

# LIGHT FIELDS™ LED

LED  
3000K, 3500K or 4000K

Recessed **1' x 4'**



**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

1050

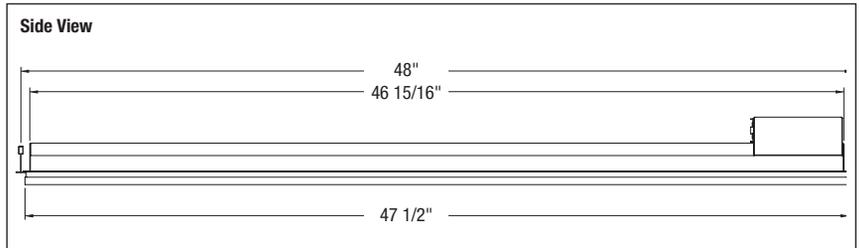
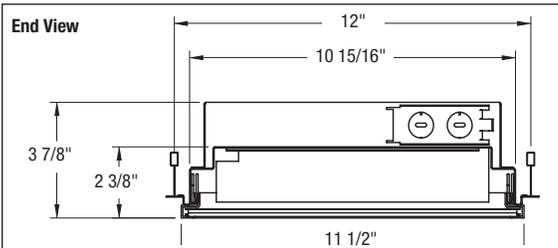
LED

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

LF LED	14	40W		MP			
FIXTURE/CEILING TYPE	LENGTH	WATTAGE	CCT (K)	OPTIC	DRIVER	OPTIONS	
<b>LFULED</b> LIGHT FIELDS™ LED 15/16" Lay-In, Flush 9/16" Slot-Grid, Flush 9/16" Lay-In, Tegular  <b>LFLED</b> LIGHT FIELDS™ LED 9/16" Lay-In, Flush  White LED  <b>Typical Ra / R9 Values</b> 85CRI 10.7R9	14' x 4'	40W 40W 3800lm +/- 5%  <div style="border: 1px solid black; padding: 2px;"> <b>CCT Multiplier for Lumen Output</b>                      3000K 0.97                      3500K 1.00                      4000K 1.08                 </div>	<b>K30</b> 3000K <b>K35</b> 3500K <b>K40*</b> 4000K  * 4000K requires longer lead time  3.5-step MacAdam, +126K/-50K @ 3000K, +75K/-168K @ 3500K, +110K/-165 @ 4000K initial color binning	<b>MP</b> Micro-Pyramidal Diffuser	<b>DU</b> Standard 0-10V Universal Dimming Driver 120V/277V	<b>WF</b> Whip Flex 3/8" X 6' 14 AWG <b>WN_*</b> Whip Flex 3/8" X 6' 14 AWG (NYC) <b>EM_*</b> Standby Battery Pack, 936 lm, 10W <b>CP</b> Chicago Plenum <b>F</b> Fusing <b>PF</b> Concealed Ceiling Plaster Frame Kit, Flangeless Appearance (can only be ordered with LFU fixture)  <b>WS105_*</b> WattStopper Super High Frequency Sensor FM-105  * Specify "1" for 120V or "2" for 277V.	

To order Plaster Frame Kit for sheetrock ceilings, select "PF" in the fixture options, along with the following:

**LF14PF1** Concealed Ceiling Plaster Frame Kit, Flangeless Appearance, 1 Luminaire



Suitable for damp locations NYC Approved



Registration, Evaluation and Authorization of Chemicals



- Housing** – 20 gauge cold-rolled steel housing. Finish is powder-coated white. Post painted.
- 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.
- Optics** – MPO Micro-Pyramidal optic with seamless look and defined light emission for glare-free light distribution. Frame is anodized aluminum, painted Zumtobel Silver.
- 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.
- Mounting** – Lay-in mounting for typical grid ceilings (LFULED and LFLED). Above ceiling access is required. Use PF (Plaster Frame kit) with LFULED fixture for sheetrock ceiling installation.  
  
LIGHT FIELDS™ LED recessed can also be mounted into a sheetrock wall using the PF kit if the wall has appropriate spacing available, and blocking will have to be built out. Wall mount not recommended with EM fixtures. Follow PF kit installation instructions.
- 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** – Integral standby battery pack with integral test switch. 90 minute run time, provides 936 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** – 18 lbs. with EM 21 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 Report of the U.S. DOE

Light Output (Lumens)	3585
Watts	41.48
Lumens per Watt (Efficacy)	86
Color Accuracy Color Rendering Index (CRI)	85
Light Color Correlated Color Temperature (CCT)	3476 (Bright White)
LED Lumen Maintenance Projection at 10,000 Hours at 25°C Ambient*	98.66%
Warranty**	Yes

All results, except LED Lumen Maintenance, are according to IESNA LM-79-2010: 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.  
\* Based on TM-21 projections for the light source.  
\*\* See www.lightingfacts.com/products for details.

Zumtobel Lighting, Inc. ©2014  
3300 Route 9W  
Highland, NY 12528-2630

845-691-6262  
800-448-4131  
zli.us@zumtobel.com

D00577TS 09/08/14

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 are the most recent version and supersede all other versions that exist in any other printed or electronic form.



**COMPANION LUMINAIRE OPTIONS**

1x1 LIGHT FIELDS™ LED – Recessed  
 2x2 LIGHT FIELDS™ LED – Recessed

**FIF #**

1052  
 1053

**COMPANION LUMINAIRE OPTIONS**

1x4 LIGHT FIELDS™ LED – Surface Mount / Suspended  
 2x2 LIGHT FIELDS™ LED – Surface Mount / Suspended

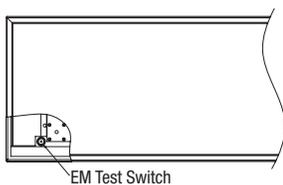
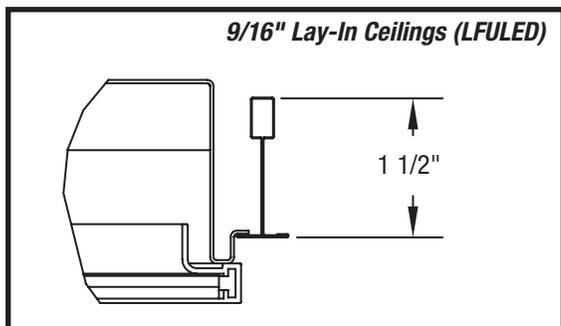
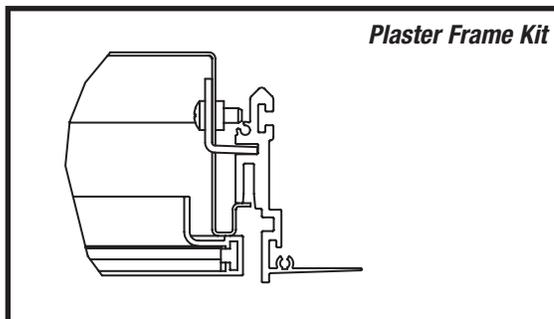
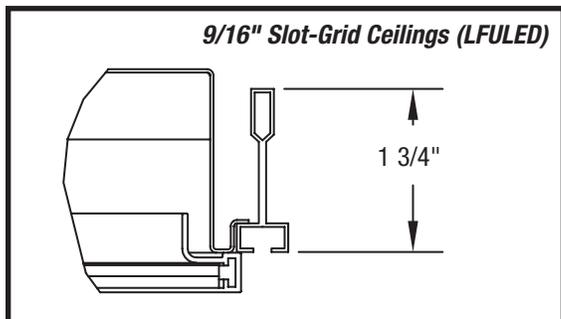
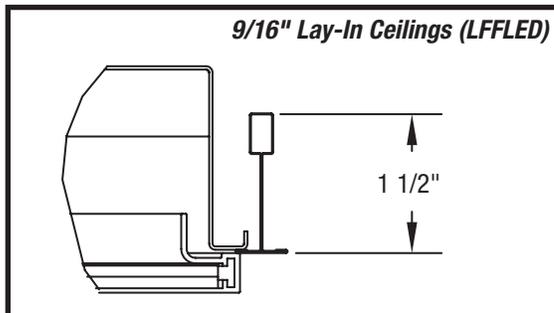
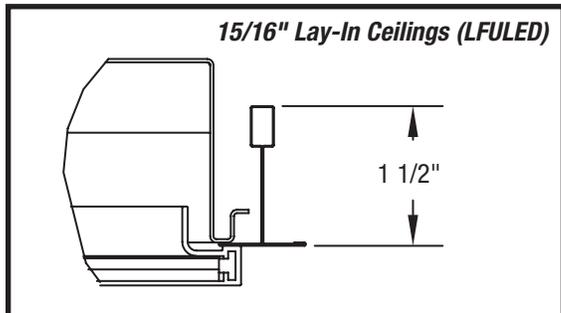
**FIF #**

1051  
 1054

# Mounting

## Mounting with common ceiling types

Ceiling (Grid or Block) cannot exceed heights shown in the drawings below.



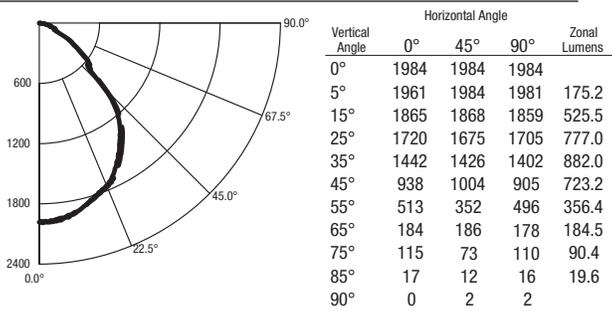
## LIGHT FIELDS™ LED, 1x4, 40W, 4000K

Efficacy = 92lm/W

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

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45°	4148	4439	4000
55°	2795	1921	2705
65°	1363	1376	1316
75°	1394	882	1328
85°	610	413	578

### 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			
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