; time and cost to shutdown the machine; and cost of the replacement tube. However, as LUMIFA lasts for 40,000 Hrs (half-life) and is resistant to machine vibration; no replacement is needed.



## Applications:

- Machine Tool Manufacturing
- Control Panel Lighting
- Printing Machines
- Food Processing Equipment
- Semiconductor Manufacturing
- Commercial Laundry Equipment Manufacturing
- Food Display Lighting
- Retail Store Displays

# **Choose Your LUMIFA**





CubiFr HalmingEarls CubiELB Carvay (Column A Row)Fold valuationP40Clear120mm (3 x 2)(Fi A A) 2711WW6100mm (5 x 2)(Fi A A) 271WW6300mm (1 2 x 2)(Fi A A) 271WW6100mm (5 x 2)(Fi B A) 521WW4100mm (5 x 2)(Fi B A) 521WW4100mm (6 x 2)(Fi B A) 521WW4100mm (6 x 2)(Fi B A) 521WW4100mm (6 x 1)(Fi B A) 521WW4100mm (7 x 2)(Fi D A) 522WW4100mm (7 x 2)<					
Image: Problem in the section of the sectin of the section of the sectin	Color	IP Rating	Lens/Cover	Lumifa Unit Length LED Array (Column x Row)	Part Number
Image: state in the state				120mm (3 x 2)	LF1A-A1-2THWW6
<ul> <li></li></ul>		IP40	Clear	180mm (6 x 2)	LF1A-B1-2THWW6
Product of the section of the sectin of the section of the section of the section of the secti				300mm (12 x 2)	LF1A-D1-2THWW6
Image: Product of the section of the sectio				134mm (3 x 1)	LF1B-A3S-2THWW4
P64     300mr 12 x 1)     IFIB 405 2FHWW4       Col white (blor Tomp Range: 550K - 5700)     IFIB 445 2FHWW4     1618 445 2FHWW4       210mr [s x 1]     IFIB 445 2FHWW4       300mr [2 x 1]     IFIB 445 2FHW44       300mr [2 x 1]     IFIB 455 2FH			Olaan	210mm (6 x 1)	LF1B-B3S-2THWW4
Col white (Labr leng Bange: 5500K - 5700K)IP54IP54IP54IP54IP54Col white (Labr leng Bange: 5500K - 5700K)IP54IP54IP54IP54IP54IP57Polycarbonate IP571IP57IP57IP57IP57IP57IP571Pelferorad Gas IP571IP57IP57IP57IP57IP571Pelferorad Gas IP571IP57IP57IP57IP57IP571Pelferorad Gas IP571IP57IP57IP57IP57IP571Pelferorad Gas 	<b>新学会出版</b>		Clear	330mm (12 x 1)	LF1B-C3S-2THWW4
Col white (Color Temp Pange: 5500K - 5700K)     Heise Pange: 5500K - 5700K)     Heise Pange: 5500K - 5700K)       P67     Polycarbonate     300mn (12 x1)     LP16-04S 2THWW4       300mn (12 x1)     LP16-04S 2THWW4       P67     Polycarbonate     300mn (12 x1)     LP16-04S 2THWW4       P67     Polycarbonate     300mn (12 x1)     LP10-126 2W*       P671     Peinforced Class     300mn (12 x1)     LP10-127-2W*       P1001     So0mn (12 x1)     LP10-127-2W*     100mn (6 x2)     LP1A-127-2WW4       P1001     P1001     So0mn (12 x1)     LP10-127-2W*     100mn (5 x2)     LP1A-127-2WW4       P1001     P1001     So0mn (12 x1)     LP10-035-2WW4     300mn (12 x1)     LP10-035-2WW4       P1001     So0mn (12 x1)     LP10-035-2WW4     300mn (12 x1)     LP10-035-2WW4       P1001     So0mn (12 x1)     LP				580mm (24 x 1)	LF1B-D3S-2THWW4
Mile30mm (12 x 1)LFIB-C4S 2TH/WW4(Color Temp Range: 5500K - 5700K)P67Polycarbonate300mm (12 x 1)LFIB-C4S 2TH/WW4PF67Polycarbonate300mm (10 x 1)LFID-C4S CW*PF67Polycarbonate300mm (7 x 2)LFID-L76 CW*PF67Pelforead Glass300mm (7 x 2)LFID-L76 CW*300m (10 x 1)LFID-L27 CW*300mm (12 x 1)LFID-L27 CW*PF67Pelforead Glass300mm (12 x 2)LFIA-D1-2TH/W66300mm (12 x 1)LFIB-ASS 2TH/W44300mm (12 x 1)LFIB-ASS 2TH/W44200mm (12 x 1)LFIB-ASS 2TH/F6300mm (12 x 1)LFIB-ASS 2TH/F6200mm (12 x 1) </td <td></td> <td>IP54</td> <td></td> <td>134mm (3 x 1)</td> <td>LF1B-A4S-2THWW4</td>		IP54		134mm (3 x 1)	LF1B-A4S-2THWW4
Cool white (Colur lemp Hange: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)         Image: 550K - 570K)           Image: 550K - 570K - 570K - 570K - 570K - 570K - 570K)         Image: 550K - 570K - 570K - 570K)         Image: 550K - 570K - 570				210mm (6 x 1)	LF1B-B4S-2THWW4
(Color Temp Bange: 5500K - 5700K)Image: 1 mode	Cool white		vvnite	330mm (12 x 1)	LF1B-C4S-2THWW4
Index <t< td=""><td></td><td></td><td></td><td>580mm (24 x 1)</td><td>LF1B-D4S-2THWW4</td></t<>				580mm (24 x 1)	LF1B-D4S-2THWW4
Year <td></td> <td>1007</td> <td>Delasariaseta</td> <td>390mm (10 x 1)</td> <td>LF1D-E3G-2W*</td>		1007	Delasariaseta	390mm (10 x 1)	LF1D-E3G-2W*
IP671Beinforced Gass 247mn (B x 3)IF1A-D2F-2VW 147mn (B x 3)IF1A-D2F-2VW 147mn (B x 3)IF1A-D2F-2THWM6180mn (B x 2)IF1A-A1-2TUWM6 100mn (I2 x 2)IF1A-A1-2TUWM6 100mn (I2 x 3)IF1A-B3-2TUWM4190mn (B x 2)IF1A-A1-2TUWM6 100mn (I2 x 1)IF1B-A3S-2TUWM4 		IPb7	Polycarbonate	310mm (7 x 2)	LF1D-F3G-2W*
Year while (born remy 2000)     IFIA 22F2THWW6       IP64     I20mn (3 x 2)     IFIA A1-2THWW6       IB0mm (6 x 2)     IFIA A1-2THWW6       IB10m (6 x 2)     IFIA A1-2THWW6       IIII (1)     IFIB-23S-2THWW4       IIII (2)     IFIB-23S-2THW44       IIIIII (2)				390mm (10 x 1)	LF1D-E2F-2W*
Yellow (Dominant Wavelength: 590m)IP40IearI20m (3 x 2)IF1A-A1-2TLWW6IP60IB0m (6 x 2)IF1A-B1-2TLWW6IP64I30m (12 x 2)IF1A-B1-2TLWW6IP64I30m (12 x 2)IF1A-B1-2TLWW6IP64IGearI30m (12 x 1)IFIB-A3S-2TLWW4IP64IS00m (12 x 1)IFIB-A3S-2TLWW4IP64IS00m (12 x 1)IFIB-A3S-2TLWW4IS00m (12 x 1)IFIB-A3S-2TLWW4IS00m (24 x 1)IFIB-A3S-2TLWW4IS00m (24 x 1)IFIB-A4S-2TLWW4IS00m (24 x 1)IFIB-A3S-2TLWW4IS00m (24 x 1)IFIB-A3S-2TLW8IS00m (24 x 1)IFIB-A3S-2SHY6IS00m (24 x 1)IFIB-A3S-2SHY6IS00m (24 x 1)IFIB-A3S-2SHY6IS00m (24 x 1)IFIB-A3S-2SHY6IS00m (24 x 1)IFIB-A4S-2SHY6IS00m (24 x 1)IFIB-A4S-2SHY6IS00m (24 x 1)IFIB-A3S-2SHY6IS00m (24 x 1)IFIB-A3S-2SHR6IS00m (24 x 1)IFIB-A3S-2SHR6IS00m (24 x 1)IFIB-A3S-2SHR6IS00m (24 x 1)IFIB-A3S-2SHR6<		IP67f	Reinforced Glass	310mm (7 x 2)	LF1D-F2F-2W*
YeirIP40Clear180m (6 x2)LF1A-B1-ZTLWW6300m (12 x2)LF1A-D1-ZTLWW6300m (12 x2)LF1A-D1-ZTLWW6Arrow of the pass-STLWW4200m (6 x1)LF1B-S3S-ZTLWW4300m (12 x2)LF1A-H1-ZSHY8300m (12 x2)LF1A-S1-SSHY6300m (12 x2)LF1A-S1-SSHY6300m (12 x1)LF1B-S3S-ZSHY6300m (12 x1)LF1B-S3S-SSHY6300m (12 x2)LF1A-H1-ZSHR8300m (12 x2)LF1A-H1-ZSHR8300m (12 x2)LF1A-H1-ZSHR8300m (12 x2)LF1A-H1-ZSHR8300m (12 x2)LF1A-S1-SSHR6300m (12 x2)LF1A-S1-SSHR6300m (12 x1)LF1B-S3S-SSHR6300m (12 x1)LF1B-S3S-SSHR6300m (12 x1)LF1B-S3S-SSHR6300m (12 x1)LF1B-S3S-SSHR6 <t< td=""><td></td><td></td><td></td><td>247mm (8 x 3)</td><td>LF1A-D2F-2THWW6</td></t<>				247mm (8 x 3)	LF1A-D2F-2THWW6
YearinitialinitialinitialinitialinitialinitialWarm white (Color Temp. 2800K)PF4Image: Image: Im				120mm (3 x 2)	LF1A-A1-2TLWW6
Yearm white (Color Temp: 2800K)IP54ClearI34mm (3 x 1)IF18-A3S:2TLWW430mm (12 x 1)IF18-G3S:2TLWW430mm (12 x 1)IF18-G3S:2TLWW430mm (24 x 1)IF18-G3S:2TLWW430mm (12 x 1)IF18-A4S:2TLWW430mm (24 x 1)IF18-B4S:2TLWW430mm (12 x 1)IF18-D4S:2TLWW4400m (3 x 2)IF1A-A1:2SHY8800m (12 x 2)IF1A-A1:2SHY8Feld100m (6 x 2)IF1A-B1:2SHY6300m (12 x 2)IF1A-D1:2SHY81954IF2AIF2AIF1B-B3S:2SHY6300m (12 x 1)IF18-B4S:2SHY6100m (6 x 1)IF18-B4S:2SHY6300m (12 x 1)IF18-D4S:2SHY6100m (12 x 1)IF18-C4S:2SHY6300m (12 x 1)IF18-D4S:2SHY6100m (6 x 2)IF1A-B1:2SHR8300m (12 x 1)IF18-B4S:2SHR6100m (6 x 2)IF1A-B1:2SHR8300m (12 x 1)IF18-B3S:2SHR6100m (6 x 2)IF1A-B1:2SHR8300m (12 x 1)IF18-B3S:2SHR6100m (6 x 1)IF18-B3S:2SHR6300m (12 x 1)IF18-B3S:2SHR6100m (6 x 1)IF18-B3S:2SHR6300m (12 x 1)IF18-B3S:2SHR6100m (6 x 1)IF18-B3S:2SHR6300m (12 x 1)IF18-B3S:2SHR610		IP40	Clear	180mm (6 x 2)	LF1A-B1-2TLWW6
Warm white (Color Temp: 2800K)IP54Clear210mm (6 x 1)IP18-B3S-27LWW4195030mm (12 x 1)IP18-D3S-27LWW4580mm (24 x 1)IP18-D3S-27LWW41960m (24 x 1)IP18-D3S-27LWW4300m (12 x 1)IP18-D4S-27LWW4300m (12 x 1)IP18-D4S-27LWW4300mm (12 x 1)IP18-D4S-27LWW4300m (12 x 1)IP18-D4S-27LWW4580mm (24 x 1)IP18-D4S-27LWW4300m (12 x 2)IP1A-A1-2SHY8300mm (12 x 2)IP1A-A1-2SHY8300m (12 x 2)IP1A-B1-2SHY8300mm (12 x 2)IP1A-B1-2SHY8300m (12 x 1)IP18-D3S-2SHY6300mm (12 x 1)IP18-D3S-2SHY6300m (12 x 1)IP18-D3S-2SHY6300mm (12 x 1)IP18-D3S-2SHY6300m (12 x 1)IP18-D3S-2SHY6300mm (12 x 1)IP18-D4S-2SHY6300m (12 x 1)IP18-D4S-2SHY6300mm (12 x 1)IP18-D4S-2SHY6300m (12 x 1)IP18-D4S-2SHY6300mm (12 x 1)IP18-D4S-2SHY6300m (12 x 1)IP18-D4S-2SHY6300mm (12 x 2)IP1A-A1-2SHR8IP40Clear180mn (6 x 2)IP1A-B1-2SHR8IP54IP40Clear180mm (6 x 2)IP1A-B1-2SHR8IP40Clear180mm (6 x 2)IP1A-B1-2SHR8IP40Clear180mm (6 x 2)IP1A-B1-2SHR8300mm (12 x 1)IP18-D4S-2SHY6300mm (12 x 1)IP18-D4S-2SHY6IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40IP40 <td></td> <td></td> <td></td> <td>300mm (12 x 2)</td> <td>LF1A-D1-2TLWW6</td>				300mm (12 x 2)	LF1A-D1-2TLWW6
Yeiner         P64         300m (12 x 1)         F1B-C3S-2TLVW44           Warm white (Color Temp: 2800k)         P64         134mm (3 x 1)         F1B-C3S-2TLVW44           White         134mm (3 x 1)         F1B-D3S-2TLVW44           300mn (12 x 1)         F1B-B4S-2TLVW44           300mn (12 x 1)         F1B-B4S-2TLVW44           300mn (12 x 1)         F1B-D3S-2TLVW44           500mn (24 x 1)         F1B-D4S-2TLVW44           F1B-D12SHY8         134mm (3 x 1)         F1B-D4S-2SHY64           300mm (12 x 1)         F1B-D3S-2SHY64         130mm (6 x 1)         F1B-D3S-2SHY64           Yeilow         F1B-D4S-2SHY66         130mm (24 x 1)         F1B-D3S-2SHY64           1904         Clear         134mm (3 x 1)         F1B-D4S-2SHY64           190mm (24 x 1)         F1B-D4S-2SHY64         130mm (24 x 1)         F1B-D4S-2SHY64           190mm (24 x 1)         F1B-D4S-2SHY64         130mm (24 x 1)         F1B-D4S-2SHY64           190mm (24 x 1)         F1B-D4S-2SHY64         130mm (24 x 1)         F1B-D4S-2SHY64           1			Clear	134mm (3 x 1)	LF1B-A3S-2TLWW4
Warm white (Color Temp: 2800K)         IP54         300mm (12 x 1)         IP18-C3S 2TLWW4           White         134mm (3 x 1)         IF18-D3S 2TLWW4           White         1300mm (12 x 1)         IF18-ASS-2TLWW4           300mm (12 x 1)         IF18-ASS-2TLWW4           300mm (12 x 1)         IF18-ASS-2TLWW4           300mm (12 x 1)         IF18-ASS-2TLWW4           500mm (24 x 1)         IF18-ASS-2TLW44           500mm (24 x 1)         IF18-ASS-2SHY6           500mm (24 x 1)         IF18-ASS-2SHY6      <				210mm (6 x 1)	LF1B-B3S-2TLWW4
Warm white (Color Temp: 2800k)P54P44134mm (3 x 1)LF1B-A4S-2TLWW4210mm (6 x 1)LF1B-B4S-2TLWW4300mm (12 x 1)LF1B-C4S-2TLWW4580mm (24 x 1)LF1B-C4S-2TLWW4580mm (24 x 1)LF1B-D4S-2TLWW4580mm (24 x 1)LF1B-D4S-2TLWW4100mm (12 x 2)LF1A-1-2SHY8100mm (12 x 2)LF1A-D1-2SHY8110mm (6 x 1)LF1B-D3S-2SHY6110mm (6 x 1)LF1B-D4S-2SHY6110mm (6 x 1)LF1B-D4S-2SHY6110mm (6 x 1)LF1B-D4S-2SHY6110mm (6 x 2)LF1A-D1-2SHR8110mm (6 x 2)LF1B-D3S-2SHR6110mm (6 x 2) <t< td=""><td></td><td>330mm (12 x 1)</td><td>LF1B-C3S-2TLWW4</td></t<>				330mm (12 x 1)	LF1B-C3S-2TLWW4
Warm white (Color Temp: 2800k)P54P44134mm (3 x 1)LF1B-A4S-2TLWW4210mm (6 x 1)LF1B-B4S-2TLWW4300mm (12 x 1)LF1B-C4S-2TLWW4580mm (24 x 1)LF1B-C4S-2TLWW4580mm (24 x 1)LF1B-D4S-2TLWW4580mm (24 x 1)LF1B-D4S-2TLWW4100mm (12 x 2)LF1A-1-2SHY8100mm (12 x 2)LF1A-D1-2SHY8110mm (6 x 1)LF1B-D3S-2SHY6110mm (6 x 1)LF1B-D4S-2SHY6110mm (6 x 1)LF1B-D4S-2SHY6110mm (6 x 1)LF1B-D4S-2SHY6110mm (6 x 2)LF1A-D1-2SHR8110mm (6 x 2)LF1B-D3S-2SHR6110mm (6 x 2) <t< td=""><td></td><td></td><td></td><td>580mm (24 x 1)</td><td>LF1B-D3S-2TLWW4</td></t<>				580mm (24 x 1)	LF1B-D3S-2TLWW4
Yellow         210mm (6 x 1)         IF18-84S-2TLWW4           300m (12 x 1)         IF18-C4S-2TLWW4           580mm (24 x 1)         IF18-04S-2TLWW4           580mm (24 x 1)         IF18-04S-2TLWW4           600m (24 x 1)         IF18-04S-2TLWW4           180mm (6 x 2)         IF1A-1-2SH78           300m (12 x 2)         IF1A-12SH78           300m (12 x 2)         IF1A-D1-2SH78           300m (12 x 2)         IF1A-D1-2SH78           210mm (6 x 1)         IF18-83S-2SH76           300m (12 x 1)         IF18-83S-2SH76           300m (12 x 1)         IF18-83S-2SH76           300m (12 x 1)         IF18-84S-2SH76           300m (12 x 2)         IF1A-1-2SH78           300m (12 x 2)         IF1A-1-2SH78           IF18-44S-2SH76         300		IP54			LF1B-A4S-2TLWW4
Yellow         330mm (12 x 1)         IF18-C4S-2TLWW4           560mm (24 x 1)         IF18-D4S-2TLWW4           560mm (24 x 1)         IF18-D4S-2TLWW4           IP40         IE10         IE10           120mm (3 x 2)         IF1A-A1-2SHY8           130mm (12 x 1)         IF18-D4S-2TLWW4           IF1A-D1-2SHY8         IF1A-D1-2SHY8           IF1A-D1-2SHY8         IF1B-D4S-2SHY6           IF1B-D4S-2SHY6         IF1B-D4S-2SHY6           IF1B-D4S-2SHY6         IF1B-D4S-2SHY6           IF1A-D1-2SHR8         IF1B-D4S-2SHY6           IF1A-D1-2SHR8         IF1B-D4S-2SHR6           IF1A-D1-2SHR8         IF1A-D1-2SHR8           IF1A-D1-2SHR8         IF1A-D1-2SHR8           IF1A-D1-2SHR8         IF1A-D1-2SHR8           IF1A-D1-2SHR8         IF1A-D1-2SHR8           IF1A-D1-2SHR8         IF1A-D1-2SHR8           IF1A-D1-2SHR8         I	(Color Temp: 2800K)			210mm (6 x 1)	LF1B-B4S-2TLWW4
$ \frac{1}{1} P40 = 1 \\ P40 =$			White	330mm (12 x 1)	LF1B-C4S-2TLWW4
Yellow (Dominant Wavelength: 590nmIP40Clear80mm (6 x 2)IF1A-B1-2SHY8Auge of the second se				580mm (24 x 1)	LF1B-D4S-2TLWW4
Yellow (Dominant Wavelength: 590m)IaidIoom (12 x 2)EFIA-D1-2SHY8Fed (Dominant Wavelength: 625m)IaidIfB-A3S-2SHY6Ioom (2 x 1)EFIB-D3S-2SHY6Ioom (2 x 1)EFIB-D3S-2SHR6Ioom (1 2 x 2)EFIA-A1-2SHR8Ioom (1 2 x 2)EFIA-D1-2SHR8Ioom (1 2 x 2)EFIB-D3S-2SHR6Ioom (2 x 1)EFIB-D3S-2SHR6Ioom (2 x 1)EF				120mm (3 x 2)	LF1A-A1-2SHY8
Yellow         Image: Imag		IP40	Clear	180mm (6 x 2)	LF1A-B1-2SHY8
Yellow (Dominant Wavelength: 590nm)PF4Clear210mm (6 x 1)LF1B-G3S-2SHY6Yellow (Dominant Wavelength: 590nm)F16-445-2SHY6580mm (24 x 1)LF1B-D3S-2SHY6White134mm (3 x 1)LF1B-A4S-2SHY6210mm (6 x 1)LF1B-A4S-2SHY6300mm (12 x 1)LF1B-C4S-2SHY6300mm (12 x 1)LF1B-C4S-2SHY6300mm (24 x 1)LF1B-D4S-2SHY6580mm (24 x 1)LF1B-D4S-2SHY6180mm (6 x2)LF1A-A1-2SHR8180mm (6 x2)LF1A-A1-2SHR8300mm (12 x 2)LF1A-D1-2SHR8210mm (6 x1)LF1B-A3S-2SHR6300mm (12 x 1)LF1B-C3S-2SHR6300mm (12 x 1)LF1B-C3S-2SHR6190mm (6 x1)LF1B-C3S-2SHR6300mm (12 x 1)LF1B-C3S-2SHR6190mm (6 x1)LF1B-C3S-2SHR6100mm (6 x1)LF1B-C3S-2SHR6100mm (6 x1)LF1B-C3S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6300mm (12 x 1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6100mm (6 x1)LF1B-A4S-2SHR6300mm (12 x 1)LF1B-A4S-2SHR6300mm (12 x 1)LF1B-A4S-2SHR6 <td></td> <td></td> <td>300mm (12 x 2)</td> <td>LF1A-D1-2SHY8</td>				300mm (12 x 2)	LF1A-D1-2SHY8
$ \begin{array}{l} \mbox{Pellow} \\ (Dominant Wavelength: 590nm) \\ \mbox{Pellow} \\ (Dominant Wavelength: 590nm) \\ (Dominant Wavelength: 590nm) \\ \mbox{Pellow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ (Dominant Wavelength: 590nm) \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Perlow} \\ \mbox{Pellow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ \mbox{Perlow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Pellow} \\ \mbox{Perlow} \\ Perl$	and the pr			134mm (3 x 1)	LF1B-A3S-2SHY6
Yellow         IP54         IP54 <thip54< th="">         IP54         IP54         <t< td=""><td></td><td></td><td>210mm (6 x 1)</td><td>LF1B-B3S-2SHY6</td></t<></thip54<>				210mm (6 x 1)	LF1B-B3S-2SHY6
Yellow (Dominant Wavelength: 590nm)         IP54         I34mm (3 x 1)         LF1B-A4S-2SHY6           210mm (6 x 1)         LF1B-B4S-2SHY6         300mm (12 x 1)         LF1B-B4S-2SHY6           300mm (12 x 1)         LF1B-D4S-2SHY6         300mm (12 x 1)         LF1B-D4S-2SHY6           580mm (24 x 1)         LF1B-D4S-2SHY6         120mm (3 x 2)         LF1A-A1-2SHR8           IP40         Clear         180mm (6 x 2)         LF1A-A1-2SHR8           300mm (12 x 2)         LF1A-D1-2SHR8         100mm (12 x 2)         LF1A-D1-2SHR8           IP54         Lear         134mm (3 x 1)         LF1B-A3S-2SHR6           IP54         Lear         134mm (3 x 1)         LF1B-C3S-2SHR6           IP54         LP54         134mm (3 x 1)         LF1B-C3S-2SHR6           IP54         IP54         134mm (3 x 1)         LF1B-C3S-2SHR6           IP54         IP54         134mm (3 x 1)         LF1B-C3S-2SHR6           IP54         IP54         134mm (3 x 1)         LF1B-A4S-2SHR6           IP54         IP54         IP54         IP54         IP54			Clear	330mm (12 x 1)	LF1B-C3S-2SHY6
Yellow (Dominant Wavelength: 590nm)         Image: Figure Fig	· • • • • • • • • • • • • • • • • • • •	105.4		580mm (24 x 1)	LF1B-D3S-2SHY6
Red (Dominant Wavelength: 625nm)         IP40         Z10mm (6 x 1)         LF1B-B4S-2SHY6           300mm (12 x 1)         LF1B-C4S-2SHY6         150mm (24 x 1)         LF1B-D4S-2SHY6           120mm (3 x 2)         LF1A-A1-2SHR8         120mm (3 x 2)         LF1A-A1-2SHR8           180mm (6 x 2)         LF1A-B1-2SHR8         180mm (12 x 2)         LF1A-D1-2SHR8           300mm (12 x 2)         LF1A-D1-2SHR8         130mm (12 x 2)         LF1A-D1-2SHR8           120mm (6 x 1)         LF1B-B3S-2SHR6         100mm (6 x 1)         LF1B-B3S-2SHR6           130mm (12 x 1)         LF1B-D3S-2SHR6         130mm (12 x 1)         LF1B-D3S-2SHR6           1954         IP54         134mm (3 x 1)         LF1B-A4S-2SHR6           100mm (6 x 1)         LF1B-B4S-2SHR6         10mm (6 x 1)         LF1B-A4S-2SHR6           300mm (12 x 1)         LF1B-A4S-2SHR6         10mm (6 x 1)         LF1B-A4S-2SHR6		IP54		134mm (3 x 1)	LF1B-A4S-2SHY6
Red (Dominant Wavelength: 625nm)         IP40	(Dominant Wavelength: 590nm)			210mm (6 x 1)	LF1B-B4S-2SHY6
Red         IP40         IP40         I20mm (3 x 2)         IF1A-A1-2SHR8           180mm (6 x 2)         IF1A-B1-2SHR8         300mm (12 x 2)         IF1A-D1-2SHR8           300mm (12 x 2)         IF1A-D1-2SHR8         134mm (3 x 1)         IF1B-A3S-2SHR6           210mm (6 x 1)         IF1B-A3S-2SHR6         130mm (12 x 1)         IF1B-B3S-2SHR6           300mm (12 x 1)         IF1B-D3S-2SHR6         130mm (12 x 1)         IF1B-D3S-2SHR6           1954         IP54         134mm (3 x 1)         IF1B-A4S-2SHR6           134mm (3 x 1)         IF1B-A4S-2SHR6         134mm (3 x 1)         IF1B-A4S-2SHR6           134mm (3 x 1)         IF1B-A4S-2SHR6         134mm (3 x 1)         IF1B-A4S-2SHR6           300mm (12 x 1)         IF1B-B4S-2SHR6         130mm (12 x 1)         IF1B-B4S-2SHR6			White	330mm (12 x 1)	LF1B-C4S-2SHY6
IP40         Clear         180mm (6 x 2)         LF1A-B1-2SHR8           300mm (12 x 2)         LF1A-D1-2SHR8         LF1A-D1-2SHR8           300mm (12 x 2)         LF1A-D1-2SHR8         LF1A-D1-2SHR8           Fed         134mm (3 x 1)         LF1B-A3S-2SHR6           300mm (12 x 1)         LF1B-C3S-2SHR6         300mm (12 x 1)           Fed         1954         134mm (3 x 1)         LF1B-C3S-2SHR6           1964         1964         110mm (6 x 1)         LF1B-C3S-2SHR6           1974         1974         1980mm (3 x 1)         LF1B-C3S-2SHR6           1980         100mm (6 x 1)         LF1B-C4S-2SHR6         100mm (6 x 1)           1994         1994         110mm (6 x 1)         LF1B-C4S-2SHR6				580mm (24 x 1)	LF1B-D4S-2SHY6
Red (Dominant Wavelength: 625nm)         Idea         300mm (12 x 2)         LF1A-D1-2SHR8           134mm (3 x 1)         LF1B-A3S-2SHR6         120mm (6 x 1)         LF1B-A3S-2SHR6           300mm (12 x 1)         LF1B-C3S-2SHR6         130mm (12 x 1)         LF1B-C3S-2SHR6           1954         1954         134mm (3 x 1)         LF1B-C3S-2SHR6           1954         1954         134mm (3 x 1)         LF1B-C3S-2SHR6           1954         1954         134mm (3 x 1)         LF1B-C3S-2SHR6           100mm (6 x 1)         LF1B-A4S-2SHR6         100mm (6 x 1)         LF1B-A4S-2SHR6				120mm (3 x 2)	LF1A-A1-2SHR8
Red (Dominant Wavelength: 625nm)         IP54         134mm (3 x 1)         LF1B-A3S-2SHR6           210mm (6 x 1)         LF1B-B3S-2SHR6         330mm (12 x 1)         LF1B-CSS-2SHR6           300mm (12 x 1)         LF1B-D3S-2SHR6         580mm (24 x 1)         LF1B-D3S-2SHR6           134mm (3 x 1)         LF1B-D3S-2SHR6         580mm (24 x 1)         LF1B-D3S-2SHR6           134mm (3 x 1)         LF1B-D3S-2SHR6         210mm (6 x 1)         LF1B-A4S-2SHR6           300mm (12 x 1)         LF1B-B4S-2SHR6         210mm (6 x 1)         LF1B-B4S-2SHR6		IP40	Clear	180mm (6 x 2)	LF1A-B1-2SHR8
Red (Dominant Wavelength: 625nm)         IP54         Clear         210m (6 x 1)         LF1B-B3S-2SHR6           330mm (12 x 1)         LF1B-C3S-2SHR6         330mm (12 x 1)         LF1B-D3S-2SHR6           580mm (24 x 1)         LF1B-D3S-2SHR6         134mm (3 x 1)         LF1B-D3S-2SHR6           210mm (6 x 1)         LF1B-D3S-2SHR6         134mm (3 x 1)         LF1B-A4S-2SHR6           330mm (12 x 1)         LF1B-B4S-2SHR6         140mm (6 x 1)         LF1B-B4S-2SHR6				300mm (12 x 2)	LF1A-D1-2SHR8
Red (Dominant Wavelength: 625nm)         Clear         330mm (12 x 1)         LF1B-C3S-2SHR6           580mm (24 x 1)         LF1B-D3S-2SHR6         134mm (3 x 1)         LF1B-D3S-2SHR6           White         134mm (3 x 1)         LF1B-A4S-2SHR6         210mm (6 x 1)         LF1B-B4S-2SHR6           330mm (12 x 1)         LF1B-A4S-2SHR6         210mm (6 x 1)         LF1B-B4S-2SHR6	Control (1992) States			134mm (3 x 1)	LF1B-A3S-2SHR6
Red (Dominant Wavelength: 625nm)         IP54         Import in the second secon				210mm (6 x 1)	LF1B-B3S-2SHR6
Red (Dominant Wavelength: 625nm)         IP54         134mm (3 x 1)         LF1B-A4S-2SHR6           210mm (6 x 1)         LF1B-B4S-2SHR6         330mm (12 x 1)         LF1B-C4S-2SHR6			Clear	330mm (12 x 1)	LF1B-C3S-2SHR6
Hed (Dominant Wavelength: 625nm)         LF1B-A4S-2SHR6           210mm (6 x 1)         LF1B-B4S-2SHR6           330mm (12 x 1)         LF1B-C4S-2SHR6				580mm (24 x 1)	LF1B-D3S-2SHR6
White         210mm (6 x 1)         LF1B-B4S-2SHR6           330mm (12 x 1)         LF1B-C4S-2SHR6		1254		134mm (3 x 1)	LF1B-A4S-2SHR6
330mm (12 x 1) LF1B-C4S-2SHR6	(Dominant Wavelength: 625nm)		\A/hita	210mm (6 x 1)	LF1B-B4S-2SHR6
590mm /24 x 1) I E1D D4C 20UDC			vvnite	330mm (12 x 1)	LF1B-C4S-2SHR6
30011111 (24 X 1) LF1B-D43-23FIN0				580mm (24 x 1)	LF1B-D4S-2SHR6

\*To order LF1D installed with:

- Cable gland, mounting bracket and cable (side connection), add "-A" to the part number. Eg: LF1D-F2F-2W becomes LF1D-F2F-2W-A.
- Back cable connection option, add "-200" to the part number. Eg: LF1D-F2F-2W becomes LF1D-F2F-2W-200.
- Cable gland, mounting bracket and cable (back connection) add "-451" to the part number. Eg: LF1D-F2F-2W-451.

## Accessories

	Part No.	Compatible Unit	Material	Note	
	Mounting Bracket LF9Z-1MB1	LF1B-A, -B and -C (-D not applicable)		1 pair Left and Right	
	Mounting Bracket LF9Z-1MA1	LF1A-A, -B and -D			
A A	Mounting Bracket LF9Z-1MAD1	LF1A-D2F	Stainless Steel		
12 Parts	Mounting Bracket LF9Z-B12	LF1D (Wide Type)			
	Mounting Bracket LF9Z-B11	LF1D (Slim Type)			
0.50	Cable Gland LF9Z-A11	LF1D	Brass	M8, applicable wire size (10-12 AWG)	
	Cable LF9Z-C05	LF1D	PVC	Length: 5m	

#### **Support Information**

IDEC LED Illumination www.IDEC.com/usa/LED

Technical support: support@IDEC.com

800-262-IDEC www.IDEC.com/usa

**IDEC** Think Automation and beyond...

USA IDEC Corporation Tel: (408) 747-0550 opencontact@IDEC.com

Canada IDEC Canada Ltd. Tel: (905) 890-8561 sales@ca.IDEC.com

#### Australia

IDEC Australia Pty. Ltd. Tel: +61-3-9763-3244 sales@au.IDEC.com Japan IDEC Corporation Tel: +81-6-6398-2571 products@IDEC.co.jp

United Kingdom IDEC Electronics Ltd. Tel: +44-1256-321000 sales@uk.IDEC.com

#### www.IDEC.com

Germany IDEC Elektrotechnik GmbH Tel: +49-40-253054-0 service@IDEC.de

Hong Kong IDEC (H.K.) Co., Ltd. Tel: +852-2803-8989 info@hk.IDEC.com China/Beijing IDEC (Beijing) Corporation Tel: +86-10-6581-6131 idec@cn.IDEC.com

China/Shanghai IDEC (Shanghai) Corporation Tel: +86-21-5353-1000 idec@cn.IDEC.com China/Shenzhen IDEC (Shenzhen) Corporation Tel: +86-755-8356-2977

Singapore IDEC Asia Pte. Ltd. Tel: +65-6746-1155 info@sg.IDEC.com

Taiwan IDEC Taiwan Corporation Tel: +886-2-2698-3929 service@tw.IDEC.com

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mhtmlmain:

 Phone:
 817-595-8572 (77572)

 Fax:
 817-595-6470 (77470)

 Web:
 <u>http://www.alliedelec.com</u>

Please consider the environment before printing this email

From: Juanita Westover [mailto:juanita@idec.com]
Sent: Wednesday, July 28, 2010 3:13 PM
To: Kent Kern
Cc: Tomoko Okada Noya; Mike Suzuki; Vishal Kalia
Subject: Re: Allied catalog page 891 &1249

Hi Kent,

According to our Product Manager that accessory originally was thought not to work with the LF1B-D models, but when we tested it, it does work so we don't need the note (actually the † should also be removed from the table as well.

Thanks,

Juanita

Juanita Westover IDEC Corporation Marketing Communication Department Ph: 408-745-5257 Fax: 408-745-5258 www.idec.com

Think Automation and beyond ...

On Jul 28, 2010, at 12:39 PM, Kent Kern wrote:

mhtmlmain:

## Juanita,

Was wondering why you are removing that footnote? Because that was taken direct from you spec sheet.

Kent Kern Product Manager Allied Electronics

Kent Kern **Allied Electronics** Product Manager Ft. Worth, TX

 Phone:
 817-595-8572 (77572)

 Fax:
 817-595-6470 (77470)

 Web:
 <u>http://www.alliedelec.com</u>

Please consider the environment before printing this email

From: Juanita Westover [mailto:juanita@idec.com]
Sent: Wednesday, July 28, 2010 11:50 AM
To: Kent Kern
Cc: Tomoko Okada Noya; Mike Suzuki; Vishal Kalia
Subject: Re: Allied catalog page 891 &1249

Hi Kent,

mhtmlmain:

#### **PROOF 1 LED** Lights **LED Spider Lights** Mfr.'s Type Stock Lens Shape Lens Color EACH Nn LH1D-D2HQ4C10-A 814-1228 Amber 60.00 Dome LH1D-D2HQ4C10-A LH1D-D2HQ4C10-G LH1D-D2HQ4C10-RG LH1D-D2HQ4C10-PW 60.00 70.00 60.00 60.00 Dome Dome Green Alt: Red-Green Cool White Dome LH1D-D2HQ4C10-R LH1D-D2HQ4C10-S LH1D-D2HQ4C10-S LH1D-D2HQ4C10-W LH1D-D2HQ4C10-Y Dome Red Dome Blue Warm White 60.00 60.00 65.00 65.00 75.00 65.00 65.00 65.00 65.00

Yellow

Red Blue

Amber Green Alt: Red-Green

Cool White

Warm White Yellow

Dome

Flat

Flat Flat

Flat

Flat Flat

814-1229 814-1230 814-1231 814-1232 814-1233 814-1234 814-1235 814-1236 814-1237 814-1238 814-1239 814-1239 814-1240 LH1D-H2HQ4C10-A LH1D-H2HQ4C10-G LH1D-H2HQ4C10-G LH1D-H2HQ4C10-RG LH1D-H2HQ4C10-PW LH1D-H2HQ4C10-P LH1D-H2HQ4C10-R LH1D-H2HQ4C10-S LH1D-H2HQ4C10-W LH1D-H2HQ4C10-Y 814-1242 814-1243

## **LED Machine Lights**

LF1A Series (IP40)







LF1A-B1-2TLWW6

LF1A-D1-2THWW6



LF1A-B1-2SHY8

Brightness: 66.6 Lumens/Watt Long Life: 40,000 Hrs. (Half Life)

Energy Savings: 1/3 of Fluorescent Lamps UL Listed

Stock No.	Mfr.'s Type	Length (mm)	LED	Power Rating (W) @ 24 VDC	Color	EACH
814-1176 814-1177 814-1175 814-1174 814-1174 814-1180 814-1181 814-1178 814-1184 814-1185 814-1183	LF1A-A1-2THWW6 LF1A-A1-2TLWW6 LF1A-A1-2SHY8 LF1A-A1-2SHY8 LF1A-B1-2THWW6 LF1A-B1-2THWW6 LF1A-B1-2SHY8 LF1A-B1-2SHY8 LF1A-D1-2THWW6 LF1A-D1-2THWW6 LF1A-D1-2SHY8 LF1A-D1-2SHY8	120 120 120 180 180 180 180 180 300 300 300 300	$3 \times 2$ rows $3 \times 2$ rows $3 \times 2$ rows $3 \times 2$ rows $6 \times 2$ rows $6 \times 2$ rows $6 \times 2$ rows $12 \times 2$ row	1.8 1.8 2.2 2.2 3.6 4.4 4.4 7.2 7.2 7.2 8.7	Cool White Warm White Yellow Red Cool White Warm White Yellow Red Cool White Warm White Yellow Red	180.00 180.00 180.00 260.00 260.00 260.00 260.00 390.00 390.00 390.00

LF1A-D2F Series (IP67f)\*

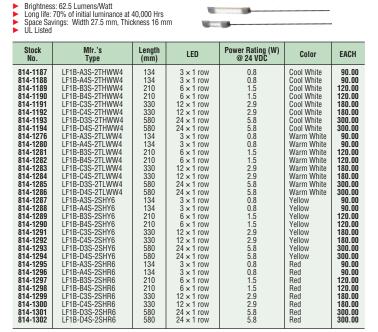


814-1186	LF1A-D2F-2THWW6	247	8 × 3 rows	7.2	Cool White	650.00	
* E1A-D2E is not III Listed							

#### Accessories (LF1A, LF1B and LF1D Series)

Stock No.	Mfr.'s Type	Description	EACH
814-1195	LF9Z-1MA1*	Mounting Bracket — LF1A Series	47.00
814-1196	LF9Z-1MAD1*	Mounting Bracket — LF1A-D2F Series	55.00
814-1197	LF9Z-1MB1*	Mounting Bracket — LF1B Series†	39.00
814-1319	LF9Z-B11*	Mounting Bracket — LF1D Series Side Type (10 × 1)	15.00
814-1320	LF9Z-B12*	Mounting Bracket — LF1D Series Wide Type (7 × 2)	15.00
814-1321	LF9Z-C05	Cable — LF1D Length 5 meters	30.00
814-1322	LF9Z-A11	Cable Gland M8 — LF1D Series	25.00

\*Comes as a pair (Left and Right). +Not applicable for LF1B-D.



#### LF1D Series (IP67)



Brightness — Slim: 66.6 Lumens/Watt, Wide: 67.2

LH1D-D2HQ4C10-A

Red/Green Two-Color Alternate Illumination Available

Direct Screw Mounting on Panel Surfaces, Aluminum Frames and Walls Slim Design Well Suited for Installation in Small Spaces 1 m Wiring Cable Standard. 3 m and 5 m Cables Available 24 VAC/VDC and IP67 (IEC60529) Rated Excellent Visibility from the Front and Side Legends and Symbols Can Be Printed on Marking Film for Flat Type Brad/Creon Fue Coles Alterate Illuministing Available



LF1D-F2F-2W

IP67 (Polycarbonate Lens) or IP67f (Reinforced Glass

Lumens/Watt     Life: 70% of Initial Luminance at 50,000 Hrs							
Stock No.	Mfr.'s Type	Length (mm)	LED	Power Rating (W) @ 24 VDC	Color	EACH	
814-1307 814-1308 814-1309 814-1310 814-1315 814-1316 814-1317 814-1318	LF1D-E3G-2W LF1D-E3G-2W-200 LF1D-E3G-2W-A LF1D-E3G-2W-451 LF1D-F3G-2W LF1D-F3G-2W-200 LF1D-F3G-2W-A LF1D-F3G-2W-A LF1D-F3G-2W-451	350 350 390 270 270 310 310	$10 \times 1 \text{ row}$ $10 \times 1 \text{ row}$ $10 \times 1 \text{ row}$ $10 \times 1 \text{ row}$ $7 \times 2 \text{ rows}$ $7 \times 2 \text{ rows}$ $7 \times 2 \text{ rows}$ $7 \times 2 \text{ rows}$ $7 \times 2 \text{ rows}$	9.0 9.0 9.0 12.5 12.5 12.5 12.5 12.5	Cool White Cool White Cool White Cool White Cool White Cool White Cool White Cool White	395.00 395.00 465.00 465.00 495.00 495.00 565.00 565.00	

#### LF1D Series (IP67f)

	· · /					
814-1303 814-1304 814-1305 814-1306 814-1311 814-1312 814-1313 814-1314	LF1D-E2F-2W LF1D-E2F-2W-200 LF1D-E2F-2W-A LF1D-E2F-2W-451 LF1D-F2F-2W-451 LF1D-F2F-2W-200 LF1D-F2F-2W-A LF1D-F2F-2W-A51	350 350 390 270 270 310 310	10 × 1 row 10 × 1 row 10 × 1 row 10 × 1 row 7 × 2 rows 7 × 2 rows 7 × 2 rows 7 × 2 rows 7 × 2 rows	9.0 9.0 9.0 12.5 12.5 12.5 12.5 12.5	Cool White Cool White Cool White Cool White Cool White Cool White Cool White Cool White	395.00 395.00 465.00 465.00 495.00 495.00 565.00 565.00





LH1D-H2HQ4C10-G

1535-2009





65.00 65.00

NEMA Type 4X

LF1B Series (IP54)

Brightness: 62.5 Lumens/Watt

