Metalux

DESCRIPTION

GRLED is a recessed lensed troffer series which offers a high quality luminaire designed with the latest solid state lighting and electronic driver technology for optimal performance and energy efficiency. The GRLED is compatible with all of today's popular ceiling systems and is available with a number of shielding options and accessories for application versatility.

The GRLED series features efficiency, quality and performance. The series is an excellent choice for use in a variety of indoor spaces such as offices, schools, residential, hospitals or retail merchandising areas.

Туре
Date

SPECIFICATION FEATURES

Construction

Rigid housing is die formed of code gauge prime cold rolled steel and features full length dieformed stiffeners and unibody endplate for added strength. Side flanges are hemmed for safe handling. 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. Endplates have integral Grid-lock feature for safety and convenience. Drivers and internal components are accessible from below the ceiling and LED modules include plug-in low voltage connectors.

Controls

Metalux LED luminaires come standard with 0-10V dimming driver (10% standard, 1% optional).

Options compatible with Eaton's Connected Lighting Systems:

- WaveLinx sensor
- LumaWatt Pro sensor
- SVPD sensor
- DLVP sensor and driver
- Fifth Light DALI driver

Other options include stepdimming and 3rd party drivers. Refer to the Connected Lighting options page and ordering information for more details.

Electrical

Long-Life LED system coupled with electrical driver to deliver optimal performance. LED's available in 3000K, 3500K, 4000K or 5000K with a minimum of 80 CRI. TM21 rating up to L89 >60,000 hours. Electronic drivers are cULus recognized and available for 120-277V and 347V applications. Standard dimming is 0-10V to 10% with 1%, step and Fifth Light DALI dimming options available.

Emergency Battery Pack Option

Optional 120V-277V integral emergency battery pack is available in 7-watts or 14-watts to meet critical life-safety lighting requirements. The 90-minute batteries provide constant power to the LED system, ensuring code-compliance. A test switch/ indicator button can be tested safely from the ground using a laser pointer, while the patented EZ Key prevents accidental discharge of the battery during construction.

Emergency/generator transfer options available - see ordering information for details.

Frame/Optical Shielding

Die formed, flat steel door with frosted #12 pattern acrylic prismatic lens offering the balance of rigidity and light stability. Primary stocking skus come standard with robust .095 lens with other options available for maximum versatility.

Compliance

Modules are UL recognized components and indoor luminaires are cULus listed for 25°C ambient environments. Fixtures are suitable for direct insulation contact and are damp location listed. RoHS compliant. LED components comply with IESNA LM-79 and LM-80 standards. DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www. designlights.org for details.



24GR LED

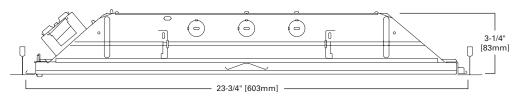
2' X 4' LED TROFFER

General Recessed LED Troffer For Use in Insulated Ceilinas

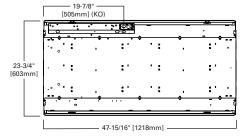








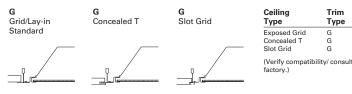
MOUNTING DATA



DOOR FRAMES

GC GCAFA GCRA Flat, White Flat, Extruded Deep, Regressed, White Aluminum Extruded Natura Aluminum

CEILING COMPATIBILITY

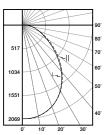


ing e	Trim Type	LINEAR DISCONNECT
sed Grid	G	LINEAR DISCONNECT
ealed T	G	Safe and convenient means of
Grid	G	Sale and convenient means of

Safe and convenient means of disconnecting power







24GR-LD5-48-F1-UNV-L835-CD1-U **Electronic Driver** Linear LED 3500K Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.18 x mounting height Lumens: 4821 Input Watts: 37W Efficacy: 128.6 lm/W Test Report: 24GR-LD5-48-F1-UNV-L835-CD1-U.IES

Angle	Along II	45°	Across 1
0	2064	2064	2064
5	2061	2052	2057
10	2028	2019	2026
15	1972	1963	1968
20	1890	1879	1887
25	1779	1773	1774
30	1648	1638	1635
35	1493	1481	1467
40	1316	1299	1286
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55	767	740	717
60	606	574	563
65	468	437	440
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75	256	243	265
80	172	168	190
85	95	90	105
90	0	0	0

Coefficients of Utilization

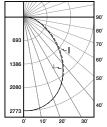
	Effe	ectiv	e floo	or cav	ity ref	lecta	nce	20	%									
rc		8	0%			7	0%			509	%		30%	Ď		10%	, D	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
- 5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

7 on al	Lumen	Summary

Zone	Lumens	% Fixture	
0-30	1564	32.4	
0-40	2486	51.6	
0-60	4001	83.1	
0-90	4821	100.0	
0-180	4821	100.0	

Luminance Data

Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
2444	2401	2355
2048	1977	1915
1697	1584	1595
1517	1439	1571
1671	1580	1842
	0-Deg cd/sm 2444 2048 1697 1517	0-Deg cd/sm 45-Deg cd/sm cd/sm 2444 2048 1977 1697 1584 1517 1439



24GR-LD5-64-F1-UNV-L835-CD1-U Electronic Driver Linear LED 3500K Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.18 x mounting height Lumens: 6462 Input Watts: 48W Efficacy: 134.2 lm/W Test Report: 24GR-LD5-64-F1-UNV-L835-CD1-U.IES

Angle	Along II	45°	Across 1
0	2767	2767	2767
5	2763	2750	2758
10	2718	2706	2716
15	2643	2631	2637
20	2534	2519	2529
25	2384	2376	2378
30	2209	2196	2192
35	2001	1985	1967
40	1764	1741	1724
45	1512	1486	1458
50	1267	1234	1198
55	1028	992	961
60	812	769	755
65	627	586	590
70	467	440	461
75	344	326	356
80	231	225	254
85	128	121	141
90	0	0	0

Coefficients of Utilization

	Effe	ectiv	e floo	or cav	ity ref	ecta	nce	209	%									
rc		8	0%			7	0%			50%	6		30%	5		10%	,	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	98	90	85	80	87	82	78	84	80	76	81	77	74	72
3	92	82	74	68	89	80	73	67	77	71	66	75	69	65	72	68	64	62
4	85	73	65	58	82	72	64	58	69	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	2097	32.4
0-40	3333	51.6
0-60	5370	83.1
0-90	6462	100.0
0-180	6462	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	3276	3218	3157
55	2746	2650	2567
65	2275	2123	2138
75	2034	1928	2105
85	2241	2119	2469

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Delivered Lumens	Watts	Efficacy (LPW)
МТО	24GR-LD5-30-F1-UNV-L835-CD1-U	3074	23.4	131
MTO	24GR-LD5-34-F1-UNV-L835-CD1-U	3459	26.7	129
Stock	24GR-LD5-38-F1-UNV-L835-CD1-U	3880	30.6	127
МТО	24GR-LD5-42-F1-UNV-L835-CD1-U	4294	34.6	124
Stock	24GR-LD5-48-F1-UNV-L835-CD1-U	4821	37.4	129
MTO	24GR-LD5-56-F1-UNV-L835-CD1-U	5618	45.1	124
Stock	24GR-LD5-64-F1-UNV-L835-CD1-U	6462	48.1	134
МТО	24GR-LD5-72-F1-UNV-L835-CD1-U	7257	56.0	129
МТО	24GR-LD5-85-F1-UNV-L835-CD1-U	8567	70.3	122
MTO	24GR-LD5-90-F1-UNV-L835-CD1-U	9092	69.1	132
MTO	24GR-LD5-100-F1-UNV-L835-CD2-U	10030	71.7	140
МТО	24GR-LD5-120-F1-UNV-L835-CD2-U	12260	90.1	136
MTO	24GR-LD5-130-F1-UNV-L835-CD2-U	13290	90.2	134
МТО	24GR-LD5-150-F1-UNV-L835-CD2-U	15340	120.3	128
МТО	24GR-LD5-180-F1-UNV-L835-CD2-U	18050	144.2	125
*C+ : 2E00	IK and 4000K others are MTO			

Stocked in 3500K and 4000K others are MTO.

LENS TABLE

Approximate Lu	ımen Multiplier
F1	1.0
F125	1.0
A125	1.01
А	1.01
A19/156	.975
FGW080	.85

CCT TABLE

• •	olor Temperature iplier
5000K	1.016
4000K	1.016
3500K	1.0
3000K	.982
2700K	.930



Number of Drivers

PAF=Painted After Fabrication

G1=Gasket, Door Frame and

G2=G1 plus Gasket between

G3=G1 and G2 plus Gasketing

on Mounting Surface of

1=1 Driver

2=2 Drivers

Lens and Door

Fixture Trims (5), (6)

XFMR=Transformer

Options

(10%-100% Dimming) (9)

SR=Sensor-ready Dimming Driver

5LTHD=Fifth Light Dimming Driver

(0%-100% Dimming) (C)

(10%-100% Dimming) (8), (E)

(1%-100% Dimming) (E)

with Soft-on Fade to Black dimming (F)

(50% or 100% Dimming) ⁽⁷⁾ **LH**=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver

L5=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver (F)

LU=Lutron HiLume (L3D series) 1%-100% EcoSystem/3-wire Driver (F)

HCD=0-10V Dimming Driver (1%-100% Dimming) (9)

for LWIPD1 option

LV1=DLVP Dimming Driver

SD=Step Dimming Driver

(1%-100% Dimming) (12), (B) **5LTD**=Fifth Light DALI Driver

SAMPLE NUMBER: 24GR-LD5-48-F1-UNV-L835-CD1-U

LED Type Rating LD5=LED 5.0 [Blank]= Standard LED Lumen Output (11) ATW-SW4= **30**=3000 **100**=10000 Chicago **34**=3400 **120**=12000 Rated **38**=3800 130=13000 Width / Length **42**=4200 **150**=15000 **48**=4800 **180**=18000 **24**=2' x 4' **56**=5600 Trim Type **64**=6400 G=Grid/Lay-in **72**=7200 (Standard) (1) **85**=8500 G=Concealed T 90=9000 G=Slot Grid Shielding F1=A12 .095 HP (Standard) Series (13)

Door Frame Standard=Flat White Steel Door (Leave Blank)

FA=Flush White Extruded Aluminum c/w Spring Latch

R=General Purpose Troffer

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

A/WG=Prismatic Acrylic Lens, Wireguard & Doorframe

F1/WG=Frosted Prismatic Acrylic Lens, Wireguard & Doorframe

F125=A12 .125 HP

A19/156=#19 Pattern Acrylic (.156" Thick)

FGW080=Frosted Glazed

A=A12 .095

Lens .080

A125=A12 .125

Driver Type CD=0-10V Dimming Driver Voltage (2)

347V=347 Volt (14), (15) UNV=Universal Voltage 120-277 (3) 48V=48 Volt Low-voltage (Class 2)

Ontions

GL=Single Element Fuse GM=Double Element Fuse

Emergency EL7W=7-watt, 120V-277V emergency battery pack installed (4)

EL14W=14-watt 120V-277V emergency

battery pack installed (4) ELV7W=7-watt, DLVP-compatible low voltage

emergency battery pack installed (C)

ELV14W=14-watt DLVP-compatible low voltage emergency battery pack installed ^(c) GTR2=Bodine Generator Transfer Relay ⁽¹⁰⁾

ETRD=lota Emergency Transfer Relay with dimming control (10)

CCT

1830=3000K L835=3500K

L840=4000K

L850=5000K

A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads

Multiple other configurations available. See below for details.

Integrated Sensing Systems

SWPD1=WaveLinx Wireless Integrated Sensor (A) LWIPD1=LumaWatt Pro Wireless Integrated Sensor (B) LWTPD1=LumaWatt Pro Wireless Tile-mount Sensor (B) SLVPD1=DLVP Low-voltage Integrated Sensor (C) SVPD1=0-10V Stand-alone Integrated Sensor (D)



Packaging U=Unit Pack

PAL=Job Pack, out of carton PALC=Job Pack, in carton

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips (1)

DF-24-W=2' x 4' Drywall Frame Kit

ISHH-01=Programming Remote for Integrated Sensor (D) ISHH-02=Personal Control Remote for Integrated Sensor (D)

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) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (5) Gasketing only available with aluminum door frame. (6) Gasketing minimum. 125. (7) Step dimming (bi-level) 1 driver, 4200 - 10000, 2 driver, 12000 and up lumen models. Two of views required for 10000 lumen models and up. (8) Requires two drivers for 10000 lumens and above. (10) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. (11) Nominal lumen output. See table for actual values (12) SR driver required for LWIPD1 only. PDR required for 120 lumens and up. (13) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details. (14) XMFR required for 15000 lumens and up. (15) 347V versions are not available with emergency options. SD, 5LTD, and SR drivers with 347V are available but not DLC qualified.

Integrated Sensing and Control System Options

NOTES: Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx system pages for additional details and compatibility. (B) Consult LumaWatt Pro system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility.)

Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type.

A3/8-4/18GDIM series notes: Factory installed dimming option 3/8″ flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556.

NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).

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

SHIPPING DATA

Catalog No. Wt. **Pallet** 24GR-LD5-48 20 lbs. 28



Metalux

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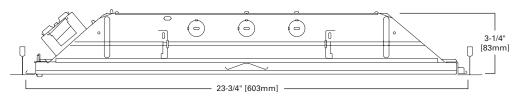
2' X 4' LED TROFFER

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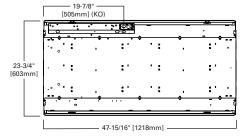








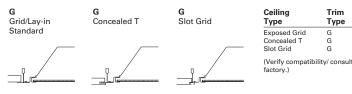
MOUNTING DATA



DOOR FRAMES

GC GCAFA GCRA Flat, White Flat, Extruded Deep, Regressed, White Aluminum Extruded Natura Aluminum

CEILING COMPATIBILITY

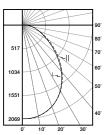


ing e	Trim Type	LINEAR DISCONNECT
sed Grid	G	LINEAR DISCONNECT
ealed T	G	Safe and convenient means of
Grid	G	Sale and convenient means of

Safe and convenient means of disconnecting power







24GR-LD5-48-F1-UNV-L835-CD1-U **Electronic Driver** Linear LED 3500K Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.18 x mounting height Lumens: 4821 Input Watts: 37W Efficacy: 128.6 lm/W Test Report: 24GR-LD5-48-F1-UNV-L835-CD1-U.IES

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90	0	0	0

Coefficients of Utilization

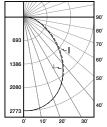
	Effe	ectiv	e floo	or cav	cavity reflectance			20	%									
rc		80% 70%				50%				30%			10%	, D	0%			
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	98	90	90 85 80 87 82 78 84 80 7				76	81	77	74	72			
3	92	82	74	68	89	80	73 67 77 71 66 75 69 65				72	68	64	62				
4	85	73	65	58	82	72	64	I 58 69 63 57 67 61 57 65				65	60	56	54			
- 5	78	66	57	51	76	65	57	51	51 63 56 50 61 55 50 59			59	54	49	47			
6	72	60	51	45	71	59	51	45	15 57 50 44 55 49 44 5			54	48	44	42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
- 8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

7 on al	Lumen	Summary

Zone	Lumens	% Fixture	
0-30	1564	32.4	
0-40	2486	51.6	
0-60	4001	83.1	
0-90	4821	100.0	
0-180	4821	100.0	

Luminance Data

Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
2444	2401	2355
2048	1977	1915
1697	1584	1595
1517	1439	1571
1671	1580	1842
	0-Deg cd/sm 2444 2048 1697 1517	0-Deg cd/sm 45-Deg cd/sm cd/sm 2444 2048 1977 1697 1584 1517 1439



24GR-LD5-64-F1-UNV-L835-CD1-U Electronic Driver Linear LED 3500K Spacing criterion: (II) 1.19 x mounting height, (⊥) 1.18 x mounting height Lumens: 6462 Input Watts: 48W Efficacy: 134.2 lm/W Test Report: 24GR-LD5-64-F1-UNV-L835-CD1-U.IES

Angle	Along II	45°	Across 1
0	2767	2767	2767
5	2763	2750	2758
10	2718	2706	2716
15	2643	2631	2637
20	2534	2519	2529
25	2384	2376	2378
30	2209	2196	2192
35	2001	1985	1967
40	1764	1741	1724
45	1512	1486	1458
50	1267	1234	1198
55	1028	992	961
60	812	769	755
65	627	586	590
70	467	440	461
75	344	326	356
80	231	225	254
85	128	121	141
90	0	0	0

Coefficients of Utilization

	Effe	ectiv	e floo	or cav	ity ref	ecta	nce	209	20%									
rc		8	0%			7	0%			50%	6		30%	5		10%	,	0%
rw	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	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	97 107 103 99 96 98 95 93 94 92 9				90	91	89	87	85						
2	100	92	86	80	0 98 90 85 80 87 82 78 84 80				80	76	81	77	74	72				
3	92	82	74	68	68 89 80 73 67 77 71 66 75 69 6			65	72	68	64	62						
4	85	73	65	58	82	72	64	58	69	69 63 57 67 61 57 65 60			56	54				
5	78	66	57	51	76	65	57	57 51 63 56 50 61 55 50 59			54	49	47					
6	72	60	51	45	71	59	51	45	57	57 50 44 55 49 44 54 48		48	44	42				
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	44	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	33
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28

Zonal Lumen Summary

Zone	Lumens	% Fixture
0-30	2097	32.4
0-40	3333	51.6
0-60	5370	83.1
0-90	6462	100.0
0-180	6462	100.0

Luminance Data

Angle in Deg	Average 0-Deg cd/sm	Average 45-Deg cd/sm	Average 90-Deg cd/sm
45	3276	3218	3157
55	2746	2650	2567
65	2275	2123	2138
75	2034	1928	2105
85	2241	2119	2469

ENERGY AND PERFORMANCE DATA BY CATALOG NUMBER

Stock or MTO*	Catalog Logic	Delivered Lumens	Watts	Efficacy (LPW)
MTO	24GR-LD5-30-F1-UNV-L835-CD1-U	3074	23.4	131
MTO	24GR-LD5-34-F1-UNV-L835-CD1-U	3459	26.7	129
Stock	24GR-LD5-38-F1-UNV-L835-CD1-U	3880	30.6	127
MTO	24GR-LD5-42-F1-UNV-L835-CD1-U	4294	34.6	124
Stock	24GR-LD5-48-F1-UNV-L835-CD1-U	4821	37.4	129
MTO	24GR-LD5-56-F1-UNV-L835-CD1-U	5618	45.1	124
Stock	24GR-LD5-64-F1-UNV-L835-CD1-U	6462	48.1	134
МТО	24GR-LD5-72-F1-UNV-L835-CD1-U	7257	56.0	129
МТО	24GR-LD5-85-F1-UNV-L835-CD1-U	8567	70.3	122
MTO	24GR-LD5-90-F1-UNV-L835-CD1-U	9092	69.1	132
MTO	24GR-LD5-100-F1-UNV-L835-CD2-U	10030	71.7	140
МТО	24GR-LD5-120-F1-UNV-L835-CD2-U	12260	90.1	136
MTO	24GR-LD5-130-F1-UNV-L835-CD2-U	13290	90.2	134
МТО	24GR-LD5-150-F1-UNV-L835-CD2-U	15340	120.3	128
МТО	24GR-LD5-180-F1-UNV-L835-CD2-U	18050	144.2	125
_	K and 4000K others are MTO	10050	144.2	125

Stocked in 3500K and 4000K others are MTO.

LENS TABLE

Approximate Lumen Multiplier		
F1	1.0	
F125	1.0	
A125	1.01	
А	1.01	
A19/156	.975	
FGW080	.85	

CCT TABLE

Approximate Color Temperature Multiplier			
5000K	1.016		
4000K	1.016		
3500K	1.0		
3000K	.982		
2700K	.930		



Number of Drivers

PAF=Painted After Fabrication

G1=Gasket, Door Frame and

G2=G1 plus Gasket between

G3=G1 and G2 plus Gasketing

on Mounting Surface of

1=1 Driver

2=2 Drivers

Lens and Door

Fixture Trims (5), (6)

XFMR=Transformer

Options

(10%-100% Dimming) (9)

SR=Sensor-ready Dimming Driver

5LTHD=Fifth Light Dimming Driver

(0%-100% Dimming) (C)

(10%-100% Dimming) (8), (E)

(1%-100% Dimming) (E)

with Soft-on Fade to Black dimming (F)

(50% or 100% Dimming) ⁽⁷⁾ **LH**=Lutron HiLume (LDE1 series) 1%-100% EcoSystem Driver

L5=Lutron 5 Series (LDE5-Series) 5%-100% EcoSystem Driver (F)

LU=Lutron HiLume (L3D series) 1%-100% EcoSystem/3-wire Driver (F)

HCD=0-10V Dimming Driver (1%-100% Dimming) (9)

for LWIPD1 option

LV1=DLVP Dimming Driver

SD=Step Dimming Driver

(1%-100% Dimming) (12), (B) **5LTD**=Fifth Light DALI Driver

SAMPLE NUMBER: 24GR-LD5-48-F1-UNV-L835-CD1-U

LED Type Rating LD5=LED 5.0 [Blank]= Standard LED Lumen Output (11) ATW-SW4= **30**=3000 **100**=10000 Chicago **34**=3400 **120**=12000 Rated **38**=3800 130=13000 Width / Length **42**=4200 **150**=15000 **48**=4800 **180**=18000 **24**=2' x 4' **56**=5600 Trim Type **64**=6400 G=Grid/Lay-in **72**=7200 (Standard) (1) **85**=8500 G=Concealed T 90=9000 G=Slot Grid Shielding F1=A12 .095 HP (Standard) Series (13)

Door Frame Standard=Flat White Steel Door (Leave Blank)

FA=Flush White Extruded Aluminum c/w Spring Latch

R=General Purpose Troffer

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

A/WG=Prismatic Acrylic Lens, Wireguard & Doorframe

F1/WG=Frosted Prismatic Acrylic Lens, Wireguard & Doorframe

F125=A12 .125 HP

A19/156=#19 Pattern Acrylic (.156" Thick)

FGW080=Frosted Glazed

A=A12 .095

Lens .080

A125=A12 .125

Driver Type CD=0-10V Dimming Driver Voltage (2)

347V=347 Volt (14), (15) UNV=Universal Voltage 120-277 (3) 48V=48 Volt Low-voltage (Class 2)

Ontions

GL=Single Element Fuse GM=Double Element Fuse

Emergency EL7W=7-watt, 120V-277V emergency battery pack installed (4)

EL14W=14-watt 120V-277V emergency

battery pack installed (4) ELV7W=7-watt, DLVP-compatible low voltage

emergency battery pack installed (C)

ELV14W=14-watt DLVP-compatible low voltage emergency battery pack installed ^(c) GTR2=Bodine Generator Transfer Relay ⁽¹⁰⁾

ETRD=lota Emergency Transfer Relay with dimming control (10)

CCT

1830=3000K L835=3500K

L840=4000K

L850=5000K

A3/8-4/18GDIM=3/8" Flex with 0-10V Dimming Leads

Multiple other configurations available. See below for details.

Integrated Sensing Systems

SWPD1=WaveLinx Wireless Integrated Sensor (A) LWIPD1=LumaWatt Pro Wireless Integrated Sensor (B) LWTPD1=LumaWatt Pro Wireless Tile-mount Sensor (B) SLVPD1=DLVP Low-voltage Integrated Sensor (C) SVPD1=0-10V Stand-alone Integrated Sensor (D)



Packaging U=Unit Pack

PAL=Job Pack, out of carton PALC=Job Pack, in carton

ACCESSORIES

EQ-CLIP-U=T-BAR Safety Earthquake Clips (1)

DF-24-W=2' x 4' Drywall Frame Kit

ISHH-01=Programming Remote for Integrated Sensor (D) ISHH-02=Personal Control Remote for Integrated Sensor (D)

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) With integral test switch/indicator/laser test. For approximate delivered lumens multiply the lumens per watt of the desired fixture by the wattage of the emergency battery pack (100 lm/W x 7=700 lumens). IES-format photometry for luminaire under emergency operation available. (5) Gasketing only available with aluminum door frame. (6) Gasketing minimum. 125. (7) Step dimming (bi-level) 1 driver, 4200 - 10000, 2 driver, 12000 and up lumen models. Two of views required for 10000 lumen models and up. (8) Requires two drivers for 10000 lumens and above. (10) Used to bypass local control during outage. Must be used in conjunction with UL 1008 device (provided by others). GTR2 option includes 2 relays on fixtures with dimming drivers. ETRD option only requires one relay when used on a dimming fixture. Must specify voltage as 120V or 277V when ordering these devices. (11) Nominal lumen output. See table for actual values (12) SR driver required for LWIPD1 only. PDR required for 120 lumens and up. (13) DesignLights Consortium® Qualified and classified for both DLC Standard and DLC Premium, refer to www.designlights.org for details. (14) XMFR required for 15000 lumens and up. (15) 347V versions are not available with emergency options. SD, 5LTD, and SR drivers with 347V are available but not DLC qualified.

Integrated Sensing and Control System Options

NOTES: Integrated options must be used in conjunction with the associated system and may not be compatible with other options or accessories. Please refer to the following: (A) Consult WaveLinx system pages for additional details and compatibility. (B) Consult LumaWatt Pro system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility. (Consult MaveLinx system pages for additional details and compatibility.)

Flex options available for 0-10V dimming control, DALI dimming control, emergency and night light functions. 72-inch factory-installed and pre-wired to driver, fitted to luminaire housing access plate with 90° enclosed FMC connector. Not all options may be combined and installation ratings vary by type.

A3/8-4/18GDIM series notes: Factory installed dimming option 3/8″ flexible metal conduit with 2-#18 power and ground wires and 2-#18 UL-listed jacketed 0-10V +/- control wires. Meets UL 66, 83, 1479, 1569, 1581, 2556.

NEC® 250.118, 300.22(C), 392, 396, 330, 501, 502, 503, 530, 504, 505, 518, 520, 530, 645, 72; Federal Specification A-A-59544 (formerly J-C-30B); all applicable OSHA and HUD Requirements. UL Classified 1-, 2-, and 3-hour through penetration with applicable fire stop product (not included). May be surface mounted, fished and/or embedded in plaster. Cable tray and approved raceway rated, install per NEC®; Environmental Air-Handling Space Installation per NEC® 300.22(C).

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

SHIPPING DATA

Catalog No. Wt. **Pallet** 24GR-LD5-48 20 lbs. 28

