

Rough Service Corner or Surface Mount Linear Fluorescent

USA / Canada / Mexico

4' Length (1.22m)
1 or 2 Lamps

FEATURES & SPECIFICATIONS

INTENDED USE

General illumination for rough service (vandal-resistant) applications. Designed for indoor and outdoor applications like corridors, walkways, pedestrian tunnels, canopies and drive-through areas. Certain airborne contaminants can diminish integrity of acrylic. See documentation for Acrylic Environmental Compatibility table for suitable uses.

ATTRIBUTES

Lens is a clear, internally frosted, UV-stabilized, injection-molded polycarbonate. Smooth exterior for easy maintenance. Lens is gasketed against moisture and contaminants. Lens is secured to housing with six stainless steel Torx® T-20 tamper-resistant screws (included).

CONSTRUCTION

Housing made from heavy-duty, 16-gauge cold-rolled steel, one-piece design for corner-mounted (VDC) or surface-mounted (VDS) applications. Housing and reinforcing members welded together for strength.

FINISH

All metal parts are painted after fabrication in white polyester powder coat for smooth, finished edges and corrosion resistance.



ELECTRICAL SYSTEM

Class P, high-power-factor ballast is standard. Ballast for 32W is standard cold weather with a 0°F (-18°C) starting temperature. Ballast and lampholders are secured to ballast cover to provide easy installation and maintenance. Ballast cover safety chains included.

LISTING

UL listed for damp locations (wet location option available in covered ceiling applications only). UL listed for 25°C ambient and damp location. CSA Certified or NOM Certified (see Options).

Ordering Informations: For shortest lead times, configure products using **bolded options**. Example: **VDC 2 32 MVOLT GEB10IS**

	Series (Mounting)	No. of Lamps ¹	Lamp Type ¹ (not included)	Lens Type	Voltage
	VDC Corner	1	32 32W T8 (48")	<i>(blank)</i> Clear	MVOLT ²
	VDS Surface	2	48HO 60W T12 800mA (48") 28T5 28W T5 (46") 54T5HO 54W T5HO (46")	PCLW White <i>Polycarbonate</i>	120 277 347
	Ballast			Options	
	GEB10IS	T8 electronic ballast, <10% THD, instant start	EL14DW ⁷	Wet location battery pack (nominal 1400 lumens)	
	GEB10RS ⁸	T8 electronic ballast, <10% THD, programmed rapid start	WL	Wet location (covered-ceiling applications only)	
	GEB10PS	T5 electronic ballast, <10% THD, programmed pulse start	RIF1	Radio interference filter, one per fixture	
	GEB10PS90	T5HO 90° electronic ballast, <10% THD, programmed pulse start (request availability)	STS	Stainless steel housing, natural (SS)	
	GEB	T12 electronic ballast, <20% THD (request availability)	STSW	Stainless steel housing, white (SSW)	
	CW ^{3,4}	Cold weather ballast	AL	Aluminum housing, white	
	CW20 ^{5,6}	Cold weather ballast, -20°F (-29°C) starting	CSA	Certified for Canada	
			NOM	Certified for Mexico	
			GLR	Internal fast-blow fusing	
NOTES: 1 Lamps are not included, please order separately. 2 Electronic ballast 120-277V only. Must specify GEB10IS. 3 Not recommended for use in ambient temperatures exceeding 40°F. 4 Not available with EL option. 5 Not available with 48HO 347V. 6 Must be specified with 48HO for cold weather. 7 Luminaires ordered with the DW option (Example: EL14DW) will bear the UL Emergency Lighting Equipment label for damp or wet locations, depending on the fixture. 900 lumens for T5HO. 8 Not available with MVOLT.					

Technical Data are Subject to Change without Notice. Dimensions in inches (mm).

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ELECTRICAL SYSTEM

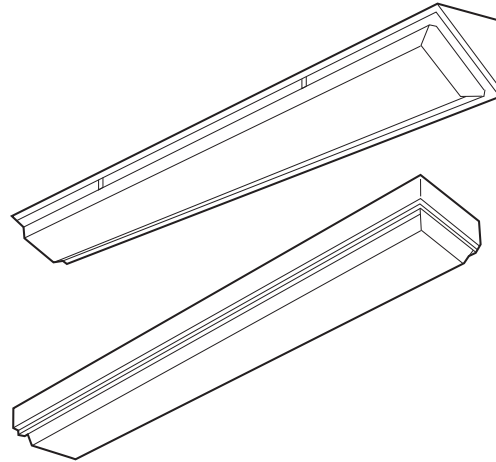
Class P, high-power-factor ballast is standard. Ballast for 32W is standard cold weather with a 0°F starting temperature. Ballast and lampholders are secured to ballast cover to provide easy installation and maintenance. Ballast cover safety chains included.

LISTING

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Rough Service Drop-Dish Corner- or Surface-Mount

VDC/VDS



4' length
1 or 2 lamps

ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.
Example: VDC 2 32 MVOLT GEB10IS

Series	Lamp ¹	Wattage	Lens type	Voltage	
VDC	1	32 32W T8 (48")	(blank) Clear polycarbonate	120	
VDS	2	48HO 60W 800mA (48") ¹ 28 28T5 (46") 54 54T5HO (46")	PCLW White polycarbonate	277 347	
				MVOLT²	
Options					

Accessories

Order as separate catalog numbers.

RK1 T20BIT	Hex-base driver bit, Torx TX20, for tamper-resistant screws with center reject pin.
RK1 T20DRV	Torx TX20 screwdriver for use with tamper-resistant screws with center reject pin.

NOTES:

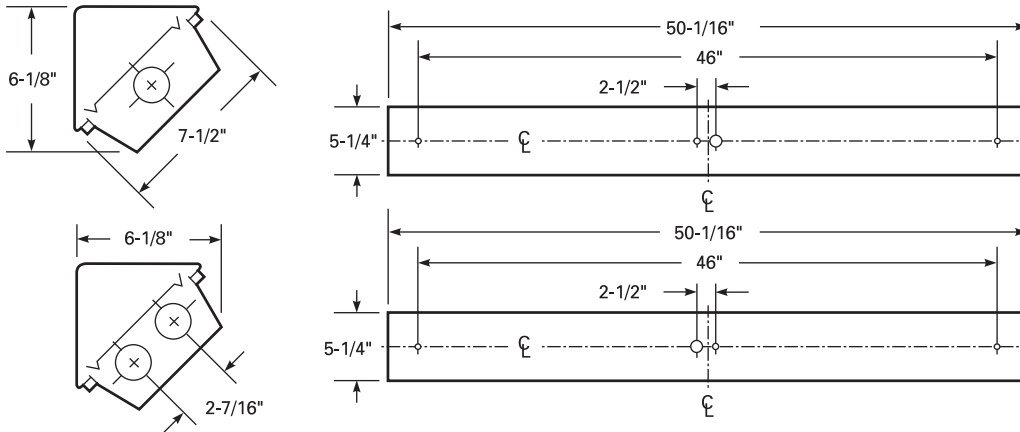
- Lamps not included.
- Electronic ballast 120-277V only. Must specify GEB10IS.
- Not recommended for use in ambient temperatures exceeding 40°F.
- Not available with EL option.
- Not available with 48HO 347V.
- Must be specified with 48HO for cold weather.
- Luminaires ordered with the **DW** option (Example: **EL14DW**) will bear the UL Emergency Lighting Equipment label for damp or wet locations, depending on the fixture. 900 lumens for T5HO.
- Not available with MVOLT.

AL	Aluminum housing
CW	Cold weather ballast ^{3,4}
CW20	Cold weather ballast, -20°F starting ^{5,6}
EL14DW	Emergency battery pack (nominal 1400 lumens) ⁷
GEB10IS	Electronic ballast, <10% THD, instant start
GEB10RS	Electronic ballast, <10% THD, rapid start ⁸
GEB10PS	Electronic ballast, <10% THD, pulse start
GLR	Internal fast-blow fusing
GMF	Internal slow-blow fusing
NLCFH	Compact fluorescent night-light (9W Max.)
RIF1	Radio interference filter, one per fixture
SS	Stainless steel housing, natural
SSW	Stainless steel housing, white
WL	Wet location (covered ceiling only)
CSA	CSA Certified
NOM	NOM Certified

VDC/VDS 4' Length

MOUNTING DATA

Six mounting holes provided in housing back. Use fasteners suitable for ceiling material. Caulk around all mounting points to maintain wet location integrity.



A = 5/16" dia. hole (6)
B = 7/8" dia. K.O.

Dimensions subject to change without notice.

PHOTOMETRICS

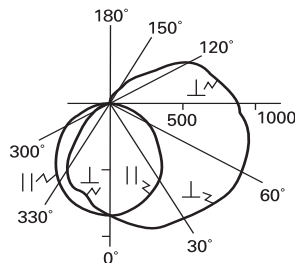
are calculated using the zonal cavity method in accordance with IESNA LM41 procedure. Floor reflectances are 20%. Full photometric data available upon request.

VDC 2 32

Report LTL 5682

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	374	6.5	9.3
0-40	644	11.1	16.0
0-60	1291	22.3	32.1
0-90	2228	38.4	55.4
90-180	906	15.6	22.6
0-180	3134	54.0	78.0

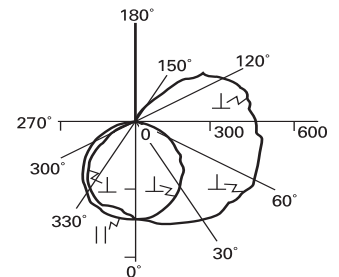


VDC 1 32

Report LTL 5669

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	186	6.4	8.6
0-40	320	11.0	14.7
0-60	642	22.1	29.6
0-90	1114	38.4	51.4
90-180	549	18.9	25.3
0-180	1663	57.4	76.7



VDS 2 32

Report LTL 5671

Coefficient of Utilization

Ceiling	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	50%	30%	10%
1	73	69	66	71	67	64	63	61	58
2	66	60	54	64	58	53	54	50	47
3	60	52	46	58	51	45	48	43	39
4	55	46	40	53	45	39	42	37	33
5	50	40	34	48	39	33	37	32	28
10	33	24	18	32	23	18	22	17	14

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	825	14.2	20.4
0-40	1368	23.6	33.8
0-60	2511	43.3	62.0
0-90	3709	63.9	91.6
90-180	341	5.9	8.4
0-180	4050	69.8	100.0

VDS 1 32

Report LTL 5685

Coefficient of Utilization

Ceiling	80%			70%			50%		
	70%	50%	30%	70%	50%	30%	50%	30%	10%
1	78	74	70	75	71	68	67	64	61
2	70	63	57	68	61	56	57	53	49
3	64	55	48	61	53	47	50	45	40
4	58	48	41	56	47	40	44	38	34
5	53	42	35	51	41	34	39	33	28
10	35	25	18	34	24	18	23	17	14

Zonal Lumens Summary

Zone	Lumens	%Lamp	%Fixture
0-30	411	14.2	18.8
0-40	681	23.5	31.1
0-60	1266	43.7	57.9
0-90	1991	68.7	91.0
90-180	198	6.8	9.0
0-180	2189	75.5	100.0

Certain chemicals that may exist in end-user locations release airborne contaminants that can impact the integrity and safety of key fixture components that contain acrylic material. Immediate damage may occur such as crazing, cracking, permeation losses and mechanical failure. Products with visually noticeable deterioration have diminished integrity and must be replaced immediately with a more suitable product for the application.

This table identifies the most common chemicals and is not intended to be all-inclusive. Exposure to compounds identified as "Not Acceptable" will void all war-

Acrylic Compatibility

ranties associated with the product. Acrylic components should not be used in areas where these chemicals are used and where these chemicals become mists or airborne vapors. Ensure that chemical interactions are considered when selecting fixtures. For additional information please consult an authorized factory representative.

NOT ACCEPTABLE			ACCEPTABLE	
Acetaldehyde, 100%	Dibutyl Sebacate	Petroleum Ether (100-120C)	2-Ethylhexyl Sebacate	Nitrogen Monoxide Gas
Acetates	Diethyl Ether	Phenois	Acetic Acid 5%	Olefric Carboic Acids
Acetic Acid, Glacial, 100%	Dimethyl Formamide	Phenol, Aqueous, 5%	Ammonia-based Cleaners	Oleic Acid
Acetic Anhydride	Diocetyl Sebacate	Phosphoric Acid, 95% @ 20C	Ammonia Gas	Olive Oil
Acetone	Dioxane	Phthalates	Ammonium Hydroxide, 28%	Oxalic Acid, 100%
Acetonitrile	Ether	Pyridine	Ammonium Nitrate	Oxygen Gas
Acetophenone	Ethyl Acetate	Sulfur Dioxide, Liquid	Ammonium Phosphate	Ozone Gas
Acrylic Paints	Ethyl Alcohol, Concentrated	Sulfuric Acid, 98%	Aniseed, Bay Leaves, Nutmeg	Paraffin, Medicinal
Alcohol, Allyl	Ethyl Bromide	Sulfurous Acid, Concentrated	Anti-freeze	Pepper, Cinnamon, Onions
Alcohol, Amyl	Ethyl Butyrate	Tincture of Iodine, 5%	Beer	Phosphoric Acid, 10% @ 20C
Alcohol, Benzyl	Ethylene Bromide	Toluene	Bleaching Power Paste	Photographic Baths
Alcohol, Ethyl, 100%	Ethylene Dibromide	Transformer Oil	Bleaching Powder Solution, 2%	Polishing Compounds
Alcohol, Ethyl, 50%	Ethylene Oxide (Moist)	Trichloroethane	Calcium Hypochlorite	Polishing Compounds
Alcohol, Isopropyl, 100%	Glass Cleaners	Trichloroacetic Acid	Car Wash Detergent	Potassium Chlorate
Alcohol, Methyl, 10%	Glycol	Trichloroethylene	Carbon Dioxide Gas	Potassium Cyanide
Alcohol, Methyl, 100%	Hydrogen Peroxide, 28%	Turpentine	Carbon Monoxide Gas	Potassium Dichromate, 10%
Alcohol, Methyl, 50%	Hydrogen Peroxide, 3%	Unleaded Gasoline	Caustic Potash	Potassium Hydroxide @ 20C
Alcohol, N-Butyl	Iron Perchloride	Vegetable Oil	Chlorine Based Cleaners	Potassium Permanganate
Amyl Acetate	Isocane	Xylene	Chlorine, Aqueous, 2%	Potassium Sulfite
Aniline	Isopropyl Alcohol		Citric Acid, 10%	Power Steering Fluid
Aviation Fuel (100 Octane)	Lacquer Thinner		Coffee	Propylene
Benzaldehyde	Lactic Acid Butyl Ester		Cottonseed Oil	Pure-oil Paints
Benzene	Mercury Chloride		Diethylene Glycol	Silicone Oil
Benzoic Aldehyde	Meta-Cresol		Epoxy Adhesives	Silver Nitrate
Brake Fluid	Methanol, 15%		Ethyl Alcohol, 15%	Soap Suds
Bromine Gas	Methanol, Concentrated		Ethylene Glycol E	Soda
Butanol	Methyl Benzoate		Ethylene Oxide (Dry)	Sodium Chloride, 10%
Butraldehyde	Methyl Chloride		Ferric Chloride, Aqueous, 10%	Sodium Cyanide
Butyl Acetyl Ricinoleate	Methyl Cycohexanol		Formaldehyde, Aqueous, 40%	Sodium Fluoride
Butyl Stearate	Methyl Ethyl Ketone		Fruit Juice	Sodium Hydroxide, 60%
Carboic Acid	Methyl Naphthalene		Glycerol	Sodium Nitrate
Carbon Disul de	Methyl Salicyclate		Heptane	Sodium Thiosulphate, 40%
Carbon Disulfide	Methylamine		Hexane	Stearic Acid
Cellulose Paints	Methylene Dichloride		Hydrochloric Acid, 38%	Sulfur Dioxide, Dry Gas
Chlorinated Hydrocarbons	Mineral Oil		Kerosene	Sulfuric Acid, 30%
Chlorinated Solvents	Motor Fuel Mixture, with Benzene		Lactic Acid	Sulfurous Acid, 5%
Chlorine Gas	Nail Polish		Metal Carbonates	Tararic Acid, 50%
Chlorophenol	Naphta		Metal Chlorides	Transmission Fluid
Chromic Acid, 40%	N-Butyric Acid, 100%		Metal Sulfates	Tricresyl Phosphate
Cloves	Nitric Acid, 40%		Methane Gas	Triethyl Amine
Cosmoline Removers	Nitric Acid, 70%		Milk	Vinegar
Cresol	Nitrobenzene		Milk, Chocolate	Water, Mineral Water
Cyclohexane	N-Octane		Motor Fuel Mixture, without Benzene	Wax Polish
Cyclohexanone	Organic Solvents		Motor Oil	White Spirit
Cyclohexene	Paint Removers		Natural Gas	Whitewash
Detergent Solution	Paint Thinner		Nitric Acid, 10%	Wine
Diacetone Alcohol	Perchlorethylene		Nitrogen Dioxide Gas	
Diamyl Phthalate				

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