



Client:	
Order #:	
Project:	
Type:	

DESCRIPTION

The Grid is a new generation green lighting solution that integrated into T-Grid suspended ceilings, allowing to be fully and integrated into 9/16" flat, 9/16" slot, 9/16" interlude or 15/16" flat T-grid. It can replace selected cross tees of the suspended grid ceiling system where light is desired. The innovative separable design of led module and T-grid bracket makes it more flexible. One T-grid bracket allows for integration of multiple LED modules with different CCT with easy and tool-free installation. This innovative produce design brings both performance and aesthetics to any design applications.

FEATURES

- US Patent, UL, cUL, DLC
- Available in 2' and 4' with remote driver
- Flexible separable design of LED module and T-grid bracket
- Plenum rated cable, connector, emergency option available
- Continuous runs and custom pattern
- CCEA option available
- Fit most ceiling types

PERFORMANCE DATA

CRI

70+

CCT

3000K, 3500K, 4000K, 5000K

Projected Lifetime

>50,000 Hours (L80)

Dimming

0-10V Dimming Standard,
10% down to 100%

Operating Temperature

-20°C to +40°C Ambient

Warranty

5 year Standard
10 year Optional

ORDERING INFORMATION

THE GRID							
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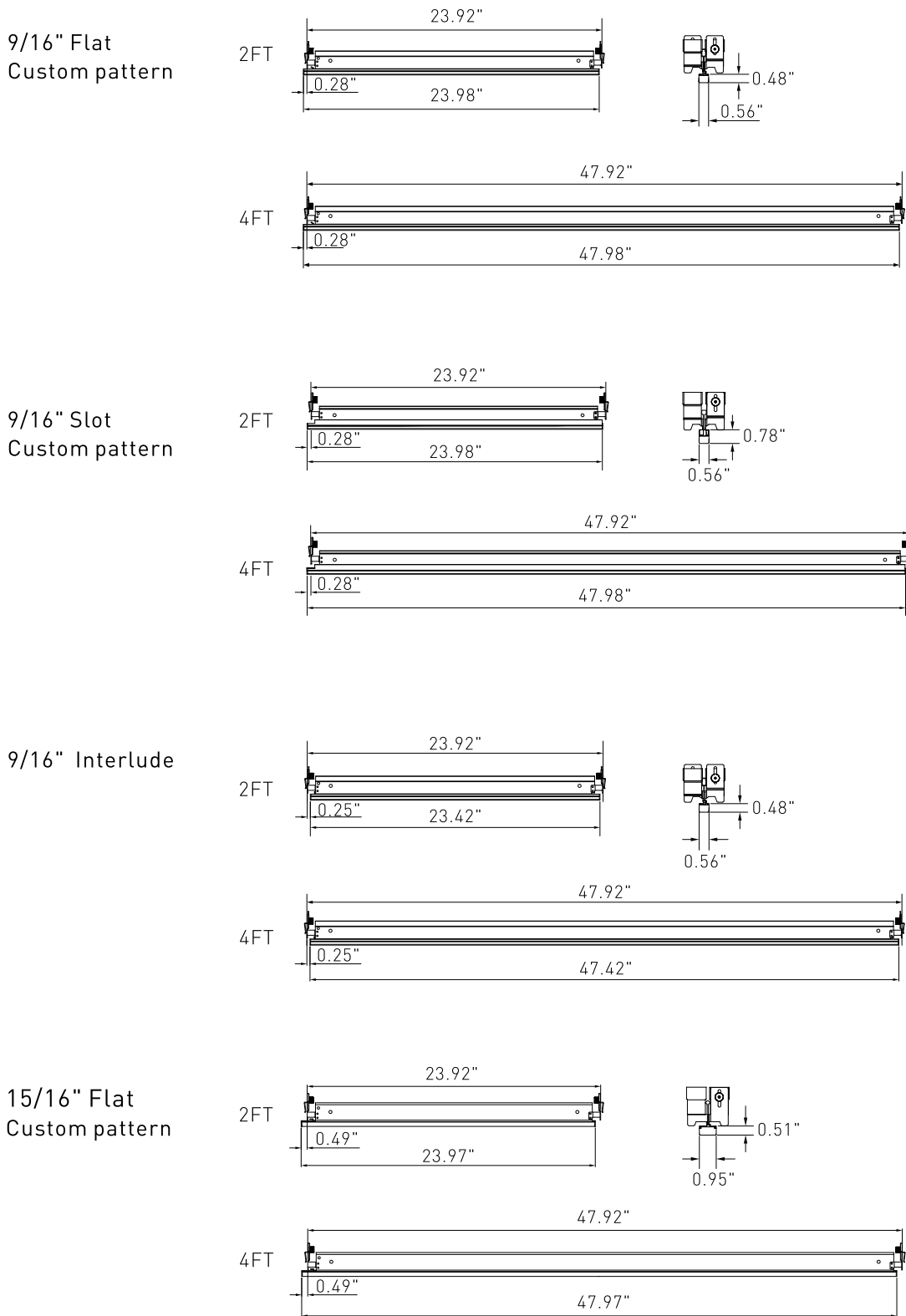
	B	C	D	E	F	G	H
A	FIXTURE SERIES		C		OPTIONS		
	The Grid		CCT		E Emergency		
B	WATTAGE/LUMENS Size 2'		30 3000K		G		
	30	30W/3929 ¹	35 3500K		GRID TYPE		
	WATTAGE/LUMENS Size 4'		40 4000K		F 9/16" Flat - Custom pattern		
	60	60W/7877 ¹	50 5000K		S 9/16" Slot - Custom pattern		
D	VOLTAGE		E		I 9/16" Interlude ³		
	UNV 120-277V		FINISH		U 15/16" Flat - Custom pattern		
E	WH White		H		WARRANTY²		
					- 5 Year Warranty		
					10 10 Year Warranty		
					10L 10 Year Warranty including labor		

¹Delivered Lumens (3500K)

² 5 Year Warranty is Standard unless specified

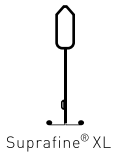
³ Additional cost and/or lead time on customized fixtures may apply. Some fixtures require an MOQ.

DIMENSION

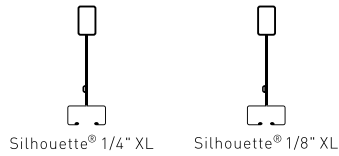


T-GRIDS CEILING COMPATIBILITY

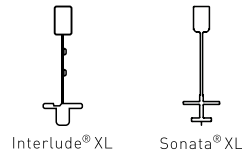
9/16" Flat



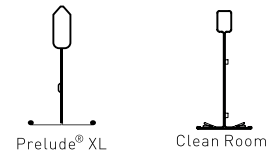
9/16" Slot



9/16" Interlude



15/16" Flat

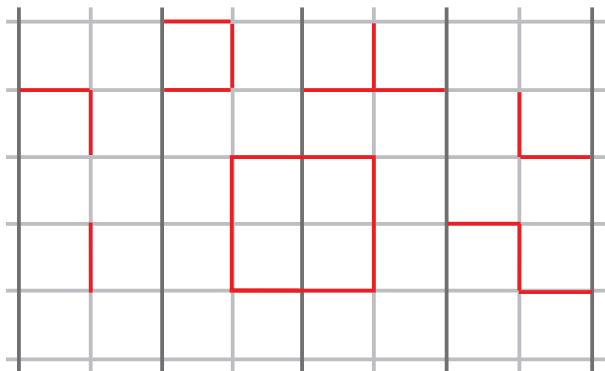


CUSTOM PATTERN



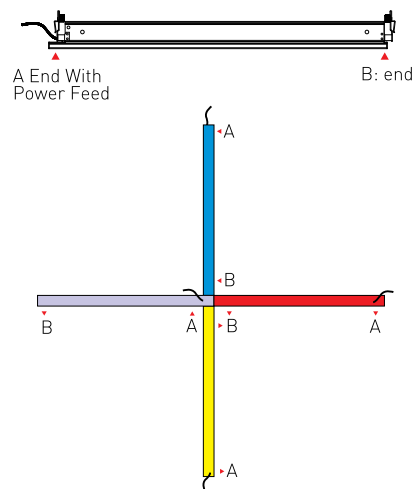
T-Grid LED can be installed in many configurations by replacing any of the cross tees between the main runners of the grid ceiling assembly.

It is free to create compelling spaces, and your space no longer has to be restricted to a single pattern on the ceiling. Custom pattern such as "L", "T", "+", "□" etc.



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

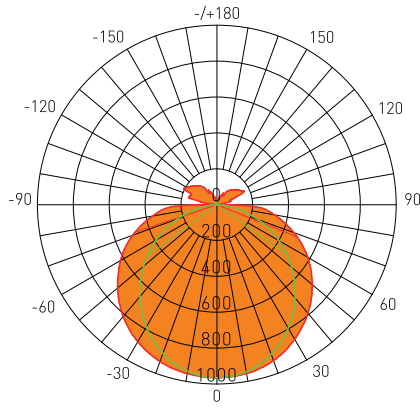
Custom Pattern Version



Remark: Only one A-end with wire in joint

DISTRIBUTION DIAGRAM

2' : 9/16" Flat



AVERAGE BEAM ANGLE(50%): 123.8°

Test Number: TB2-DM-35F
Lumens: 3648.5 Lm
Watts: 30 W
LPW: 121.62 Lm/W
CCT: 3500K

UNIT: cd
— C0/180,139.6
— C90/270,108.0

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	955.6	950.8	945.9	951.0	956.1
20	924.4	910.7	887.0	913.1	930.1
30	867.6	839.9	795.0	848.5	882.2
40	789.3	746.1	678.0	758.4	813.4
50	693.1	635.1	545.0	653.8	722.6
60	583.9	512.6	399.3	535.0	620.3
70	458.0	379.2	245.9	405.5	500.9
80	324.6	242.7	95.57	269.6	364.7
90	80.83	70.90	4.782	90.84	103.1
100	10.41	40.45	4.675	79.89	92.34
110	80.23	101.4	3.240	132.4	156.4
120	157.0	92.75	3.333	126.5	194.7
130	130.3	79.22	4.397	111.0	164.9
140	103.6	46.74	4.536	83.33	134.2
150	74.85	31.85	4.673	37.28	94.14
160	33.69	21.34	4.675	30.00	39.77
170	19.10	10.73	4.538	14.30	24.94
180	4.119	5.222	5.184	5.553	5.017
DEG	LUMINOUS INTENSITY:cd				

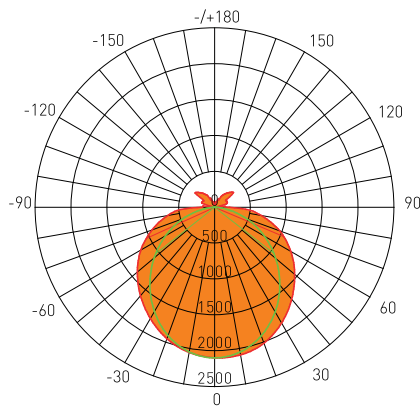
Zonal Lumens

τ	φ total
0-10	91.38
10-20	354.8
20-30	758.5
30-40	1255
40-50	1787
50-60	2299
60-70	2738
70-80	3062
80-90	3249
90-100	3274
100-110	3348
110-120	3448
120-130	3534
130-140	3591
140-150	3625
150-160	3642
160-170	3648
170-180	3649
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	30352	4171
80	18706	5562
75	15121	6540
70	13398	7179
65	12392	7643
60	11685	7987
55	11183	8254
50	10789	8480
45	10526	8670

4' : 9/16" Flat



AVERAGE BEAM ANGLE(50%): 118.0°

Test Number: TB4-DM-35F
Lumens: 7350.5 Lm
Watts: 60 W
LPW: 122.51 Lm/W
CCT: 3500K

UNIT: cd
— C0/180,132.4
— C90/270,103.7

Zonal Flux Diagram

τ	C0	C45	C90	C135	C180
10	2089	2083	2050	2048	2054
20	2014	1987	1906	1924	1950
30	1866	1817	1687	1745	1792
40	1672	1584	1415	1522	1609
50	1456	1328	1113	1277	1407
60	1227	1062	799.1	1027	1186
70	968.4	781.5	480.8	758.3	932.0
80	658.2	505.1	182.5	491.4	664.0
90	166.4	127.1	7.781	142.4	194.9
100	24.14	32.97	7.796	34.79	27.17
110	188.3	112.3	7.871	115.5	192.8
120	185.1	226.2	5.416	234.0	180.1
130	327.7	194.3	6.904	198.3	323.6
140	258.3	121.8	7.795	150.2	255.5
150	129.0	69.50	7.713	106.4	173.5
160	70.62	59.56	7.549	63.88	72.90
170	23.81	27.35	10.02	21.93	23.77
180	6.392	8.461	11.08	8.867	7.927
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens

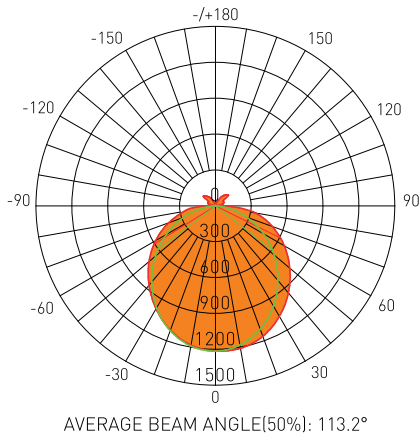
τ	φ total
0-10	198.5
10-20	766.6
20-30	1626
30-40	2663
40-50	3756
50-60	4791
60-70	5667
70-80	6305
80-90	6650
90-100	6732
100-110	6819
110-120	6951
120-130	7108
130-140	7235
140-150	7307
150-160	7338
160-170	7349
170-180	7351
UNIT: lm	

Luminance cd/(m2)

G(DEG)	C0/180	C90/270
85	56718	7419
80	37914	10508
75	31404	12596
70	28323	14056
65	26049	15130
60	24546	15981
55	23458	16667
50	22655	17309
45	22163	17901

DISTRIBUTION DIAGRAM

2' : 15/16" Flat



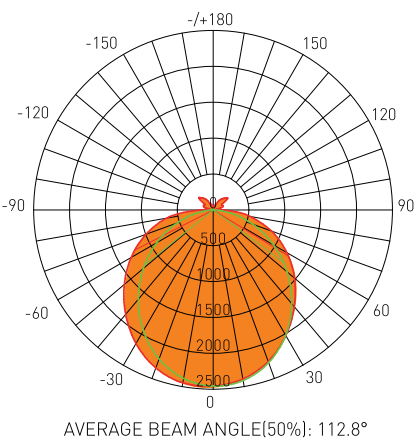
Test Number: TB2-DM-35U UNIT: cd
 Lumens: 3929.5 Lm — C0/180,121.7
 Watts: 30 W — C90/270,104.7
 LPW: 130.98 Lm/W
 CCT: 3500K

Zonal Flux Diagram					
τ	C0	C45	C90	C135	C180
10	1209	1197	1182	1179	1183
20	1160	1135	1097	1100	1106
30	1069	1032	969.8	981.5	994.4
40	949.8	897.5	813.5	838.9	865.9
50	812.1	745.3	642.4	684.7	726.7
60	665.0	586.4	462.4	525.3	577.4
70	507.6	421.5	279.9	359.8	418.5
80	337.4	255.9	106.9	201.9	266.4
90	70.64	54.47	7.822	52.54	64.96
100	6.505	14.63	1.276	15.31	7.789
110	73.37	49.46	8.152	47.50	68.83
120	74.42	99.24	8.385	95.48	69.09
130	141.6	94.10	4.775	82.93	130.5
140	117.7	68.19	4.555	63.01	104.1
150	75.28	39.68	4.531	41.25	69.66
160	32.87	29.51	4.638	25.03	26.27
170	12.04	11.16	5.354	8.723	9.498
180	5.843	6.003	5.683	6.647	5.171
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens	
τ	φ total
0-10	114.8
10-20	442.4
20-30	935.1
30-40	1525
40-50	2139
50-60	2708
60-70	3174
70-80	3494
80-90	3642
90-100	3675
100-110	3709
110-120	3761
120-130	3824
130-140	3879
140-150	3911
150-160	3924
160-170	3929
170-180	3929
UNIT: lm	

Luminance cd/(m2)		
G(DEG)	C0/180	C90/270
85	22893	4464
80	19432	6155
75	16424	7374
70	14844	8184
65	13906	8764
60	13303	9246
55	12894	9636
50	12636	9993
45	12484	10320

4' : 15/16" Flat



Test Number: TB4-DM-35U UNIT: cd
 Lumens: 7877.7 Lm — C0/180,121.3
 Watts: 60 W — C90/270,104.4
 LPW: 131.30 Lm/W
 CCT: 3500K

Zonal Flux Diagram					
τ	C0	C45	C90	C135	C180
10	2392	2411	2415	2440	2446
20	2246	2270	2264	2324	2343
30	2024	2042	2020	2117	2152
40	1760	1749	1705	1842	1900
50	1480	1431	1346	1526	1617
60	1185	1104	969.9	1200	1318
70	869.2	763.0	588.5	856.8	998.9
80	518.9	435.3	227.8	515.9	659.8
90	118.9	97.66	10.90	105.9	139.6
100	16.83	26.28	10.90	25.35	15.79
110	144.9	87.28	9.517	85.58	140.5
120	141.5	184.0	6.146	180.9	141.7
130	262.5	157.3	6.719	165.4	267.7
140	206.3	114.7	7.622	125.7	214.2
150	132.2	66.79	8.359	88.85	145.4
160	56.40	46.52	8.359	58.15	61.68
170	22.69	20.41	10.74	24.82	26.87
180	8.597	9.841	12.29	10.70	9.323
DEG	LUMINOUS INTENSITY:cd				

Zonal Lumens	
τ	φ total
0-10	232.2
10-20	895.5
20-30	1984
30-40	3088
40-50	4326
50-60	5470
60-70	6405
70-80	7042
80-90	7329
90-100	7389
100-110	7456
110-120	7556
120-130	7675
130-140	7780
140-150	7841
150-160	7868
160-170	7876
170-180	7878
UNIT: lm	

Luminance cd/(m2)		
G(DEG)	C0/180	C90/270
85	37355	9611
80	29897	13118
75	26506	15533
70	25426	17208
65	24387	18425
60	23713	19399
55	23266	20203
50	23035	20947
45	22937	21625

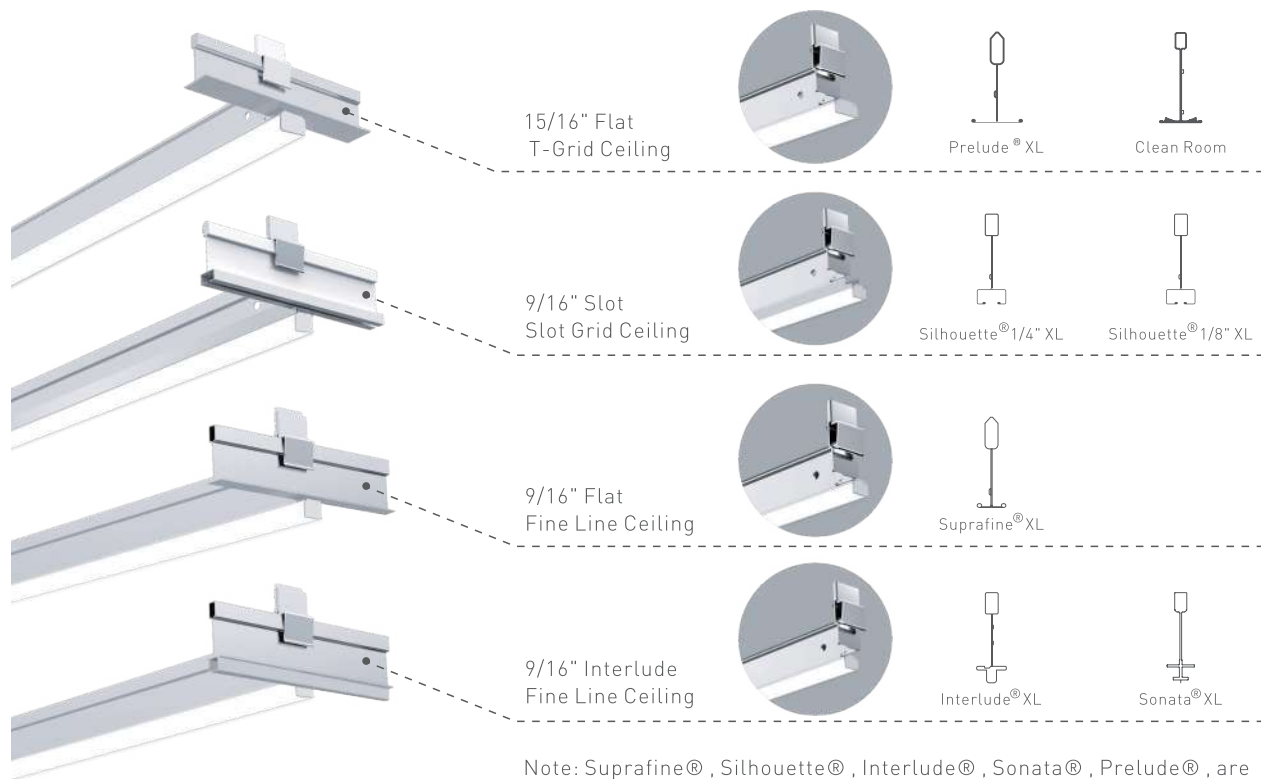
Almost Integrated To The T-grid Ceiling
Slim Profile 0.48" Thickness



Versatility Meets Simplicity

Truly Universal Compatibility

It is a new generation green lighting solution that integrated into T-Grid suspended ceilings, allowing to be fully and seamlessly integrated into 9/16" flat, 9/16" slot, 9/16" interlude or 15/16" flat T-grid. It can replace selected cross tees of the suspended grid ceiling system where light is desired.



Note: Suprafine®, Silhouette®, Interlude®, Sonata®, Prelude®, are trademarks of Armstrong World Industries (AWI) company.

Lens Challenge

4 Different Precise Optics

The TB series is certain to meet the most stringent of application requirements. This innovative produce design brings both performance and aesthetics to any design applications.

Milky Diffuser

9/16" Flat, 9/16" Interlude,
9/16" Slot and 15/16" Flat
120° Beam Angle

T-Grid LED with diffusing cover has an added unique design with triple sides, to allow the light to diffuse for a direct and indirect lighting combination with 120° beam angle, and create a particular architectural statement while distributing the lumens over the entire space.



Micro Reflector

15/16"
85° Beam Angle

T-Grid LED with reflector is a great choice for applications where a concentrated angle of light is desired on task areas or table top surfaces with 85° beam angle.



Clear Lens

15/16"
70° or 90° Beam Angle

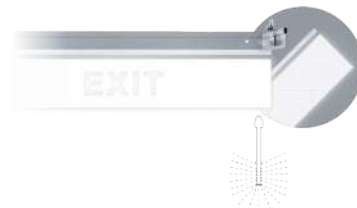
T-Grid LED with diffusing lens for direct lighting is equipped with controlled light distributions of beam angle options 70° and 90° for controlled distribution.



Signage

9/16"
110° Beam Angle

This is a perfect minimalistic solution for providing a flexible led sign with big beam angle, achieving indication and illumination function for commercial and institutional environments.



Lower Your Stock Risk Replace The LED Module Randomly

The innovative separable design of led module and T-Grid bracket makes it more flexible. One T-grid bracket allows for seamless integration of multiple led modules with different CCT or types with easy and tool-free installation.



Ease Replaceable

Built on the core of its modern, practical design philosophy, the TB series allow easy access to repair or replacement of different CCT or lens becomes necessary.

- ① Remove the existing LED module



- ② Put in new LED module with different color temperatures or lens.



- ③ It's done in seconds



Flexible Lighting Solutions No Application Is Out of Reach

T-Grid LED can be installed in many configurations by replacing any of the cross tees between the main runners of the suspended grid ceiling system assembly, providing a flexible general lighting solution for commercial and institutional environments such as offices, classrooms, retail and public space.

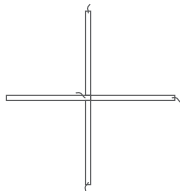
Custom Pattern Version



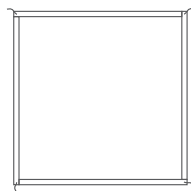
Shape: L	
Qty	Parts
1	2' Linear Light
1	4' Linear Light



Shape: T	
Qty	Parts
2	2' Linear Light
1	4' Linear Light



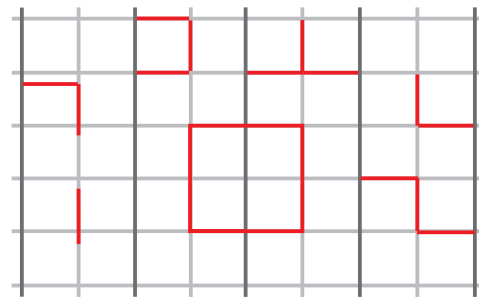
Shape: +	
Qty	Parts
4	2' Linear Light



Shape: □	
Qty	Parts
4	4' Linear Light

Custom Configuration

Considering different dimension and functions of a room, it is free to create compelling spaces, and your space no longer has to be restricted to a single pattern on the ceiling.



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

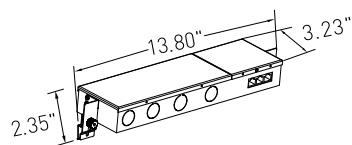


Easy Wiring And Mess Free Save Cost Without Compromising Style

Brilliant design and intuitive engineering fearlessly combine to deliver unprecedented performance. TB series' striking contrast of effortless style and urban edginess makes a distinct statement in any suspending ceiling space. It can be parallel connected up to 6ft (2' fixture) and 12ft (4' fixture) max per power supply. Max distance from fixtures to power supply is 8 feet with 24 AWG cable. RJ45 terminal make easy installation and safe wiring.

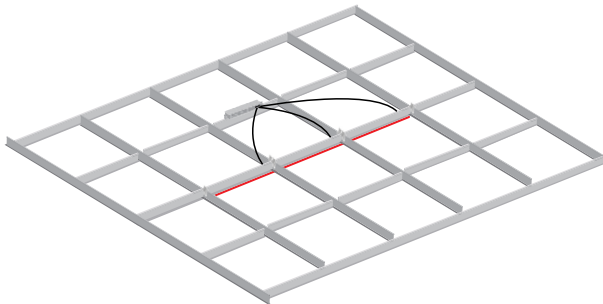
Remote LED Driver

It can be parallel connected up to 6ft (2' fixture) and 12ft (4' fixture) max per power supply. Max distance from fixtures to power supply is 8 feet with 24 AWG cable. RJ45 terminal make easy installation and safe wiring.



Optional Functions:

- 24V DC Options
- Emergency Option
- CCEA Option
- Custom Cable Length
- Plenum Rated Cable Option



IC Rated

OKT's T-grid LED is IC rated, which has additional insulation materials either by code or design requirement for installation in suspended ceilings.