



Metalux's GR LED Lensed Troffers offers the ideal balance of LED performance and value. This new series delivers top-tier LED performance, maximizing your energy savings and reducing maintenance cost, while offering the simplicity of our most popular lensed troffer family. With features like spring-loaded hinged door assembly for easy access, GR LED provides the perfect fit for virtually all recessed applications.

Performance

- Available in 2' x 4' (4800, 6400), 2' x 2' (3200, 4300) and 1' x 4' (3200, 4300) sizes
- Two lumen packages per configuration
- Correlated Color Temperatures of 3500K and 4000K
- Class 2, 24V DC constant driver with standard 0-10V dimming
- Typical CRI 85
- Lumen maintenance of L70 at 50,000 hours
- Five-year warranty

Compliances

- LED modules comply with IESNA LM-79 and LM-80 standards
- Listed for IC (Insulated Ceiling)
- cULus listed 1598 for damp locations
- RoHS compliant

Product Controls

GR LED Series is control-friendly, offering compatibility with occupancy and daylight sensors, dimmers and full-scale lighting control systems. Using products from Cooper Controls and others will provide optimal energy savings and extend service life while providing light level flexibility.

- **0-10V Dimmers**
Works with common 0-10V fluorescent wallbox dimmers
- **Lighting Control Panels**
Integrates with lighting control panels' 0-10V (4-wire) modules
- **120/277V Sensors**
Compatible with typical commercial occupancy sensors



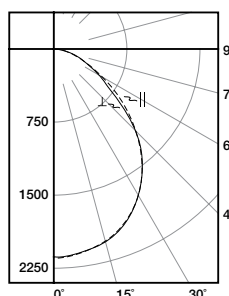
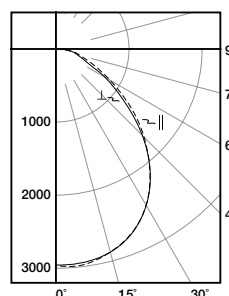
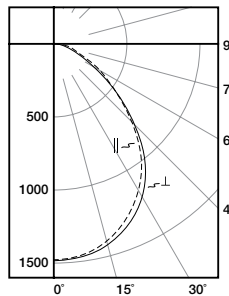
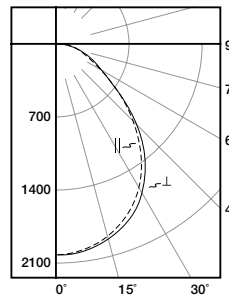
Ordering Information

Sample Number: 2GR-LD1-32-A-UNV-L835-CD1-U

Rating	Width	Trim Type	Series	Door Frame	LED Type
[Blank]=Standard ATW-SW4=Chicago Rated	[Blank]=1' Width 2=2' Width	G=Grid/Lay-In (Standard) ¹ G=Concealed T G=Slot Grid	R=General Purpose Troffer	Standard=Flat White Steel Door (Leave Blank) FA=Flat White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum FAN=Flush Natural Anodized Extruded Aluminum RAN=Regressed Natural Anodized Extruded Aluminum FAB=Flush Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum	LD1=LED 1.0
LED Lumens Output ⁶	Shielding	Voltage ²	Options		Driver Type
32=3200 ⁷ 43=4300 ⁷ 48=4800 ⁸ 64=6400 ⁸	A=A12 .095 A125MIN=A12 .125 MIN A19/156=A19 .156 F=A12 .095 Frost F125=A12 .125 Frost	UNV=Universal Voltage 120-277 ³	GL=Single Element Fuse GM=Double Element Fuse Flex=Flex Installed (Reference Flex Ordering Information) EL=Emergency Installed ^{4,5}		CCT L835=3500K L840=4000K
Number of Drivers	Options	Packaging ⁷		Accessories (Order Separately)	
1=1 Driver	PAF=Painted After Fabrication G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims	PALC=Palletized Fixtures in Carton U=Unit Pack		EQ-CLIP-U=T-BAR Safety Earthquake Clips ¹ DF-22-W=2' x 2' Drywall Frame Kit DF-24-W=2' x 4' Drywall Frame Kit	

NOTES: 1. An EQ Grid Clip is recommended for all 9/16" ceiling systems. 2. Products also available in non-US voltage and frequencies for international markets. 3. Not available when specifying emergencies, voltage must be specific. 4. EL options are non-integral. 5. Call factory. 6. Nominal lumen output. 7. 2' x 2' and 1' x 4' only. 8. 2' x 4' only. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

Photometrics

2GR-LD1-48-A-UNV-L835-CD1-U		2GR-LD1-64-A-UNV-L835-CD1-U																																																																																																																																																																																																																																																																																																																																							
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20%						80%		50%		30%		rw	70	50	30	10	50	30	10	50	30	10	RCR	0	119	119	119	111	111	111	106	106	106	1	110	106	102	98	99	96	94	95	93	91	2	101	94	87	82	88	84	79	85	81	78	3	93	83	76	70	79	73	68	76	71	67	4	86	75	67	61	71	65	59	69	63	59	5	79	68	59	53	64	58	52	63	56	52	6	74	61	53	47	59	52	46	57	51	46	7	69	56	48	42	54	47	42	52	46	41	8	64	51	43	38	49	43	38	48	42	37	9	60	47	40	34	46	39	34	45	38	34	10	57	44	36	31	42	36	31	42	35	31	Zone	Lumens	%Fixture	0-30	1115	34.6	0-40	1170	55.0	0-60	2772	86.1	0-90	3221	100.0	0-180	3221	100.0	 <p>Dimming Driver Linear LED 3500K Spacing criterion: (H) 1.2 x mounting height, (L) 1.2 x mounting height Efficiency = 100% Lumens = 4351 Input Watts = 48.9W Efficacy = 89 LPW Test: 2GR-LD1-43-A-UNV-L835-CD1-U.IES</p>	<p>Coefficients of Utilization</p> <table border="1"> <thead> <tr> <th rowspan="2">rc</th> <th colspan="6">Effective floor cavity reflectance 20%</th> </tr> <tr> <th colspan="2">80%</th> <th colspan="2">50%</th> <th colspan="2">30%</th> </tr> <tr> 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Metalux's GR LED Lensed Troffers offers the ideal balance of LED performance and value. This new series delivers top-tier LED performance, maximizing your energy savings and reducing maintenance cost, while offering the simplicity of our most popular lensed troffer family. With features like spring-loaded hinged door assembly for easy access, GR LED provides the perfect fit for virtually all recessed applications.

Performance

- Available in 2' x 4' (4800, 6400), 2' x 2' (3200, 4300) and 1' x 4' (3200, 4300) sizes
- Two lumen packages per configuration
- Correlated Color Temperatures of 3500K and 4000K
- Class 2, 24V DC constant driver with standard 0-10V dimming
- Typical CRI 85
- Lumen maintenance of L70 at 50,000 hours
- Five-year warranty

Compliances

- LED modules comply with IESNA LM-79 and LM-80 standards
- Listed for IC (Insulated Ceiling)
- cULus listed 1598 for damp locations
- RoHS compliant

Product Controls

GR LED Series is control-friendly, offering compatibility with occupancy and daylight sensors, dimmers and full-scale lighting control systems. Using products from Cooper Controls and others will provide optimal energy savings and extend service life while providing light level flexibility.

- **0-10V Dimmers**

Works with common 0-10V fluorescent wallbox dimmers

- **Lighting Control Panels**

Integrates with lighting control panels' 0-10V (4-wire) modules

- **120/277V Sensors**

Compatible with typical commercial occupancy sensors



Ordering Information

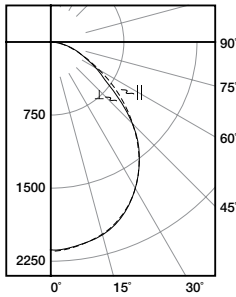
Sample Number: 2GR-LD1-32-A-UNV-L835-CD1-U

Rating	Width	Trim Type	Series	Door Frame	LED Type
[Blank]=Standard ATW-SW4=Chicago Rated	[Blank]=1' Width 2=2' Width	G=Grid/Lay-In (Standard) ¹ G=Concealed T G=Slot Grid	R=General Purpose Troffer	Standard=Flat White Steel Door (Leave Blank) FA=Flat White Extruded Aluminum c/w Spring Latch RA=Regressed White Extruded Aluminum FAN=Flush Natural Anodized Extruded Aluminum RAN=Regressed Natural Anodized Extruded Aluminum FAB=Flush Black Extruded Aluminum RAB=Regressed Black Extruded Aluminum	LD1=LED 1.0
LED Lumens Output ⁶	Shielding	Voltage ²	Options	CCT	Driver Type
32=3200 ⁷ 43=4300 ⁷ 48=4800 ⁸ 64=6400 ⁸	A=A12 .095 A125MIN=A12 .125 MIN A19/156=A19 .156 F=A12 .095 Frost F125=A12 .125 Frost	UNV=Universal Voltage 120-277 ³	GL=Single Element Fuse GM=Double Element Fuse Flex=Flex Installed (Reference Flex Ordering Information) EL=Emergency Installed ^{4,5}	CCT L835=3500K L840=4000K	CD=0-10V Dimming Driver
Number of Drivers	Options	Packaging ⁷	Accessories (Order Separately)		
1=1 Driver	PAF=Painted After Fabrication G1=Gasket, Door Frame and Housing G2=G1 plus Gasket between Lens and Door G3=G1 and G2 plus Gasketing on Mounting Surface of Fixture Trims	PALC=Palletized Fixtures in Carton U=Unit Pack	EQ-CLIP-U=T-BAR Safety Earthquake Clips ¹ DF-22-W=2' x 2' Drywall Frame Kit DF-24-W=2' x 4' Drywall Frame Kit		

NOTES: 1. An EQ Grid Clip is recommended for all 9/16" ceiling systems. 2. Products also available in non-US voltage and frequencies for international markets. 3. Not available when specifying emergencies, voltage must be specific. 4. EL options are non-integral. 5. Call factory. 6. Nominal lumen output. 7. 2' x 2' and 1' x 4' only. 8. 2' x 4' only. Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

Photometrics

2GR-LD1-48-A-UNV-L835-CD1-U



Coefficients of Utilization

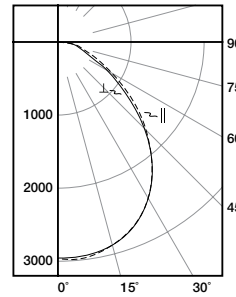
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	80%		50%		30%					
rw	70	50	30	10	50	30	10			
RCR										
0	119	119	119	119	111	111	111	106	106	106
1	110	105	101	98	99	96	93	95	93	91
2	101	93	87	82	88	83	79	85	81	77
3	93	83	76	70	79	73	68	76	71	67
4	86	74	66	60	71	64	59	68	63	58
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8	64	51	43	37	49	42	37	48	41	37
9	60	47	39	34	45	38	34	44	38	33
10	56	43	36	31	42	35	31	41	35	31

Dimming Driver
Linear LED 3500K
Spacing criterion: (H) 1.2 x mounting height, (L) 1.2 x mounting height
Efficiency = 100%
Lumens = 4833
Input Watts = 48.6W
Efficacy = 99.4 LPW
Test: 2GR-LD1-48-A-UNV-L835-CD1-U.IES

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1629	33.7
0-40	2607	53.9
0-60	4147	85.8
0-90	4833	100.0
0-180	4833	100.0

2GR-LD1-64-A-UNV-L835-CD1-U



Coefficients of Utilization

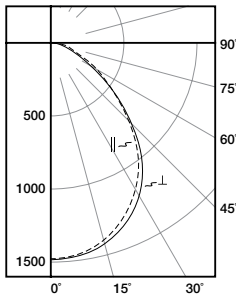
rc	Effective floor cavity reflectance 20%									
	80%		50%		30%					
rw	70	50	30	10	50	30	10			
RCR										
0	119	119	119	119	111	111	111	106	106	106
1	110	105	101	98	99	96	93	95	93	90
2	101	93	87	82	88	83	79	85	81	77
3	93	83	76	70	79	73	68	76	71	67
4	86	74	66	60	71	64	59	68	63	58
5	79	67	59	53	64	57	52	62	56	51
6	73	61	52	46	58	51	46	57	50	45
7	68	56	47	41	53	46	41	52	45	41
8	64	51	43	37	49	42	37	48	41	37
9	60	47	39	34	45	38	34	44	38	33
10	56	43	36	31	42	35	31	41	35	30

Dimming Driver
Linear LED 3500K
Spacing criterion: (H) 1.2 x mounting height, (L) 1.2 x mounting height
Efficiency = 100%
Lumens = 6808
Input Watts = 70.6W
Efficacy = 96.4 LPW
Test: 2GR-LD1-64-A-UNV-L835-CD1-U.IES

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	2289	33.6
0-40	3666	53.8
0-60	5839	85.8
0-90	6808	100.0
0-180	6808	100.0

2GR-LD1-32-A-UNV-L835-CD1-U



Coefficients of Utilization

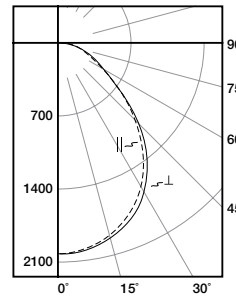
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rw	70	50	30	10	50	30	10			
RCR										
0	119	119	119	119	111	111	111	106	106	106
1	110	106	102	98	99	96	94	95	93	91
2	101	94	87	82	88	84	79	85	81	78
3	93	83	76	70	79	73	68	76	71	67
4	86	75	67	61	71	65	59	69	63	59
5	79	68	59	53	64	58	52	63	56	52
6	74	61	53	47	59	52	46	57	51	46
7	69	56	48	42	54	47	42	52	46	41
8	64	51	43	38	49	43	38	48	42	37
9	60	47	40	34	46	39	34	45	38	34
10	57	44	36	31	42	36	31	42	35	31

Dimming Driver
Linear LED 3500K
Spacing criterion: (H) 1.2 x mounting height, (L) 1.2 x mounting height
Efficiency = 100%
Lumens = 3221
Input Watts = 36.2W
Efficacy = 89 LPW
Test: 2GR-LD1-32-A-UNV-L835-CD1-U.IES

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1115	34.6
0-40	1170	55.0
0-60	2772	86.1
0-90	3221	100.0
0-180	3221	100.0

2GR-LD1-43-A-UNV-L835-CD1-U



Coefficients of Utilization

rc	Effective floor cavity reflectance 20%									
	80%		50%		30%					
rw	70	50	30	10	50	30	10			
RCR										
0	119	119	119	119	111	111	111	106	106	106
1	110	106	102	98	99	96	94	95	93	91
2	101	94	87	82	88	83	79	85	81	78
3	93	83	76	70	79	73	68	76	71	67
4	86	75	67	61	71	65	59	69	63	59
5	79	68	59	53	64	58	52	63	56	52
6	74	61	53	47	59	52	46	57	51	46
7	69	56	48	42	54	47	42	52	46	41
8	64	51	43	38	49	43	38	48	42	37
9	60	47	40	34	46	39	34	45	38	34
10	57	44	36	31	42	36	31	42	35	31

Dimming Driver
Linear LED 3500K
Spacing criterion: (H) 1.2 x mounting height, (L) 1.2 x mounting height
Efficiency = 100%
Lumens = 4351
Input Watts = 48.9W
Efficacy = 89 LPW
Test: 2GR-LD1-43-A-UNV-L835-CD1-U.IES

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1505	34.6
0-40	2389	54.9
0-60	3744	86.1
0-90	4351	100.0
0-180	4351	100.0