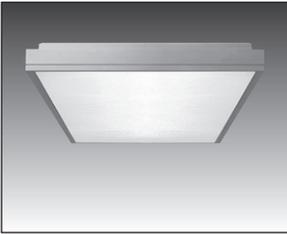


# LIGHT FIELDS™ LED

LED  
3000K, 3500K  
or 4000K

Suspended or  
Surface Mounted

2' x 2'



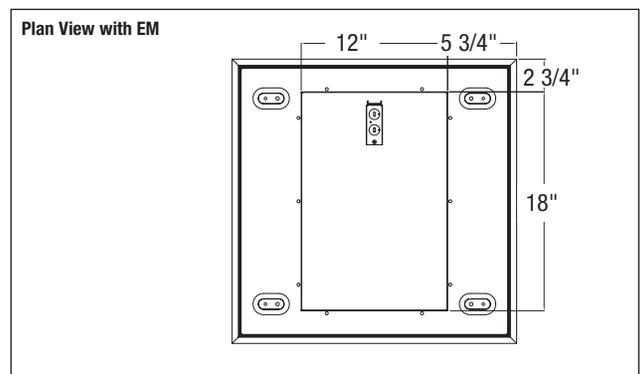
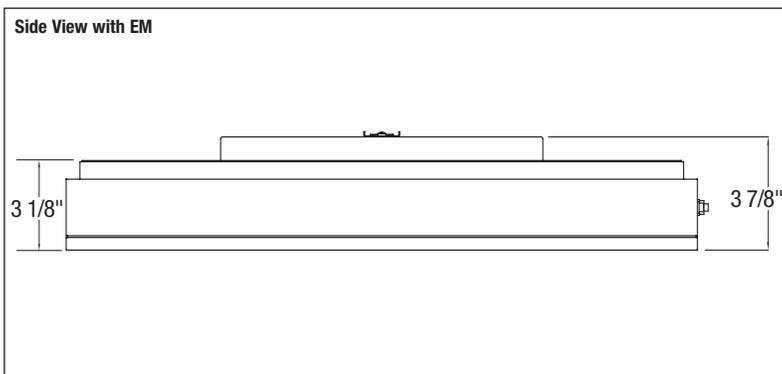
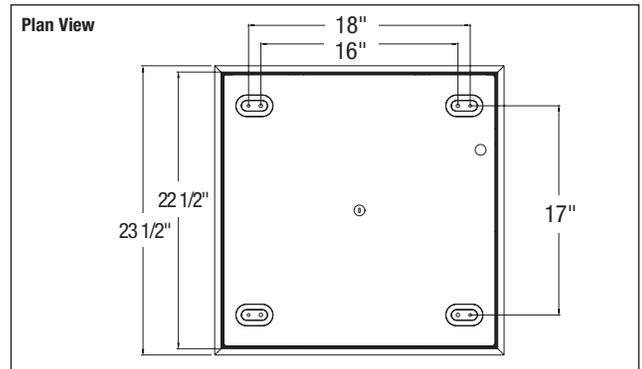
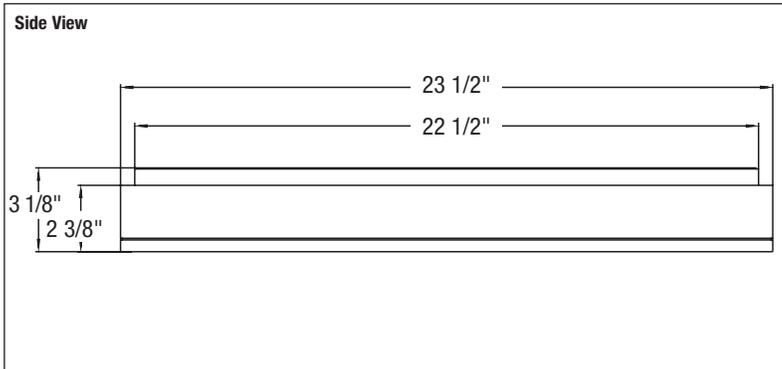
**Applications:** LIGHT FIELDS™ LED offers flexibility in innovative office lighting. The Micro-Pyramidal Optic (MPO) produces an unusually brilliant lighting quality without glare or reflections on computer screens. Use not just in offices but for healthcare, retail, conference rooms, corridors and reception areas.

online  
Find it Fast **1054**

Type: \_\_\_\_\_ Quantity: \_\_\_\_\_ Project: \_\_\_\_\_

**LED**

LFSLED	22	40W		MP					
FIXTURE/CEILING TYPE	LENGTH	WATTAGE	CCT (K)	OPTIC	DRIVER	MOUNTING	OPTIONS		
<b>LFSLED</b> LIGHT FIELDS™ LED Suspended or Surface Mount  White LED  <b>Typical Ra / R9 Values</b> 85CRI 10.7R9	22 2' x 2'	40W 40W 3800lm +/- 5%	K30 3000K K35 3500K K40* 4000K * 4000K requires longer lead time  3.5-step MacAdam, +126K/-50K @ 3000K, +75K/ 168K @ 3500K, +110K/-165K @ 4000K initial color binning	MP Micro-Pyramidal Diffuser	DU Standard 0-10V Universal Dimming Driver 120V/277V	SM Surface Mount SKW070* Suspension Kit 70" White SKG070* Suspension Kit 70" Gray SKW157* Suspension Kit 157" White SKG157* Suspension Kit 157" Gray	WF** Whip Flex 3/8" X 6' 14 AWG WN_* Whip Flex 3/8" X 6' 14 AWG (NYC) F Fusing EM_* Standby Battery Pack, 936 lm, 10W WS105_* WattStopper Super High Frequency Sensor FM-105		
		<b>CCT Multiplier for Lumen Output</b> 3000K 0.97 3500K 1.00 4000K 1.08					* Must select Power Feed and Non-Power Feeds from page 3. ** Specify "1" for 120V or "2" for 277V. ** Whip Flex only available with Surface Mount.		



COMPANION LUMINAIRE OPTIONS	FIF #	COMPANION LUMINAIRE OPTIONS	FIF #
1x1 LIGHT FIELDS™ LED – Recessed	1052	1x4 LIGHT FIELDS™ LED – Recessed	1050
2x2 LIGHT FIELDS™ LED – Recessed	1053	1x4 LIGHT FIELDS™ LED – Surface Mount / Suspended	1051

Zumtobel Lighting, Inc. ©2014  
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800-448-4131  
zli.us@zumtobel.com

[www.zumtobel.us](http://www.zumtobel.us)

In a continuing effort to offer the best product possible we reserve the right to change, without notice, specifications or materials. Technical specification sheets that appear on [www.zumtobel.us](http://www.zumtobel.us) are the most recent version and supersede all other versions that exist in any other printed or electronic form.



D00581TS 09/08/14



IC-Rated

IBEW Union Made

Suitable for damp locations  
NYC Approved



Registration, Evaluation and Authorization of Chemicals



**1. Housing** – Made from aluminum extrusions, painted Zumtobel Silver.

**2. Wattage and CCT** – 40W. Available in 3000K, 3500K or 4000K color temperatures. Initial color binning for LEDs is +126K/-50K @ 3000K, +75K/-168K @ 3500K, +110K/-165K @ 4000K, and potential color shift over the life of the LEDs is +/- 50K @ 50,000 hrs.

**3. Optics** – MPO Micro-Pyramidal optic with seamless look and defined light emission for glare-free light distribution. Frame is extruded aluminum, painted Zumtobel Silver.

**4. Driver** – Universal voltage 120/277V with integral 0-10V dimming. For non-dimming requirements, order DU driver but do not connect to dimming control during installation.

**5. Mounting – Suspended** – Supported by adjustable aircraft cables. **Surface Mount** - Top plate attaches to ceiling, fixture snaps onto top plate for sleek installed look.

LIGHT FIELDS™ LED surface can also be mounted to a sheetrock wall if the wall has appropriate spacing available. EM fixtures will need a hole cut out for the EM pack. Follow surface mount installation instructions.

**6. Occupancy Sensor** – Option of WattStopper FM-105 occupancy sensor located behind lens. It detects motion via super high frequency (SHF) electromagnetic waves and the Doppler principle. Range sensitivity is up to 20'. Due to the nature of the LIGHT FIELDS™ LED optic and lens, the sensor shadow is visible through the lens.

Compatible with the following remote sensors:

- Philips ActiLume LR11655/00 Daylight and Occupancy Sensor
- Philips ActiLume Classic LRM2320
- Hubbell DLC-7 Daylight Sensor

**7. Life** – 60,000 hours rated life. L70.

**8. Standby Battery Pack** – Remote standby battery pack with test switch located on side of housing. 90 minute run time, provides 950 lm with 10W.

**9. PureBinning™** – Beyond the finer quarter-binning we have already applied to most of our standard LED product lines, we define an even finer color binning (~ 2-step MacAdam) in our LIGHTFIELDS™ LED product by using the PureBin™ technique from Zumtobel US. We use the LEDs with color coordinates located in diagonal directions within a quarter-bin and mix them on the board level with our own formula. The result is a fine-tuned, tighter overall color output from the luminaire that is much closer to exactly the specified color temperature such as 3500K, 3000K, or 4000K. This technique has been proven to work for all different luminaire sizes such as 2x2, 1x4, and 1x1. Both the color uniformity within a single fixture and the color consistency from fixture to fixture are dramatically increased to a level that the output white light is visually non-discernable from the light coming from a single bin located at the center of a particular color temperature white light.

**10. Weight** – 26 lbs. with EM 29 lbs.

**NOTE: For non-dimming installations, simply cap off the two control wires and connect the hot/neutral and ground as normal.**

LED lighting facts®																			
A Program of the U.S. DOE																			
Light Output (Lumens)	3726																		
Watts	40.38																		
Lumens per Watt (Efficacy)	92																		
Color Accuracy Color Rendering Index (CRI)	85																		
Light Color Correlated Color Temperature (CCT)	3488 (Bright White)																		
<table border="1"> <tr> <td>Warm White</td> <td>Bright White</td> <td>Daylight</td> </tr> <tr> <td>2700K</td> <td>3000K</td> <td>4500K</td> </tr> <tr> <td colspan="3">LED Lumen Maintenance Projection at 10,000 Hours at 25°C Ambient*</td> </tr> <tr> <td colspan="3">98.66%</td> </tr> <tr> <td colspan="3">Warranty**</td> </tr> <tr> <td colspan="3">Yes</td> </tr> </table>		Warm White	Bright White	Daylight	2700K	3000K	4500K	LED Lumen Maintenance Projection at 10,000 Hours at 25°C Ambient*			98.66%			Warranty**			Yes		
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98.66%																			
Warranty**																			
Yes																			
<small>All results, except LED Lumen Maintenance, are according to IESNA LM-79-2008 Approved Method for the Electrical and Photometric Testing of Solid State Lighting. The U.S. Department of Energy (DOE) verifies product test data and results.</small>																			
<small>* Based on TM-21 projections for the light source.</small>																			
<small>** See www.lightingfacts.com/products for details.</small>																			
<small>Registration Number: EMBN-WNGA10 (8/19/2013) Model Number: LFLED220HW3000PU Type: Surface-mounted or recessed surface</small>																			



EM test switch location

# Suspension Information

## 1. Select Power Feed Suspensions

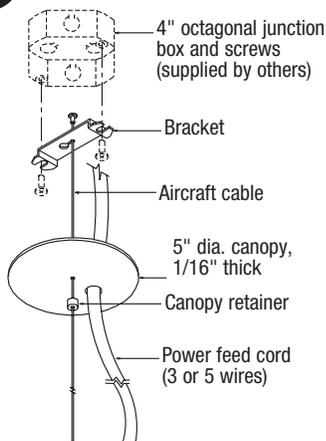
FIXTURE	SUSPENSION TYPE/LENGTH	CANOPY
LFSLED LIGHT FIELDS LED	<b>CBL070</b> Aircraft Cable 70"	<b>J5FW</b> J-box mounting, 5" round, flat canopy, white
	<b>CBL157</b> Aircraft Cable 157"	

## 2. Select NON-Power Feed Suspensions

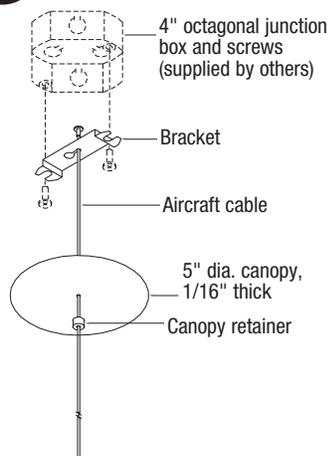
FIXTURE	SUSPENSION TYPE/LENGTH	CANOPY
LFSLED LIGHT FIELDS LED	<b>CBL070</b> Aircraft Cable 70"	<b>J5W</b> J-box mounting, 5" round, flat canopy, white
	<b>CBL157</b> Aircraft Cable 157"	
	<b>S2W</b> 1/4-20, 2" flat canopy, white	<b>S5W</b> 1/4-20, 5" flat canopy, white
	<b>S5W</b> 1/4-20, 5" flat canopy, white	

## Standard mounting attachments

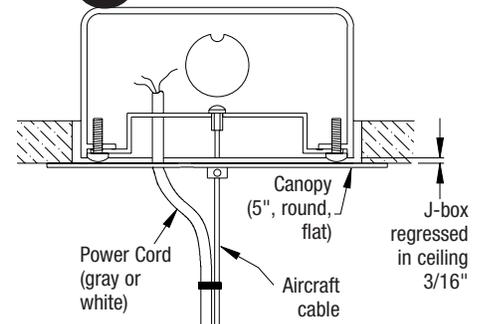
### J5 J-box Mounted with Power Feed



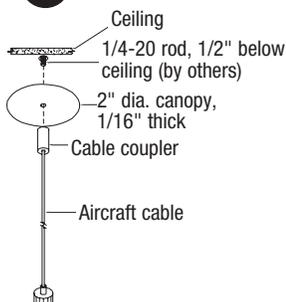
### J5 J-box Mounted Non-Power Feed



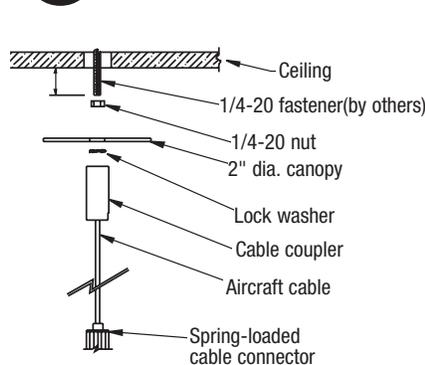
### J5 (Feed) Canopy Detail



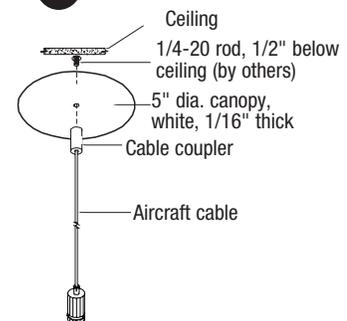
### S2 1/4-20 Fastener



### S2 1/4-20 Fastener Detail



### S5 1/4-20 Fastener



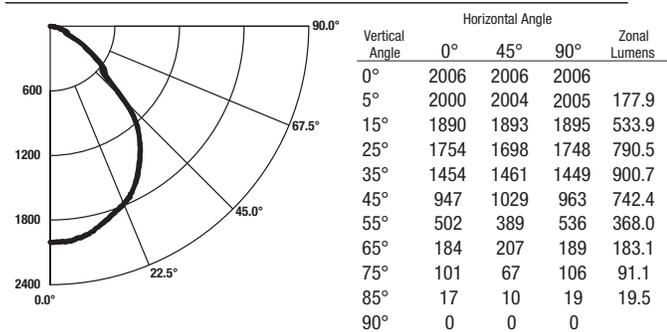
## LIGHT FIELDS™ LED, 2x2, 40W, 4000K

Efficacy = 93lm/W

### Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45°	4051	4404	4120
55°	2647	2050	2826
65°	1318	1481	1350
75°	1186	785	1234
85°	573	354	656

### Candela Distribution



### Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30			
	70	50	30	10	70	50	30	10	50	30	10	50	30	10		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93		
2	103	97	91	86	101	95	90	85	91	87	84	88	85	82		
3	96	87	80	75	93	86	79	74	83	77	73	80	76	72		
4	89	79	71	66	87	78	71	65	75	69	64	73	68	64		
5	83	72	64	58	81	71	63	58	69	62	57	67	61	57		
6	77	65	58	52	75	64	57	52	63	56	51	61	55	51		
7	72	60	52	47	70	59	52	47	58	51	46	56	50	46		
8	67	55	48	42	66	55	47	42	53	47	42	52	46	42		
9	63	51	44	39	62	50	43	39	49	43	38	48	42	38		
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35		