

LT-TB F Series

100V-277 VAC, 10W (2') and 20W (4'), CCT 3500K,
Dimmable, 9/16" Wide, T-Grid LED Lighting System

Catalog #		Type
Project		Date
Prepared by		



T-Grid bracket

+



LED Linear Module

DESCRIPTION

The LT-TB F Series T-grid LED lighting system is a unique separate design with LED module and T-Grid bracket. It offers lighting designers more freedom to design since the led module can follow the ceiling elements in many different ways, which can provide versatility and is compatible with various T-Grids. It is available in 2' and 4' units with 9/16" fine line ceiling with remote driver which drives 3 units. These fixtures have 0-10V dimming and are available in 10W and 20W versions and with a CCT of 3500K. It has a 5 year/50,000 hour warranty.

Mounting

The LT-TB F linear T-Grid light is a lighting solution that integrated into T-Grid for suspended ceilings, allowing it to be fully and seamlessly integrated or retrofitted into flat 9/16" T-Grid of suspended ceiling. It can replace selected cross tees of the grid ceiling system where light is desired. The fixtures can be connected up to 3 fixture strips per Driver.

REGULATORY & VOLUNTARY QUALIFICATIONS

- c-UL-us Listed
- Suitable for Damp Locations
- DLC Qualifications
- LM79 Report

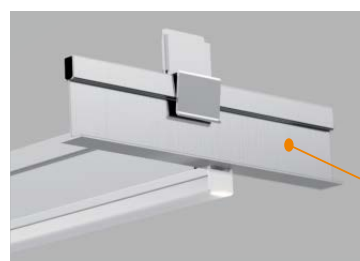
Ordering Information

Model

- LT-TB2-DM-35F = 100V-277 VAC, 2' Dimmable, 10W, 3500K CCT, 9/16" Wide T-Grid Light
- LT-TB4-DM-35F = 100V-277 VAC, 4' Dimmable, 20W, 3500K CCT, 9/16" Wide T-Grid Light
- LT-TB2-DM-35F-CP = 100V-277 VAC, 2' Dimmable, 10W, 3500K CCT, 9/16" Wide, Custom Pattern T-Grid Light
- LT-TB2-DRIVER = 30W Driver for 2' T-grid Light (1 driver per 3 lights)
- LT-TB4-DRIVER = 60W Driver for 4' T-grid Light (1 driver per 3 lights)



T-Grids Ceiling Compatibility



Fine Line Ceiling (Flat)

LT-TB2-DM-35F (Flat)

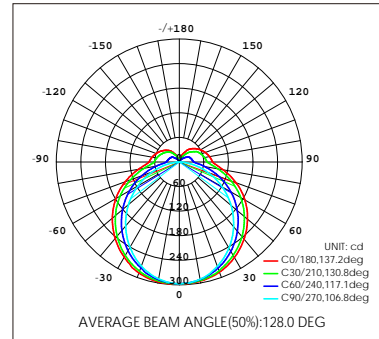
PERFORMANCE SUMMARY		
Model Number	LT-TB2-DM-35F	LT-TB2-DM-35F
Size	2-Foot	4-Foot
CCT	3500K	3500K
Light Output	~1100 Lumens	~2400 Lumens
Efficacy	~110 lm/W	~120 lm/W
Power	10W	20W
Beam Angle	123°	128°
Driver	TB2-DRIVER (1 per 3 Strips)	TB4-DRIVER (1 per 3 Strips)
Input Voltage	100-277V AC	
CRI	Ra >80	
Mounting	T-Grid	
Dimming	0-10V Dimming (12%-100%)	
Recommended Dimmers	Lutron DDTV, Lutron NTSTV-DV	
Warranty	L70: 50,000 hours / 5 yrs.	

PHOTOMETRY

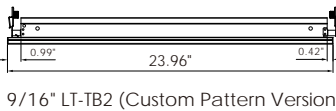
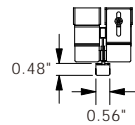
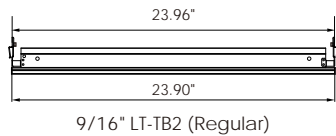
Fixture photometry has been conducted accredited testing laboratory in accordance with IESNA LM-79-08. IESNA LM-79-08 specifies the entire luminaire as the source resulting in a fixture efficiency of 100%. Result may vary per actual order.

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

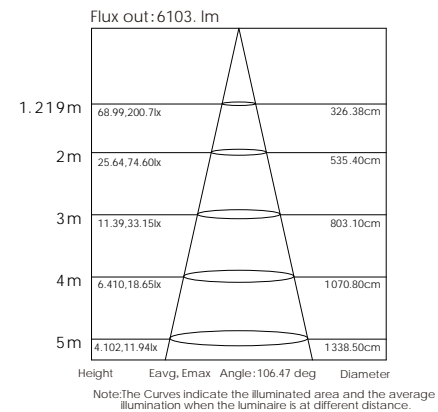
LT-TB2-DM-XXF (Flat)



DIMENSION



AVERAGE ILLUMINANCE CURVE



ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180	C225	C270	C315
10	295.2	292.6	290.7	293.3	297.1	293.3	289.8	291.5
20	286.2	279.0	271.0	280.0	288.2	279.9	270.3	277.1
30	269.2	258.0	242.3	258.0	268.8	257.4	240.8	255.3
40	245.7	230.0	206.2	228.6	243.6	227.7	203.8	226.8
50	217.4	197.1	165.0	193.9	213.5	192.9	162.2	193.4
60	184.6	160.2	120.7	155.5	178.9	154.1	116.3	155.9
70	147.0	120.1	74.5	114.2	140.2	112.6	69.35	115.5
80	108.2	79.96	29.44	73.39	100.4	72.28	24.87	75.81
90	81.66	53.09	0.0606	46.95	74.29	48.08	0.0211	48.83

DEG LUMINOUS INTENSITY:cd

ZONAL LUMEN SUMMARY

T	φzone	φtotal	%lum, lamp
0-10	28.15	28.15	2.4, 0.42
10-20	81.06	109.2	9.3, 1.63
20-30	123.8	233.0	19.8, 3.47
30-40	151.5	384.5	32.7, 5.73
40-50	162.0	546.5	46.5, 8.15
50-60	155.1	701.6	59.7, 10.5
60-70	132.0	833.6	79.2, 13.9
70-80	96.80	930.4	84.4, 14.8
80-90	60.91	991.3	88.4, 15.5

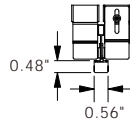
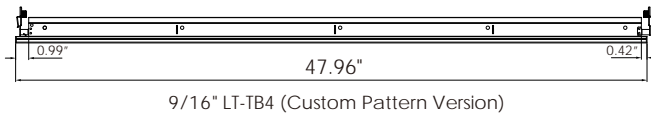
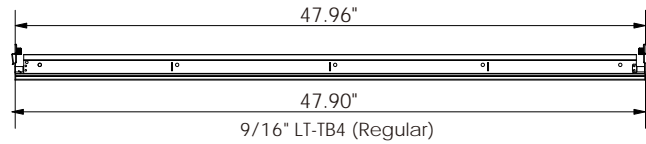
UNIT:lm

COEFFICIENTS OF UTILIZATION

ppc	80%				70%				50%				30%				10%				0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0		
pw	20%																0				
pfc	20%																0				
RCR	RCR:Room Cavlty Ratio								(CU)												
0.0	20	20	20	19	19	19	18	18	18	17	17	17	15	15	15	15	15	15	15		
1.0	17	16	15	16	16	15	15	15	14	14	14	13	13	13	13	12	12	12	12		
2.0	15	13	12	14	13	12	13	12	11	12	11	11	11	11	11	10	10	9	9		
3.0	13	11	10	12	11	10	11	10	9	11	10	9	10	9	8	8	8	8	8		
4.0	11	10	8	11	9	8	10	9	8	9	8	7	9	8	7	7	7	7	7		
5.0	10	8	7	10	8	7	9	8	7	8	7	6	8	7	6	6	6	6	6		
6.0	9	7	6	9	7	6	8	7	6	7	6	5	7	6	5	5	5	5	5		
7.0	8	7	6	8	6	5	7	6	5	6	5	4	6	5	4	4	4	4	4		
8.0	7	6	5	7	6	5	6	5	4	5	4	3	5	4	3	3	3	3	3		
9.0	7	5	4	7	5	4	5	4	3	4	3	2	4	3	2	2	2	2	2		
10.0	6	5	4	6	5	4	5	4	3	4	3	2	3	2	1	1	1	1	1		

LT-TB4-DM-35F (Flat)

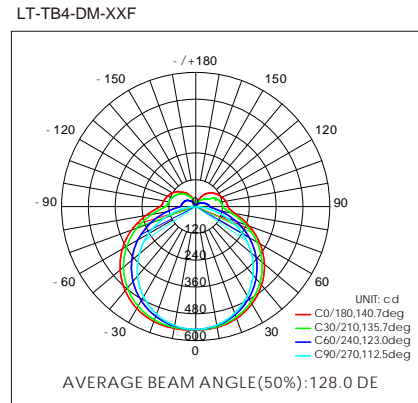
DIMENSION



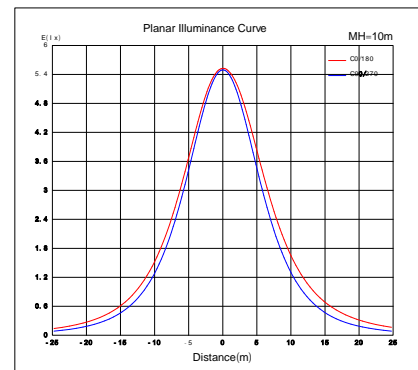
PHOTOMETRY

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LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE ILLUMINANCE CURVE



ZONAL FLUX DIAGRAM

T	C0	C45	C90	C135	C180	C225	C270	C315
10	548.9	542.9	538.5	544.4	553.5	546.3	540.8	543.3
20	533.0	521.8	508.3	528.2	547.3	531.3	512.4	523.3
30	502.6	485.4	460.8	498.2	527.0	501.7	466.5	488.1
40	458.2	435.4	399.0	453.4	491.1	457.6	405.0	438.3
50	401.0	372.8	324.8	395.8	441.1	399.8	330.4	375.6
60	332.2	299.4	240.3	326.9	378.8	330.3	243.3	301.4
70	254.4	217.2	148.1	247.6	305.4	250.4	149.5	218.5
80	179.3	137.5	57.14	166.1	224.7	168.0	56.53	137.8
90	145.1	95.91	1.899	105.4	460.3	105.8	1.309	98.94
DEG	LUMINOUS INTENSITY:cd							

ZONAL LUMEN SUMMARY

T	φzone	φtotal	%lum, lamp
0-10	52.25	52.25	2.26,1.95
10-20	151.7	204.0	8.83,7.62
20-30	235.4	439.3	19,16.4
30-40	293.3	732.6	31.7,27.4
40-50	318.8	1051	45.5,39.3
50-60	308.8	1360	58.9,50.8
60-70	264.4	1625	70.4,60.7
70-80	193.6	1818	78.7,67.9
80-90	122.2	1940	84,72.5
	UNIT:lm		

COEFFICIENTS OF UTILIZATION

ppc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	
pw	20%															0
pfC	20%															
RCR	RCR:Room Cavity Ratio															
	(CU)															
0.0	99	99	99	96	96	96	88	88	88	82	82	82	75	75	75	73
1.0	84	80	76	81	77	74	75	72	69	69	66	64	64	62	60	57
2.0	72	66	61	70	64	59	64	59	55	55	55	52	55	52	49	46
3.0	63	55	49	61	54	48	56	50	46	46	47	43	48	44	41	38
4.0	55	47	41	53	46	40	49	43	38	38	46	41	36	42	34	32
5.0	49	41	35	47	40	34	44	38	33	33	41	35	31	38	30	27
6.0	44	36	30	43	35	30	40	33	28	28	37	31	27	34	29	24
7.0	40	32	27	38	31	26	36	30	25	25	33	28	24	31	26	21
8.0	36	29	24	35	28	23	33	27	22	22	31	25	21	29	24	18
9.0	33	26	21	32	25	21	30	24	20	20	28	23	19	26	22	16
10.0	30	24	19	29	23	19	28	22	18	18	26	21	17	24	20	15

LT-TB4-DM-35F (Flat)

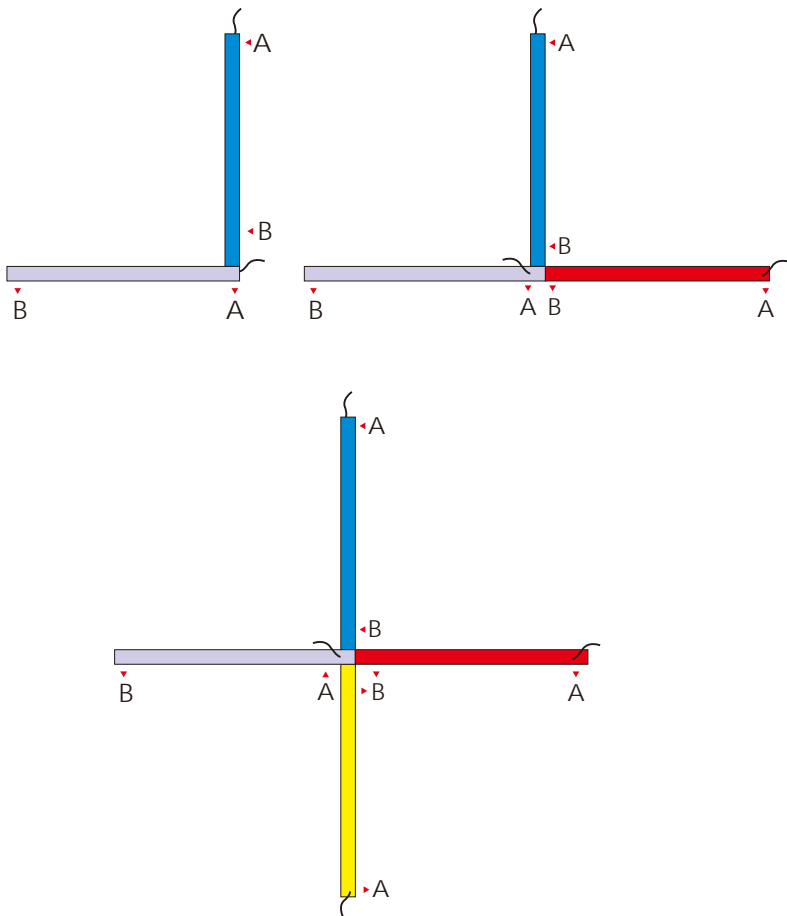
DESIGN CUSTOM PATTERN TO YOUR SPACE

It is free to create compelling spaces, and your space no longer has to be restricted to a single pattern on the ceiling. You can customize the lighting patterns in your ceiling to produce a creative, modern look.

Regular



Custom Pattern Version



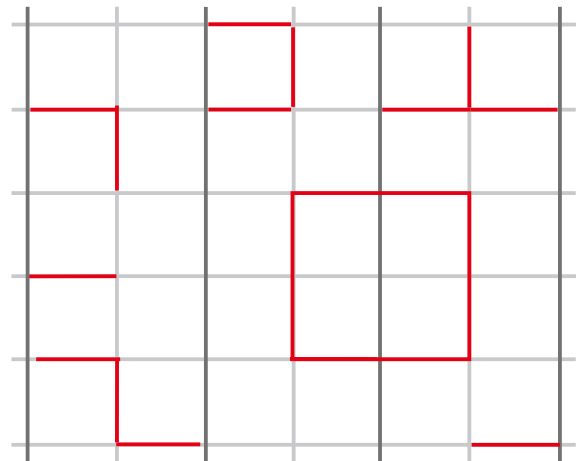
Remark: Only one A-end with wire in joint

FLEXIBLE LIGHTING SOLUTION

Considering different dimension and functions of a room, the linear light will at any point provide the desired light level. Your room no longer has to be ruled by a single fixture in the ceiling, providing a flexible general lighting solution for commercial and institutional environments such as offices, classrooms, retail and public space.



T-Grid LED can be installed in many configurations by relacing any of the cross tees between the main runners of the grid ceiling assembly.



- Examples of configurations
- Possible positions for T-grid LED light modules
- One-piece main runner cannot be replaced