

DESCRIPTION

GC LED is a premium grade specification lensed troffer series. This innovative, high quality luminaire is dedicated to the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GC LED is compatible with all of today's popular ceiling systems and is available with a number of options and accessories for application versatility.

The GC LED series features efficiency, quality and performance. The series is an excellent choice for commercial office spaces, schools, hospitals or retail merchandising areas.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length die-formed stiffeners and unibody endplate for added strength. Side flanges are hemmed. Innovative design provides superior lens brightness uniformity and visual comfort. Unibody endplates are securely attached with interlocking tabs and screws. Four auxiliary fixture end suspension points provided. KOs for continuous row wiring. Endplates have integral Grid-lock feature for safety and convenience.

Controls

The GC LED is equipped standard with a 0-10V continuous dimming driver that works with any standard 0-10V control/dimmer. Combine with energy-saving products like occupancy sensors, daylighting controls, and lighting relay panels from Cooper Controls (www.coopercontrol.com) to maximize energy savings.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000k, 3500k or 4000k with a CRI ≥ 85. Projected life is 50,000 hours at 70% lumen output. cULus listed. Electronic drivers are available for 120-277V applications. A 0-10V dimming driver is standard.

Finish

Multistage, iron phosphate pretreatment ensures maximum bonding and rust inhibition. Housing and driver cover finished with new 90% reflective white enamel for superior performance. "PAF" Painted After Fabrication option also available.

Hinging/Latching

Positive spring loaded steel latches with baked white enamel finish. Safety-lock T-hinges allow hinging and latching either side.

Frame/Shielding

Die formed, heavy gauge, flat steel door with reinforced mitered corners and baked white enamel finish. Flat and regressed aluminum doors also available. Positive light seals. Light stabilized, acrylic prismatic lens. Standard #12 pattern.

Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments, RoHS compliant, and LED modules comply with IESNA LM-79 and LM-80 standards. DesignLights™ Consortium Qualified (high lumen version only). Refer to www.designlights.org Qualified Products List under Family Models for details.



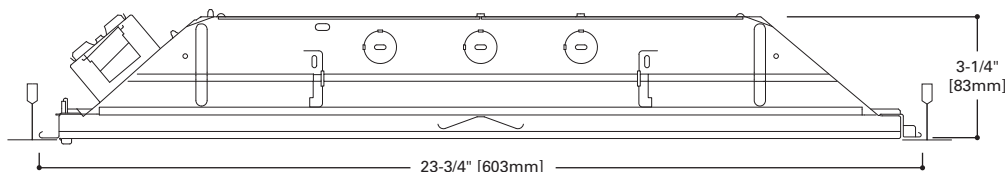
2GC LED

2' X 2' TROFFER LED LAMP

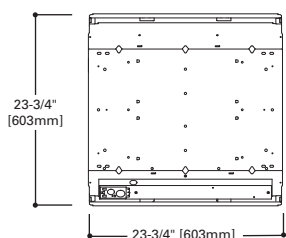
Specification LED Troffer

For Use in Insulated Ceilings

DESIGNLIGHTS CONSORTIUM 



MOUNTING DATA



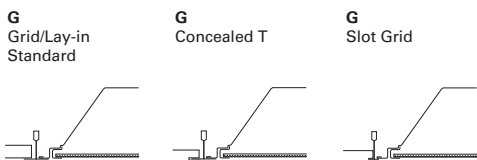
DOOR FRAMES



ENERGY DATA

Input Watts:
26=28W
34=37W

CEILING COMPATIBILITY



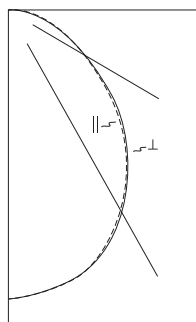
Ceiling Type	Trim Type
Exposed Grid	G
Concealed T	G
Slot Grid	G

(Verify compatibility/ consult factory.)

LINEAR DISCONNECT

Safe and convenient means of disconnecting power.

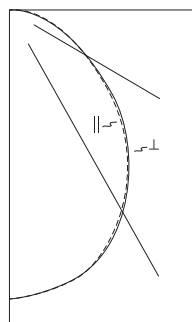
PHOTOMETRICS



2GC-LD1-26-A-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.2 x
 mounting height
 Efficiency: 100%
 Lumens: 2659
 Input Watts: 28.2W
 Efficacy: 94 LPW
 Test Report:
 2GC-LD1-26-A-UNV-
 L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1128	1128	1128
5	1122	1121	1121
10	1103	1103	1102
15	1069	1071	1070
20	1021	1023	1024
25	958	962	962
30	881	888	889
35	796	804	805
40	702	712	714
45	603	614	617
50	503	514	516
55	408	417	421
60	325	329	333
65	254	253	256
70	199	191	193
75	152	140	140
80	109	97	95
85	61	54	52
90	0	0	0



2GC-LD1-34-A-UNV-L835-CD1-U
 Dimming Driver
 Linear LED 3500K
 Spacing criterion:
 (II) 1.2 x mounting
 height, (L) 1.3 x
 mounting height
 Efficiency: 100%
 Lumens: 3477
 Input Watts: 37.2W
 Efficacy: 93 LPW
 Test Report:
 2GC-LD1-34-A-UNV-
 L835-CD1-U.IES

Candlepower

Angle	Along II	45°	Across ⊥
0	1475	1475	1475
5	1465	1465	1465
10	1441	1441	1442
15	1398	1399	1400
20	1334	1338	1339
25	1250	1256	1257
30	1152	1161	1162
35	1041	1051	1053
40	918	930	933
45	788	802	805
50	658	671	675
55	534	546	550
60	425	431	435
65	335	331	336
70	260	248	252
75	199	183	183
80	142	127	124
85	80	71	68
90	0	0	0

Coefficients of Utilization

rc	Effective floor cavity reflectance 20%																	
	80%			70%			50%			30%			10%			0%		
rw	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

Coefficients of Utilization

rc	Effective floor cavity reflectance 20%																	
	80%			70%			50%			30%			10%			0%		
rw	70	50	30	70	50	30	70	50	30	70	50	30	70	50	30	0		
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	74	69	65	72	67	64	61
4	84	73	64	58	82	72	64	58	69	62	57	67	61	56	65	60	55	53
5	78	66	57	51	76	64	56	50	62	55	50	60	54	49	59	53	49	47
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41
7	67	54	46	40	65	53	45	40	52	45	39	50	44	39	49	43	39	37
8	63	50	41	36	61	49	41	36	48	40	35	46	40	35	45	39	35	33
9	59	46	38	32	57	45	37	32	44	37	32	43	36	32	42	36	32	30
10	55	42	35	29	54	42	34	29	41	34	29	40	34	29	39	33	29	27

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	850	31.9
0-40	1350	50.8
0-60	2195	82.5
0-90	2659	100.0
0-180	2659	100.0

Luminaire Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2294	2336	2347
55	1913	1956	1974
65	1617	1610	1629
75	1580	1455	1455
85	1883	1667	1605

Zonal Lumen Summary

Zone	Lumens	%Fixture
0-30	1110	31.9
0-40	1765	50.8
0-60	2869	82.5
0-90	3477	100.0
0-180	3477	100.0

Luminaire Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	2998	3051	3062
55	2504	2561	2579
65	2132	2107	2139
75	2068	1902	1902
85	2469	2191	2099

ORDERING INFORMATION

SAMPLE NUMBER: 2GC-LD1-34-A-UNV-L835-CD1-U

<p>Rating Blank Standard ATW-SW4 Chicago Rated</p>	<p>Lamp Type LD1=LED 1.0</p> <p>LED Lumens Output 26=2600 34=3400</p>	<p>Voltage ⁽²⁾ UNV=Universal Voltage 120-277⁽³⁾</p>	<p>Driver Type CD=0-10V Dimming Driver</p>	<p>Options 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</p>	<p>Packaging U=Unit Pack PALC=Palletized Fixtures In Carton</p>
<p>Width 2=2' Width</p>	<p>Shielding A=#12 Acrylic Pattern (0.095" Thickness) A125=#12 Acrylic Pattern (0.125" Thickness)</p>	<p>Options GL=Single Element Fuse GM=Double Element Fuse Flex=Flex Installed EL=Emergency Installed, 700^{(4), (5)} EL14=Emergency Installed, 1400^{(4), (5)}</p>	<p>Number of Drivers 1=1 Driver</p>	<p>ACCESSORIES EQ-CLIP-U=T-BAR Safety Earthquake Clips⁽¹⁾ DF-22-W=2' x 2' Drywall Frame Kit</p>	
<p>Trim Type G=Grid/Lay-in (Standard)⁽¹⁾ G=Concealed T G=Slot Grid</p>	<p>Lamps Installed L830=3000K L835=3500K L840=4000K</p>	<p>Door Frame Standard=Flat White Steel Door (Leave Blank) FA=Flush 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</p>			
<p>Series ⁽⁶⁾ C=Specification Troffer</p>					

NOTES: ⁽¹⁾An EQ Grid Clip is recommended for all 9/16" ceiling systems. ⁽²⁾Products also available in non-US voltages and frequencies for international markets. ⁽³⁾Not available when specifying emergencies, voltage must be specific. ⁽⁴⁾EL options are non-integral. ⁽⁵⁾700 option: provides 1056 lumens, 1400 option: call factory. ⁽⁶⁾DesignLights™ Consortium Qualified (high lumen only). Refer to www.designlights.org Qualified Products List under Family Models for details.

Specifications & dimensions subject to change without notice. Consult your Cooper Lighting Representative for availability and ordering information.

SHIPPING INFORMATION

Catalog No.	Wt.
2GC-LD1-26	10 lbs.
2GC-LD1-34	10 lbs.