

LIGHT FIELDS™ LED

LED
3000K, 3500K or 4000K

Recessed

1' x 1'



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

1052

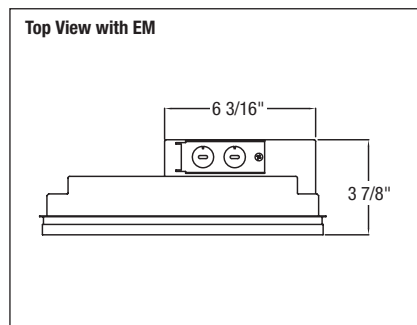
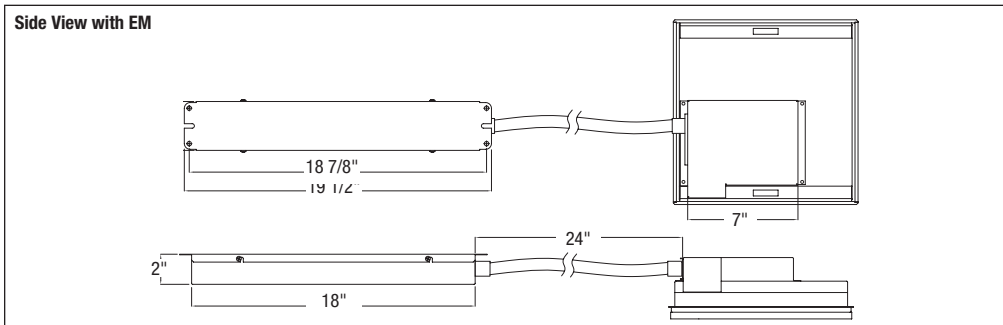
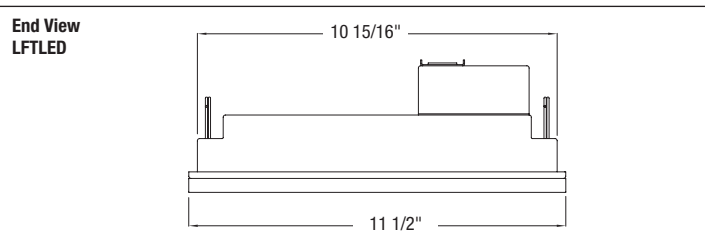
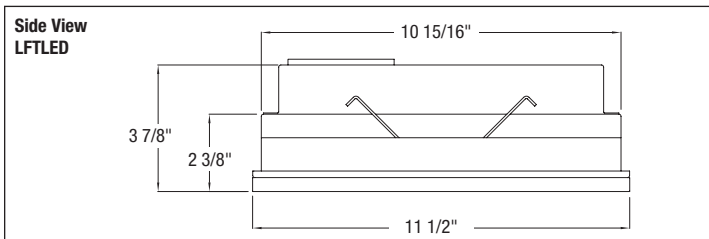
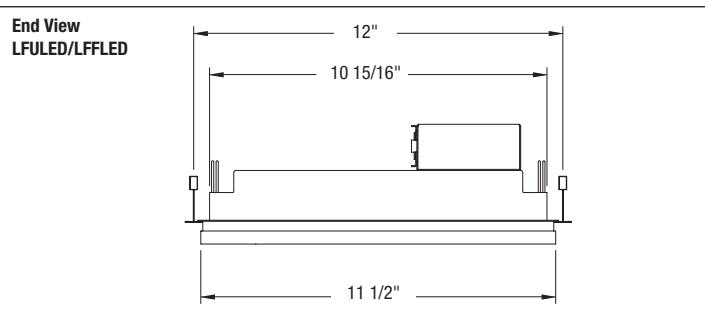
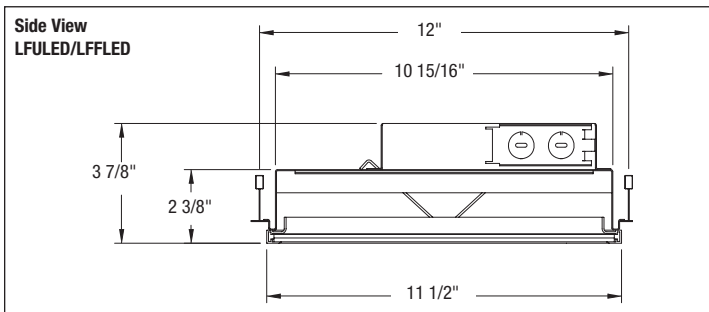
Type: _____ Quantity: _____ Project: _____

LED

LF_LED	11			MP		
FIXTURE/CEILING TYPE	LENGTH	WATTAGE	CCT (K)	OPTIC	DRIVER	OPTIONS
LFULED LIGHT FIELDS™ LED 15/16" Lay-In, Flush 9/16" Slot-Grid, Flush 9/16" Lay-In, Tegalur LFFLED LIGHT FIELDS™ LED 9/16" Lay-In, Flush LFTLED LIGHT FIELDS™ LED Center of Tile Mounting White LED Typical Ra / R9 Values 85CRI 10.7R9	11 1' x 1'	20W 20W 1300lm +/- 5% 24W 24W 1600lm +/- 5% <div> CCT Multiplier for Lumen Output 3000K 0.97 3500K 1.00 4000K 1.08 </div>	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 120/277V DH_* Lutron HiLume A Series * Specify "1" for 120V or "2" for 277V.	WF Whip Flex 3/8" X 6' 14 AWG WN_* Whip Flex 3/8" X 6' 14 AWG (NYC) CP** Chicago Plenum F Fusing PF Concealed Ceiling Plaster Frame Kit, Flangeless Appearance (<i>can only be ordered with LFU fixtures</i>) EM_* Standby Battery Pack, 750 lm, 10W WS105_* WattStopper Super High Frequency Sensor FM-105 * Specify "1" for 120V or "2" for 277V. ** Chicago Plenum option not available for Sheetrock Ceiling

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

LF11PF1 Concealed Ceiling Plaster Frame Kit, Flangeless Appearance, 1 Luminaire



COMPANION LUMINAIRE OPTIONS	FIF #	COMPANION LUMINAIRE OPTIONS	FIF #
2x2 LIGHT FIELDS™ LED – Recessed	1053	2x2 LIGHT FIELDS™ LED – Surface Mount / Suspended	1054
1x4 LIGHT FIELDS™ LED – Recessed	1050	1x4 LIGHT FIELDS™ LED – Surface Mount / Suspended	1051

Descriptions



IC-Rated

IBEW Union Made

*Suitable for damp locations
NYC Approved*



Registration, Evaluation and
Authorization of Chemicals

1. Housing – 20 gauge cold-rolled steel housing. Finish is powder-coated white. Post painted.

2. Wattage and CCT – 20W or 24W. 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. Also available with Lutron A-Series driver.

5. Mounting – Lay-in mounting for typical grid ceilings (LFULED). LFTLED mounting requires grid to be cutout. Fixture is supported by mounting bar attached to housing brackets with screws (by others). LFTLED mounting bracket is designed for 2' ceiling tiles only. 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.

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.

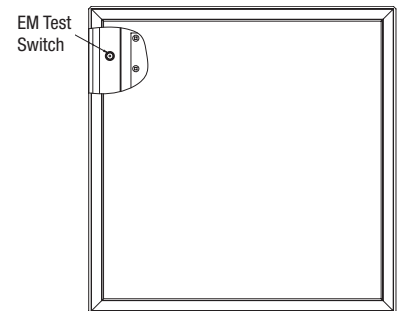
8. Standby Battery Pack – Remote standby battery pack with integral test switch. 90 minute run time, provides 750 lm with 10W.

9. MicroBinning™ – 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 MicroBin™ 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.

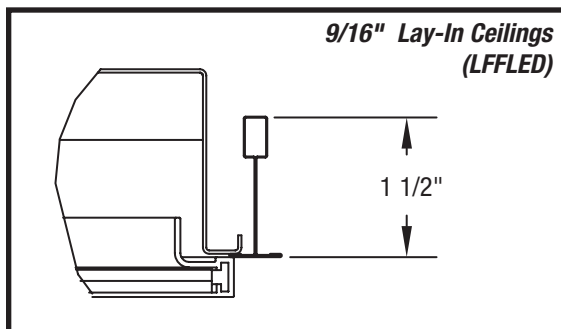
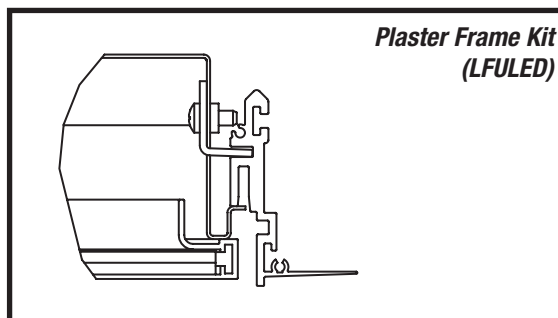
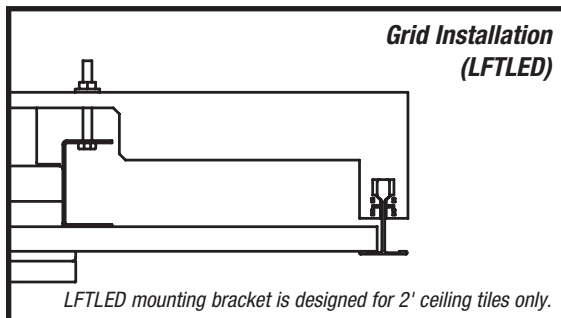
10. Weight – 6 lbs. with EM 11 lbs.

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



Mounting with common ceiling types

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



Mounting

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800-448-4131
zli.us@zumtobel.com

D00579TS 09/08/14

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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.

ZUMTOBEL

Photometric Data

LIGHT FIELDS™ LED, 1x1, 20W, 4000K

Efficacy = 68.3lm/W

Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45°	6772	7301	6774
55°	4485	3101	4504
65°	1877	2253	1898
75°	2160	1447	2177
85°	787	647	938

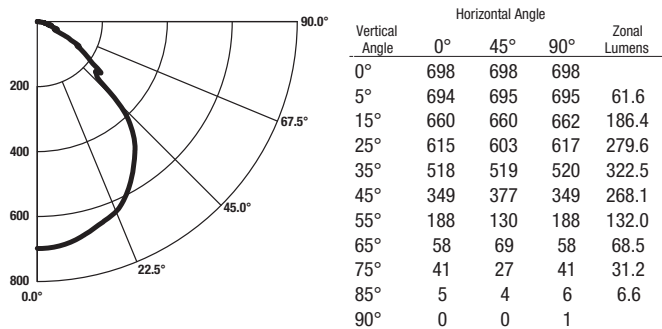
LIGHT FIELDS™ LED, 1x1, 24W, 4000K

Efficacy = 67lm/W

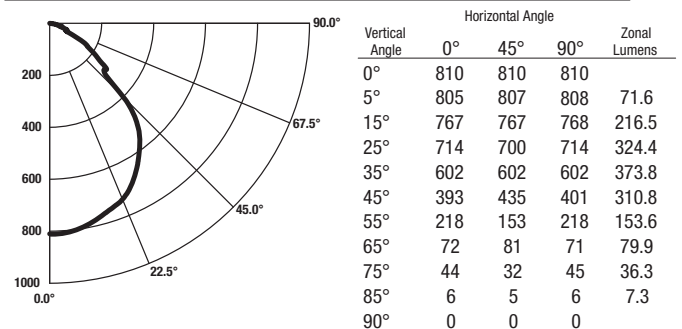
Luminance Data (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45°	7617	8437	7782
55°	5214	3650	5219
65°	2321	2635	2305
75°	2339	1682	2390
85°	988	710	913

Candela Distribution



Candela Distribution



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
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	83	88	85	82		
3	96	87	80	75	93	85	79	74	83	77	73	80	75	72		
4	89	79	71	65	87	77	70	65	75	69	64	73	68	63		
5	82	71	64	58	81	70	63	58	68	62	57	66	61	56		
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51		
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35		

Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50				30			
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30
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	83	88	85	82		
3	96	87	80	75	93	85	79	74	83	77	73	80	76	72		
4	89	79	71	66	87	77	70	65	75	69	64	73	68	63		
5	82	71	64	58	81	70	63	58	68	62	57	67	61	57		
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51		
7	72	60	52	46	70	59	52	46	57	51	46	56	50	46		
8	67	55	47	42	66	54	47	42	53	46	42	52	46	41		
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38		
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35		