

# LUXRITE®

## GRID SMART

LIGHTING SYSTEM

2FT, 4 FT

DIMMABLE

0-10V

0.48"  
THICK

0.51"  
THICK



REMOTE DRIVER WITH  
QUICK CONNECT CABLE

AVAILABLE IN

3000K

3500K

4000K

5000K

9/16"

15/16"



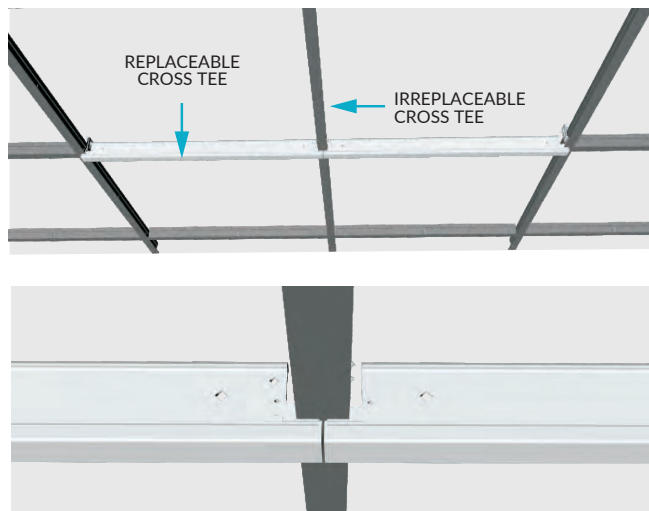
## PRODUCT DESCRIPTION

The GRID SMART is the ideal lighting solution for suspended ceilings, its innovative design allows it to be fully and seamlessly integrated into 9/16" or 15/16" T-Grid suspended ceilings.

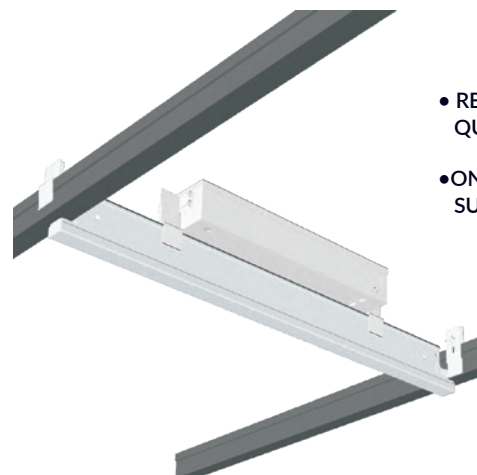
Considering the different dimensions and functions of a room, the GRID SMART will at any point, provide the desired light level. Since one driver supports up to three units, the GRID SMART provides a wide variety of configurations and more freedom to design versatile and functional lighting solutions that will fit your needs.



## APPLICATION



## REMOTE DRIVER



- REMOTE DRIVER WITH QUICK CONNECT
- ONE DRIVER CAN SUPPORT 3 UNITS

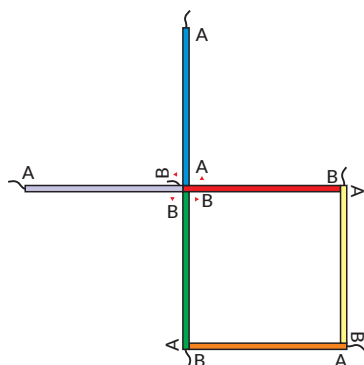
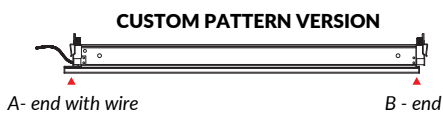
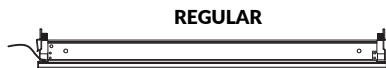


**QUICK CONNECT**

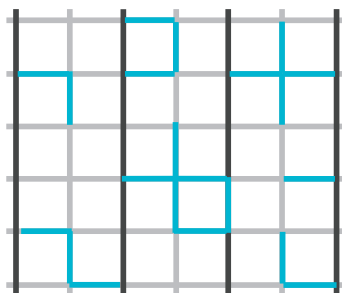
## SEAMLESS CONTINUOUS RUNS



## DESIGN CUSTOM PATTERNS FOR YOUR SPACE

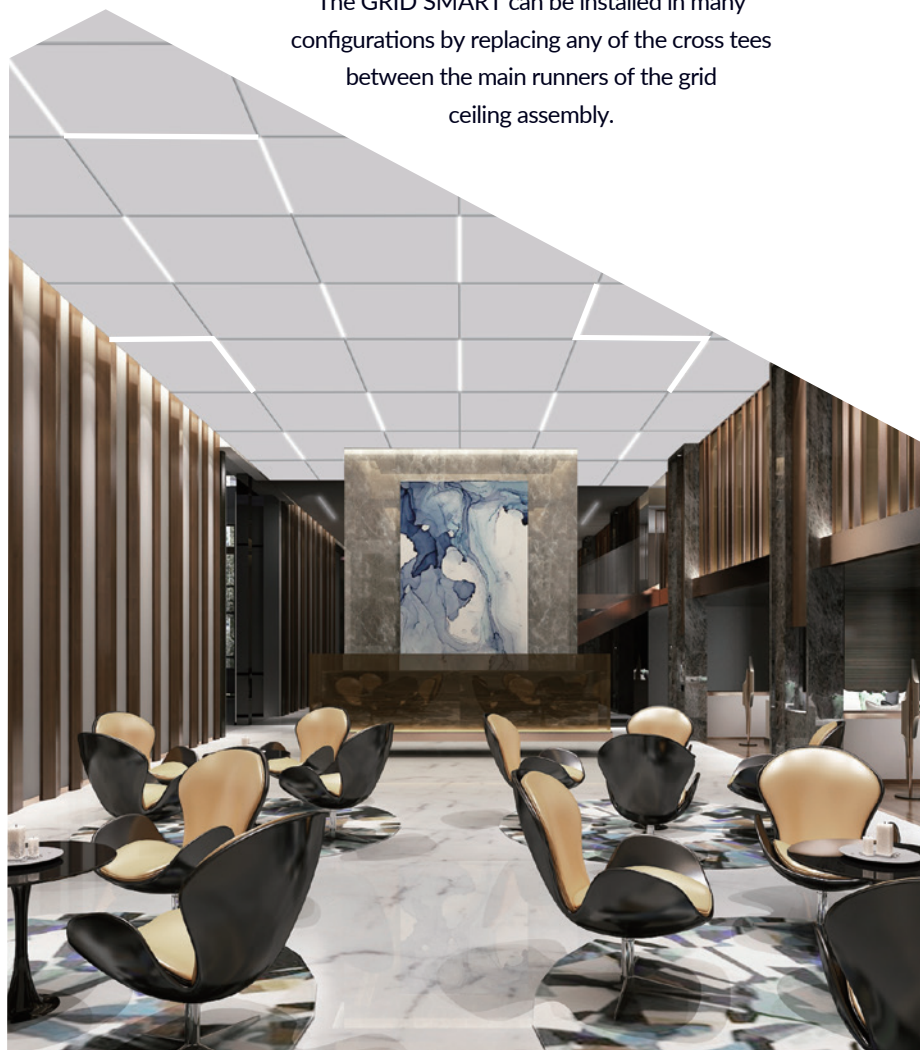


REMARK: Only one A - end with wire in joint



- EXAMPLES OF CONFIGURATIONS
- POSSIBLE POSITIONS FOR GRID SMART LED LIGHT MODULES
- ONE-PIECE MAIN RUNNER CANNOT BE REPLACED BY MODULES

The GRID SMART can be installed in many configurations by replacing any of the cross tees between the main runners of the grid ceiling assembly.





## LED GRID SMART



### ORDERING CODE

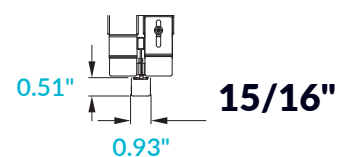
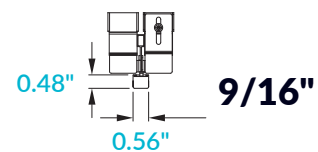
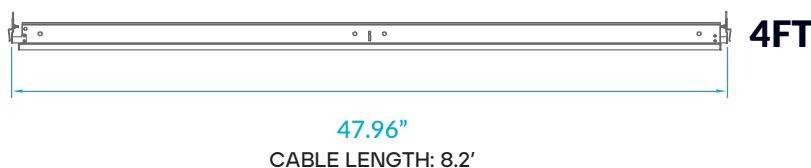
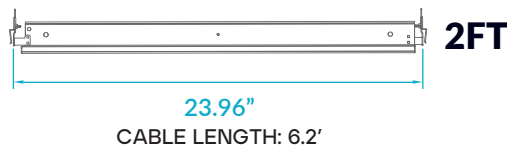
(EXAMPLE: LEDGS/24/D/30K/U/916)

BAR SERIES	LENGTH	LENS	COLOR	BRACKET	GRID
1	2	3	4	5	6
LEDGS	24	D= DIFUSED	30K = 3000K	U	916= 9/16"
	48		35K = 3500K		1516= 15/16"
			40K = 4000K		
			50K = 5000K		

### SPECIFICATIONS

2FT	GENERAL							LIFE					
	TYPE	L	x	W	x	H	DIMMING	DRIVER	UL LISTED	HOURS	YEARS	COST/YR	WARRANTY
	916	23.96"		0.56"		0.48"	0-10V	1 for 3		50,000	45.7	\$1.20	5 YEAR
1516	23.96"		0.93"		0.51"								
4FT	GENERAL							LIFE					
	TYPE	L	x	W	x	H	DIMMING	DRIVER	UL LISTED	HOURS	YEARS	COST/YR	WARRANTY
	916	47.96"		0.56"		0.48"	0-10V	1 for 3		50,000	45.7	\$1.20	5 YEAR
1516	47.96"		0.93"		0.51"								
ELECTRICAL			PHOTOMETRIC					COMATIBLE DIMMERS					
POWER	INUT VOLTS	CURRENT	LUMENS	COLOR	LUMEN EFFICACY	CRI	FLOOD°	LUTRON DIVA-DVTV, NOVA-NTSTV-TV					
10W	100-277V	<2mA	1300	3000K	130	80	120°	<p>*The presence of a dimmer on this chart is not a guarantee of the compatibility of the module in any particular installation. Absence of a dimmer on this chart does not imply incompatibility. Please reference the manufacturer's instructions for installation and further information.</p>					
				3500K									
				4000K									
				5000K									
ELECTRICAL			PHOTOMETRIC					COMATIBLE DIMMERS					
POWER	INUT VOLTS	CURRENT	LUMENS	COLOR	LUMEN EFFICACY	CRI	FLOOD°	LUTRON DIVA-DVTV, NOVA-NTSTV-TV					
20W	100-277V	<2mA	2600	3000K	130	80	120°	<p>*The presence of a dimmer on this chart is not a guarantee of the compatibility of the module in any particular installation. Absence of a dimmer on this chart does not imply incompatibility. Please reference the manufacturer's instructions for installation and further information.</p>					
				3500K									
				4000K									
				5000K									

### DIMENSIONS



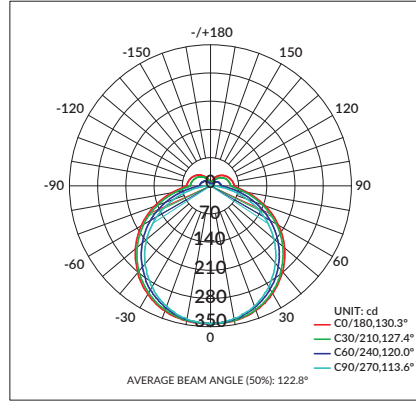
## 2FT PERFORMANCE

### PHOTOMETRY

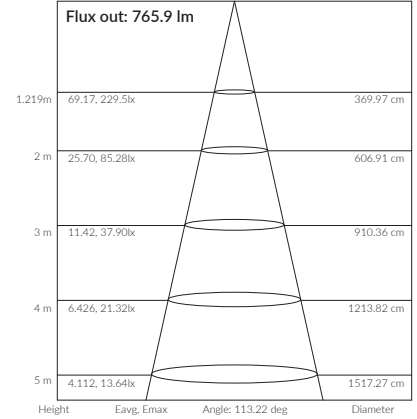


**2FT**

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE ILLUMINANCE CURVE



NOTE: THE CURVES INDICATE THE ILLUMINATED AREA AND THE AVERAGE ILLUMINATION WHEN THE LUMINAIRE IS AT DIFFERENT DISTANCE

ZONAL FLUX DIAGRAM

Y	C0	C45	C90	C135	C180	C225	C270	C315
10	340.3	337.3	334.0	337.2	341.2	338.4	336.3	338.8
20	329.2	324.4	317.8	325.0	330.3	326.2	318.1	325.3
30	308.7	301.0	290.3	302.5	311.7	303.5	290.0	302.8
40	278.2	268.4	250.9	269.5	281.1	270.2	252.8	269.6
50	240.1	227.6	205.6	229.0	243.5	230.2	206.5	229.6
60	194.5	180.3	153.2	182.8	198.7	182.8	154.6	182.4
70	143.7	127.4	96.49	130.0	148.6	129.9	96.09	128.9
80	91.91	73.78	38.68	76.83	96.57	76.27	38.26	74.64
90	59.16	40.08	3.115	41.60	59.70	40.68	3.064	40.96

DEG LUMINOUS INTENSITY: cd

ZONAL LUMEN SUMMARY

T	φ zone	φ total	%lum, lamp
0-10	32.45	32.45	2.5, 2.47
10-20	93.95	126.4	9.74, 9.61
20-30	144.8	271.2	20.9, 20.6
30-40	178.8	450.0	34.7, 34.2
40-50	191.6	641.7	49.4, 48.8
50-60	182.3	823.9	63.5, 62.6
60-70	151.4	975.3	75.1, 74.1
70-80	103.9	1079	83.1, 82
80-90	55.27	1134	87.4, 86.2

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																0
pfc																0
RCR	RCR: Room Cavity Ratio (CU)															
	0.0	115	115	115	110	110	110	103	103	103	96	96	96	89	89	89
1.0	98	93	89	94	90	86	88	84	81	82	79	77	76	74	72	69
2.0	84	77	71	81	75	69	76	70	66	71	66	62	66	62	59	56
3.0	74	65	58	71	63	57	66	60	54	62	56	52	58	53	50	47
4.0	65	56	49	63	54	48	59	52	46	55	49	44	51	46	42	39
5.0	58	49	42	56	47	41	52	45	39	49	43	38	46	41	36	34
6.0	52	43	36	50	42	36	47	40	34	44	38	33	41	36	32	29
7.0	47	38	32	45	37	31	43	35	30	40	34	29	38	32	28	26
8.0	42	34	28	41	33	28	39	32	27	37	30	26	35	29	25	23
9.0	39	31	25	38	30	25	36	29	24	34	28	23	32	26	22	21
10.0	36	28	23	35	27	22	33	26	22	31	25	21	30	24	20	19

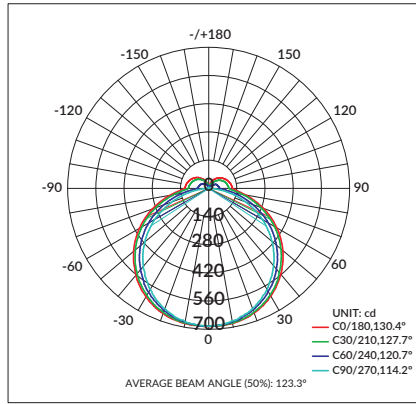
## 4FT PERFORMANCE

### PHOTOMETRY

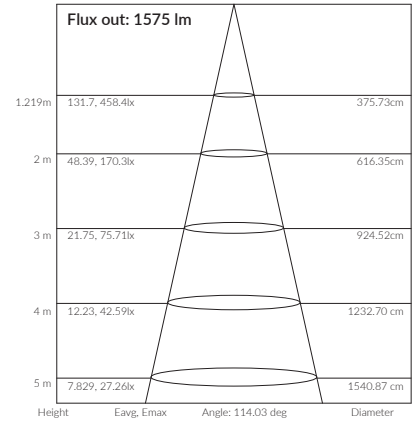


**4FT**

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE ILLUMINANCE CURVE



ZONAL FLUX DIAGRAM

Y	C0	C45	C90	C135	C180	C225	C270	C315
10	676.7	674.4	669.6	673.6	676.5	670.0	665.4	671.4
20	657.0	651.7	638.6	649.3	656.6	642.9	629.0	645.1
30	616.3	607.6	584.6	605.3	616.7	596.0	571.5	599.3
40	556.9	545.3	512.3	542.3	558.1	531.6	496.5	535.3
50	482.3	465.5	420.7	461.7	482.6	451.1	405.7	455.5
60	391.8	370.4	315.2	366.0	393.6	356.4	301.2	362.0
70	290.4	263.6	197.4	259.2	292.0	250.4	185.5	256.4
80	186.4	153.7	76.81	150.7	187.9	145.4	71.93	150.4
90	115.3	80.55	4.205	83.72	120.4	80.27	3.233	78.81

DEG LUMINOUS INTENSITY: cd

ZONAL LUMEN SUMMARY

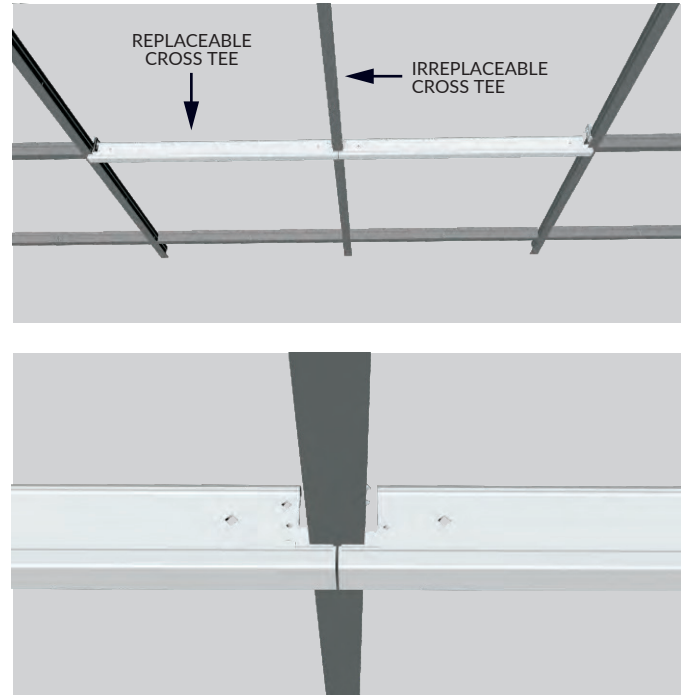
T	φ zone	φ total	%lum, lamp
0-10	64.54	64.54	2.5, 2.64
10-20	186.9	251.5	9.73, 10.3
20-30	288.5	539.9	20.9, 22.1
30-40	356.6	896.5	34.7, 36.6
40-50	383.0	1280	49.5, 52.3
50-60	364.5	1644	63.6, 67.2
60-70	302.4	1946	75.3, 79.5
70-80	206.8	2153	83.3, 88
80-90	109.3	2262	87.6, 92.5

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%	0
pw	20%			20%			20%			20%			20%			0
	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	0
RCR	RCR: Room Cavity Ratio (CU)															
0.0	123	123	123	118	118	118	110	110	110	103	103	103	96	96	96	92
1.0	105	00	95	101	96	92	94	90	87	88	85	82	82	79	77	74
2.0	90	83	76	87	80	74	81	75	70	76	71	67	71	67	64	60
3.0	79	70	62	76	68	61	71	64	58	66	61	56	62	57	53	50
4.0	69	60	52	67	58	51	63	55	49	59	52	47	55	50	45	42
5.0	62	52	45	60	51	44	56	48	42	52	46	41	49	43	39	36
6.0	55	46	39	54	45	38	50	42	37	47	40	35	44	39	34	31
7.0	50	41	34	48	40	33	46	38	32	43	36	31	40	35	30	28
8.0	45	36	30	44	36	30	42	34	29	39	33	28	37	31	27	25
9.0	42	33	27	40	32	26	38	31	26	36	30	25	34	28	24	22
10.0	0.38	0.30	24	37	29	24	35	28	23	33	27	22	32	26	22	20

## APPLICATION



THE GRID SMART IS A LIGHTING SOLUTION THAT CAN REPLACE REMOVABLE CROSS TEES OF THE GRID CEILING, ALLOWING IT TO BE FULLY AND SEAMLESSLY INTEGRATED TO THE SUSPENDED CEILING.

## REMOTE DRIVER



- REMOTE DRIVER WITH POE CABLE (POWER OVER ETHERNET)
- ONE DRIVER CAN SUPPORT 3 UNITS



## INSTALLATION

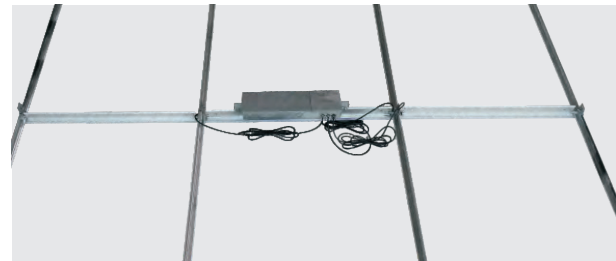
1. TURN OFF THE POWER AND INSTALL THE LINEAR LIGHT TO THE CEILING GRID AND TIGHTEN THE TWO END NUTS.



2. SECURE THE JUNCTION BOX TO THE LINEAR LIGHT AND TIGHTEN THE TWO END NUTS.



3. CONNECT THE LINEAR LIGHT UNIT TO THE OUTPUT CONNECTOR OF JUNCTION BOX. ONE DRIVER CAN SUPPORT A MAXIMUM OF THREE UNITS.



4. OPEN THE JUNCTION BOX AND WIRE

