

The Garage Light Series LED Luminaire family has been developed to dramatically improve energy efficiency and quality of light using Solid State Lighting (SSL) technologies. The Garage Light Series LED Luminaires provide an energy efficient, low maintenance and compact, contemporary design which has been specifically designed to replace existing fluorescent and HID light sources or for use in new construction. Comfortable, low glare, uniform lighting is attributed to this style of luminaire. Typical applications for this type of product are primarily parking garages. Applications include:

- Parking Garages and Stairwells
- Food Processing Facilities and Kitchens
- Car Washes, Loading Docks, Canopies and Overhangs
- General Lighting for All Damp/Wet Locations



project:

fixture type:

catalog #:

quantity:

ORDERING GUIDE

GLT 4 - - - - - - - - - -


PREFIX/SERIES	SIZE	OPTICS (DISTRIBUTION)	LUMEN OUTPUT	DRIVER VOLTAGE	DRIVER TYPE	COLOR TEMP.	LENS (DIFFUSER)	HOUSING COLOR/FINISH	FIXTURE OPTIONS	FIXTURE OPTIONS (CONTINUED)
GLT - Garage Light	4 - 4'	S - Spread C - Custom (Specify)	L020 - 2000 L030 - 3000 L040 - 4000 L050 - 5000 L060 - 6000 L070 - 7000 L080 - 8000 L090 - 9000 L100 - 10000 L110 - 11000 L120 - 12000 LC - Custom (Specify)	UNV - Universal Voltage (120v - 277v) (60 Hz) 120 - 120v 277 - 277v	DM - 0-10v Low Voltage Dimming (10% - 100%) (Standard) SD - Step Dimming (50% - 100%) LV - Line Voltage Dimming *Specify Voltage (120v or 277v)	C40 - 4000 K C50 - 5000 K	CA - Clear Acrylic (Stipled Pattern) (Standard) C - Custom (Specify)	OW - Off White (Natural FRP) (Standard) CS - Custom Finish (Specify)	C6E - 6' Power Cord (Black) 16/3 SE00W (End Mount) C6TE - 6' Power Cord (Black) 16/3 SE00W Top Mount (End) C6TC - 6' Power Cord (Black) 16/3 SE00W Top Mount (Center) SSBK - Stainless Steel Mounting Brackets (Standard) SLBK - Steel "Slotted" Mounting Brackets (Gloss White Powder Coat Finish)	SSTP - Stainless Steel Tamperproof Latches DC - Digital Control with Occupancy & Daylight Sensor OS - Occupancy Sensor PC - Photocell DT - "DainTree" Sensor LLT - "Limelight" Sensor EM - Emergency Battery Pack *

RENOVA Products Listed on the DLC Qualified Product List (QPL)

See page 4 for complete list.

*Standard "EM" option to be NiCd Battery @ 1000 Lumens @ 90 min. duration [standard]. Consult factory for all available options.

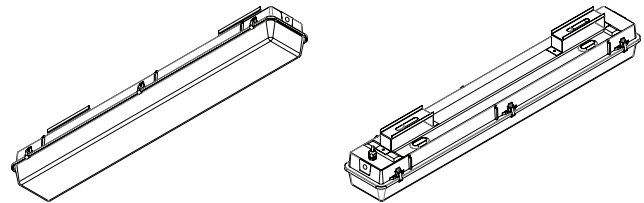
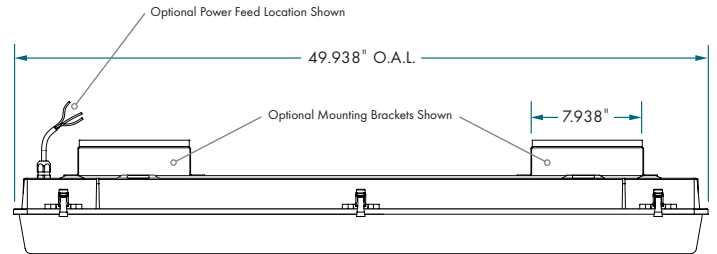
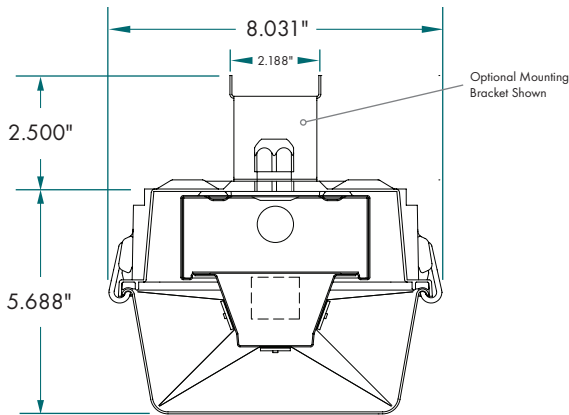
**GLT4 Series Garage Luminaires have a lumen output range from 2000 through 12000 depending on driver/board configuration. Consult factory for correct catalog number on all custom configured lighting products.

PRIOR TO REPLACING AN EXISTING FLUORESCENT FIXTURE, PLEASE NOTE THE FOLLOWING:
 Fluorescent lamps contain small amounts of mercury. Such lamps are labeled "Contains Mercury" and / or with the symbol "Hg." Lamps that contain mercury must be disposed of in accordance with local requirements. Information regarding lamp recycling and disposal can be found at www.lamprecycle.org.

 DLC Application Category #5 "Parking Garage Luminaires."
 Always refer to the DLC's Qualified Products List (QPL) for current Renova product listings.

GLT Cross Section

Prefix: GLT



CONSTRUCTION

- One-piece housing is precision injection molded from fiberglass reinforced polyester (FRP) resin.
- Housing is dust and moisture resistant and achieves IP65 or IP67 rating depending on model. Approvals and / or Listings: UL/CUL/NSF International.
- Internal sheet metal components are manufactured from 22 Ga. cold rolled steel and are mechanically fastened for strength and rigidity.

GASKETING

- Gasket material to be permanent, continuous, poured in place, advanced technology molecular structure type.

FINISH

Fiberglass Housing (External)

- Natural fiberglass finish is smooth and has no need for protective coating. General color is "Off-White."

Sheet Metal (Interior)

- High Reflectance Smooth White polyester powder coat baked enamel applied as either Pre-Painted or Post Painted.

LATCHES

- Acetal copolymer offers increased strength over conventional plastic latches. Cam-action, suitcase style type.
- Stainless steel latches are optional.
- Tamperproof latches are optional.

LED's/OPTICS

- LED boards manufactured specifically for commercial lighting applications. LED boards feature the latest mid-power LEDs for maximum performance, efficiency and longevity.
- Standard color temperatures offered are 4000K and 5000K. Consult factory for all other color temperature options. 80 CRI (Minimum). RoHS Compliant.
- Always consult factory for the latest developments and improvements concerning LEDs and Optics.

DRIVERS

- Electronic, Constant Current Type. Universal Voltage: 120v-277v (Standard).
- 0-10v low voltage dimmable. 10-100% (Standard) / 0-100% (Optional).
- Step-Dimming and Line Voltage Dimming Drivers are optional.
- UL Recognized Class 2, RoHS Compliant.

LENS (DIFFUSER)

- Thermoformed, High-Impact clear, virgin acrylic with 30% DR additive used to increase resistance to breakage.
- Stippled embossment reduces glare and provides a clean, aesthetic contemporary look.

MOUNTING

- Fixtures are designed to be surface mounted or suspended using pendant, aircraft cable or jack chain. Stainless Steel mounting brackets are standard. (2) per 4' Fixture. Consult factory for all other mounting options.

ELECTRICAL

- Fixtures are UL/CUL Wet Location listed and labeled.
- LM-80 performance for 50,000+ hours.
- Bi-Level dimming option allows 50% power for compliance with common energy codes.
- Driver disconnect provided where required to comply with US & Canadian codes

QUALITY CONTROL

- All fixtures are designed, fabricated, painted, assembled, tested, packaged and shipped from RENOVA's manufacturing facility in Mansfield, MA (USA).

WARRANTY

- 5-year limited warranty. Please refer to RENOVA's website at www.renova.com/sales/warranties for the latest warranty terms and conditions.

NOTES:

LED Drivers have adjustable output capability. A wide range of input watts/lumen output can be adjusted up or down on all models to suit a particular application. Always consult factory for the latest information.

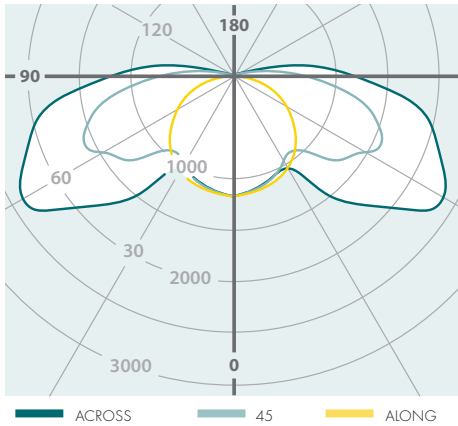
Photometric data, IES files and all other information is available on request.

RENOVA products are constantly being improved; therefore the information shown is subject to change without notice. Always consult your lighting representative or RENOVA Lighting Systems, Inc. for the latest information.



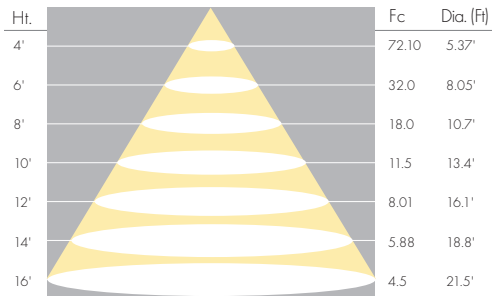
Catalog #: GLT4-S180-UNV-DM-C50-CA
 Photometric Test Report #: 10542601-795084
 Delivered Lumens: 8369
 Efficacy (Lumens/Watt): 115.9
 Power: 72.16w @ 120 VAC
 Power Factor: 0.995
 Current THD: 7.74%
 CRI: 83.7
 CCT: 5047 K
 LED Life: 50,000+ hrs

Candela Distribution Polar Plot



Spacing/Mounting Height: 2.2
 SC (Along): 1.3 SC (Across): 2.2

Cone of Light Tabulation



Coefficients of Utilizations (%)
Effective Floor Cavity Reflectance 20 Per (pfc=0.20)

pcc	80			70			50		
	70	50	30	70	50	30	50	30	
RCR	0	117	117	117	113	113	113	106	106
	1	101	94	87	97	90	85	84	79
	2	89	78	69	85	75	66	69	62
	3	79	66	55	75	63	54	59	50
	4	72	57	46	68	55	45	51	42
	5	65	49	39	62	48	38	44	36
	6	59	43	33	56	42	32	39	30
	7	54	38	28	52	37	28	34	26
	8	50	34	25	48	33	24	31	23
	9	46	31	22	44	30	21	28	20
	10	43	28	19	41	27	19	26	18

Luminance Summary CD./SQ.M.

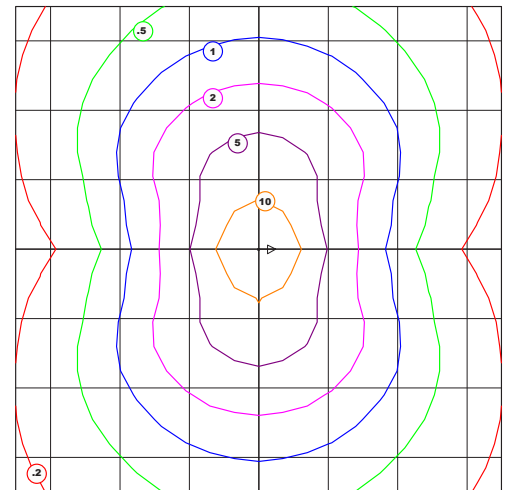
Angle	Along	45.0	Across
45	5829	5628	9010
55	5582	8104	12638
65	5261	11050	14073
75	4775	11900	15158
85	3899	11628	15008

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	906	10.83
0-40	1551	18.54
0-60	3730	44.56
0-90	7538	90.07
40-90	5987	71.54
60-90	3809	45.51
90-180	831	9.93
0-180	8369	100.00

Horizontal Footcandles

Mounting Height = 8'-0" A.F.F.
 Maximum Calculated Value = 18.03 Fc



Grid Lines in Units of Mounting Height

10fc 5fc 2fc 1fc .5fc .2fc



GLT Fixtures Listed on the DLC Qualified Products List (QPL)

GLT-4-MS-L83-UNV-2/48DM-W72-C50-CA-B6CLRBKT01