GPE GHB® PRISMATIC LUMINAIRE (Acrylic) NuVation™ Electronic Ballast — High Bay, Open —

Bracket Mount Optical Series, General Die-Cast Housing

APPLICATIONS

- Assembly lines, inspection areas, production bays, storage areas, warehouses and commercial areas

SPECIFICATION FEATURES

- Ⓤ1598 Listed
  Suitable For Damp Locations
- Nuvation™ electronic ballast:
  - Dimming Option — dims lamp to 50% of rated lamp wattage.
  - Two piece heavy-duty die cast aluminum housing
  - Flexible Spacing Criterion (SC)–five position mounting bracket allows field-adjustable light distribution
  - Attractive round ballast housing design with white polyester paint finish
  - Integral air gap between optical mounting and ballast for optimum temperature control and thermal management
  - Slide-on mounting box adaptor with 3/4-in pendant and thru feed capability for ease of installation and mounting.
- External wattage selection port for selection of 250, 320, 350 & 400 watt choices.
- Safety chain provisions
- Mogul base socket – E39 standard
- Shipped as components: Ballast, Optical. Magnapack available for ballast.

ORDERING NUMBER LOGIC

GPE	W	40	M	0	E	V6	NA	11	X
PRODUCT IDENT	COLOR	WATTAGE	LIGHT SOURCE	VOLTAGE	BALLAST TYPE	OPTICAL CODE	PHOTOMETRY CODE	MOUNTING CODE	OPTIONS
XXX	X	XX	X	X	X	XX	XX	XX	X
GPE = GHBP Luminaire with NuVation Electronic Ballast	W = White Polyester Powder	25 = 250 32 = 320 35 = 350 40 = 400	N = Ballast will operate Pulse Start or Ceramic Metal Halide Lamps Note: Lamp is vertical base up. Lamp not included.	G = 208-277 Discrete voltages must be specified when ordering cord & plug assemblies: 2 = 208 3 = 240 4 = 277	E = Electronic C= Dimming	V4 = Open ventilated 14-inch glass D4 = 14-inch glass with door glass kit V6 = Open ventilated 16-inch acrylic V2 = Open ventilated 22-inch acrylic NOTE: Do not use open opticals with lamps specified for use in enclosed fixtures only. Note: Lens assemblies' available.	NA = Not Applicable (Reflector position is set at installation) See opposing page.	XX = Select Code Below 11 = Pendant mounting 13 = Provision for Slide-on Primary Electrical Disconnect. Order TWOBP Box (Thru Feed Capability Only) Separately. 14 = Provision for Slide-on Primary Electrical Disconnect. (Pendant and Thru Feed Capability) Order PED Box Separately 15 = Prewire with Loop, Cord and Plug Part of "Power Hook". Order Receptacle/Hook Box Separately. (Not CSA/CUL) 31 = Prewire with Hook, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug 33 = Prewire with Loop, 3-ft (0.9 Meters) #16/3 Cord, and Nema Plug *(Order locking receptacle hook box separately.)* MODULAR PREWIRE 41 = ACS with 3-ft (0.9 meter) cord & Hook 69 = ACS with 6-ft (1.8 meter) cord & Hook 43 = ACS with 3-ft (0.9 meter) cord & Loop 70 = ACS with 6-ft (1.8 meter) cord & Loop PLUG-N-GO 51 = Plug-N-Go with 3 ft. (0.9 meter) Cord & Hook 71 = Plug-N-Go with 6 ft. (1.8meter) Cord & Hook 53 = Plug-N-Go with 3 ft. (0.9 meter) Cord & Loop 72 = Plug-N-Go with 6 ft. (1.8 meter) Cord & Loop Note: ACS = Flex 3+ Plug-N-Go = FSC Series	Q = Automatic Switch Quartz S = Exclusionary mogul base socket for MH open fixtures

BALLAST DATA

- 13% Improvement in Pulse Start Metal Halide lamp lumen maintenance vs. magnetic.
- 6% improvement in Ceramic Metal Halide lamp lumen maintenance vs. magnetic.
- 50% lower ballast losses than typical CWA magnetic HID ballast.
- Lamp wattage regulation of +/-2% change for +/-10% change in line voltage.
- Ballast is rated for use with voltage range between 208 and 277 with +/-10% line voltage tolerance, 50/60 Hz, and will automatically sense voltage within specified range.
- Ballast input current total harmonic distortion (THD) of less than 15% when operated at nominal line voltage.
- Ballast is thermally protected to shut off when operating temperatures are above unacceptable levels for the ballast safe and reliable operation.
- Ballast has an end-of-lamp-life detection and shutdown circuit.
- The ballast shall have a minimum starting temperature of –20 degrees F and maximum operating ambient of 55 degrees C..
- Ballast is capable of operating pulse start metal halide or ceramic metal halide lamp types.
- Five-Year Fixture Failure Warranty.
- Meets requirements of FCC rules and regulations, Title 47 CFR part 18 for nonconsumer equipment.

Dimming Ballast

- The ballast is supplied with a violet (+) and gray (-) wire for dimming control connections.
- Ballast dims to fifty percent of rated lamp wattage.
- Dimming voltage is 0-10V where 10V is high wattage and 0 is fifty percent of rated lamp wattage.
- Ballast operates the lamp at high wattage for 15 minutes at start up.
- Ballast operates lamp at high wattage for fifteen minutes after operating in dim mode for twenty-four hours.

Exclusionary base socket is available for use with Metal Halide lamps in open fixtures to comply with NEC 2005 regulations (GELS "S" Option).
Customer should consult or review local electrical codes for compliance.

All Electronic devices are susceptible to transient voltage spikes. For facilities where the lighting circuits are not protected from transient voltage spikes a (TVSS) Transient Voltage Surge Suppression system is recommended. To protect the NuVation ballast a TVS protection system must be able to suppress a 3000V ring wave as described in ANSI/IEEE C62.41 B1.

INPUT WATTAGE TABLE

Lamp Wattage	Line Voltage	Input Watts
400	277	428
400	240	432
400	208	435
350	277	377
350	240	380
350	208	383
320	277	346
320	240	347
320	208	349
250	277	276
250	240	272
250	208	271

GPE GHB® PRISMATIC LUMINAIRE (Acrylic)

NuVation™ Electronic Ballast

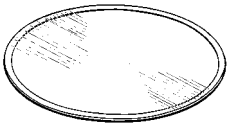
High Bay, Open — *Bracket Mount Optical Series*

General Die-Cast Housing

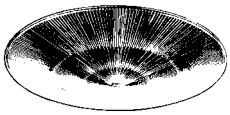
Lens Assemblies

For Acrylic/Polycarbonate opticals only (Order separately)

- **EAL2-GHBP**
  Clear acrylic lens for 22-in. (559mm) optical
  (40°C max. ambient on 400 watt fixtures)
- **EAL6-GHBP**
  Clear acrylic lens for 16-in (406mm) optical
  (40°C max. ambient on 250 watt fixtures)
- **EAPL2-GHBP**
  Clear acrylic prismatic conical lens for 22-in (559mm) optical
  (40°C max. ambient on 400 watt fixtures)
- **EAPL6-GHBP**
  Clear acrylic prismatic conical lens for 16-inch optical
  (40°C maximum ambient on 250W fixtures)
- **EARL6-GHBP**
  Clear prismatic drop lens for 16-inch optical
  (40°C maximum ambient on 250W fixtures)



E*L2-
E*L6-



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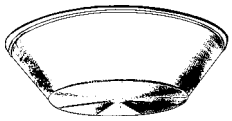
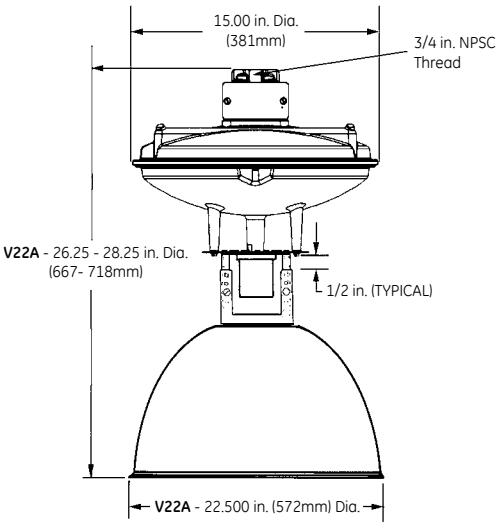
E*PL6-



E*RL6-

FIXTURE DIMENSIONS



DATA

Approximate Net Weight	**lbs**	**kgs**
Ballast and Optical	**22-32**	**10-15**

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
V4 OPTICAL - Open & Ventilated 14in. Prismatic Glass Reflector MH requires "S" option EX39 base socket							
350,400	MH,P	55	1.5	9	450161	V4	NA
350,400	MH,P	55	1.8	7	450159	V4	NA
350,400	MH,P	55	2.0	5	450157	V4	NA
350,400, Coated	MH,P	55	1.3	8	450169	V4	NA
350,400, Coated	MH,P	55	1.5	6	450167	V4	NA
350,400, Coated	MH,P	55	2.0	2	450163	V4	NA
250	HPS	55	1.5	3	450175	V4	NA
250	HPS	55	1.8	2	450177	V4	NA
400	HPS	55	1.7	2	450153	V4	NA
D4 OPTICAL - Enclosed & Ventilated 14in. Prismatic Glass Reflector with Flat Glass Lens							
250, 320 (ED28)	MH, P	55	1.4	2	450196	D4	NA
250, 320 (ED28) Coated	MH, P	55	1.3	2	450207	D4	NA
350,400, Coated	MH, P	55	1.3	9	450190	D4	NA
350,400, Coated	MH, P	55	1.7	5	450187	D4	NA
350,400, Coated	MH, P	55	1.9	3	450185	D4	NA
V6 OPTICAL - Open & Ventilated 16in. Acrylic Prismatic Reflector MH requires "S" option EX39 base socket							
350, 400	MH,P	40	2.0	3	179381	V6	NA
350, 400, Coated	MH,P	40	1.9	3	179382	V6	NA
250	HPS	55	1.7	4	178415	V6	NA
250	HPS	55	1.9	5	178413	V6	NA
V6 OPTICAL - Ventilated 16in. Acrylic Prismatic Reflector with E*L6-GHBP Flat Polymeric Lens MH requires "S" option EX39 base socket**							
250	MH, P	40	1.5	4	179274	V6	NA
250	MH, P	40	1.7	5	179271	V6	NA
250, Coated	MH, P	40	1.5	4	179273	V6	NA
250, Coated	MH, P	40	1.7	5	179272	V6	NA
V6 OPTICAL - Ventilated 16in. Acrylic with E*PL6-GHBP Prismatic Conical Polymeric Lens MH requires "S" option EX39 base socket**							
175	MH, P	40	1.5	3	450246	V6	NA
175	MH, P	40	1.7	4	450247	V6	NA
175	MH, P	40	2.0	5	450248	V6	NA
175, Coated	MH, P	40	1.5	3	450226	V6	NA
175, Coated	MH, P	40	1.7	4	450229	V6	NA
175, Coated	MH, P	40	1.9	5	450232	V6	NA
250	MH, P	40	1.5	3	450237	V6	NA
250	MH, P	40	1.7	4	450238	V6	NA
250	MH, P	40	2.0	5	450239	V6	NA
250, Coated	MH, P	40	1.4	3	450217	V6	NA
250, Coated	MH, P	40	1.6	4	450220	V6	NA
250, Coated	MH, P	40	1.8	5	450223	V6	NA

**** Ordered separately**

*** Select Lens material (Example EAL2-GHBP = Standard Acrylic)**

Note 1: For Advanced "ST" HID Acrylic, use corresponding Acrylic Photometry Code listed in Photometric Section and associated photometric data.

Note 2: See page T-34 for Alternative Material explanation.

PHOTOMETRIC SELECTION TABLE

Wattage	Light Source	Max Temp	Spacing Criteria	Reflect. Position	Photometric Curve	Optical Code	Photometry Code
V6 OPTICAL - Ventilated 16in. Acrylic with E*RL6-GHBP Drop Polymeric Lens MH requires "S" option EX39 base socket**							
250	MH, P	40	1.3	3	450240	V6	NA
250	MH, P	40	1.5	4	450241	V6	NA
250	MH, P	40	1.7	5	450242	V6	NA
250, Coated	MH, P	40	1.2	3	450218	V6	NA
250, Coated	MH, P	40	1.4	4	450221	V6	NA
250, Coated	MH, P	40	1.6	5	450224	V6	NA
V2 OPTICAL - Open & Ventilated 22in. Prismatic Acrylic Reflector MH requires "S" option EX39 base socket							
250, 320 (ED28)	MH, P	55	0.8	5	451942	V2	NA
250, 320 (ED28) Coated	MH	55	1.0	5	451943	V2	NA
350,400	MH, P	55	1.5	5	451948	V2	NA
350,400, Coated	MH	55	1.4	5	451949	V2	NA
400	HPS	55	0.9	4	451954	V2	NA
400	HPS	55	1.2	5	451955	V2	NA
V2 OPTICAL - Ventilated 22in. Prismatic Acrylic Reflector with E*PL2-GHBP Prismatic Conical Polymeric Lens MH requires "S" option EX39 base socket**							
250, 320 (ED28)	MH, P	40	1.0	3	451946	V2	NA
250, 320 (ED28) Coated	MH	40	1.0	3	451947	V2	NA
350,400	MH, P	40	1.5	4	451952	V2	NA
350,400 Coated	MH	40	1.5	5	451953	V2	NA
V2 OPTICAL - Ventilated 22in. Prismatic Acrylic Reflector with E*L2-GHBP Flat Clear Polymeric Lens MH requires "S" option EX39 base socket**							
250, 320 (ED28)	MH, P	40	0.8	5	451944	V2	NA
350,400	MH, P	40	1.5	4	451950	V2	NA
350,400, Coated	MH	40	1.4	5	451951	V2	NA

**** Ordered separately**

*** Select Lens material (Example EAL2-GHBP = Standard Acrylic)**

NOTES

See explanation on "Optical Flexibility" Page I-5. See References.

REFERENCES

See Page I-104 for start of Accessories.
See Page I-117 for Component Ordering Logic.
See Page I-129 for Explanation of Options and Other Terms Used.