



enviroguard[™]
princeton[™]
series

GUTH
LIGHTING FOR
DEMANDING
ENVIRONMENTS

Guth Lighting is a Philips group brand

PHILIPS



Colors Galore

Princeton™ canopies and aluminum reflectors are available in the following Tiger Drylac Powder Coatings:

- Interior
- Metallic
- Exterior
- Special Effect
- Series 39

Design flexibility gives commercial lighting more class.



22"-25" Louver



16" Deep Louver



12" Louver

Sized to light any area.

Princeton's™ assortment of sizes allows the fixture to be "in-scale" with any room or ceiling height. You can theme a facility. Dress the fixture up and down. Use the same lamp for each application. Upkeep and maintenance costs can be greatly reduced.



25"



22"



16"



12"

Create a custom environment for every room.

Reflector color and material choices can create a signature look. Cool-Lux is translucent milk-white. Soft-Glo™ looks like etched glass. Both offer complete lamp obscuration. Custom painted aluminum or tinted acrylic can blend into or add contrast to any area.



Cool-Lux



Soft-Glo™



Saturated Color



Tinted Acrylic



Anodized Aluminum

Mesa, Arizona - Noah Webster Basic School

This new elementary school teaches grades K through 6 to 965 students. The large multi-purpose room is used for sports, music, meetings and recitals. The fixture has an acrylic reflector and 3 - 85 watt compact fluorescent lamps to provide outstanding visibility on any horizontal or vertical surface. The lamps provide 20,000 life, 86% color accuracy, instant on after a power interruption and silent operation. The fixture is protected by a wire guard, locking sockets and the 35° swivel hanger. Lamp switching allows three light levels to accommodate any activity, minimizes energy and eliminates the need for emergency maintenance if a lamp fails.



Hallowell, Maine – Hubbard Free Library

This Victorian Gothic structure erected in 1880 was the first public library in Maine. The 114' rough hammered granite building was designed by Hallowell architect Alexander Currier to resemble an English village church of the period. Cross axial additions in 1894 and 1897 continued the ecclesiastical theme giving the building its final shape of a Latin Cross. The dimmable and silent electronic 320 Metal Halide system and Soft-Glo™ reflectors provide excellent vertical footcandles for reading and highlight the building's open truss ceiling, frescos and stained glass windows. The lighting works indoors and out to enhance the town's total environment.



Specifications and features

General

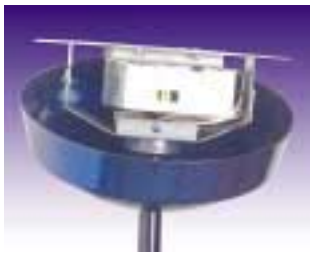
- Architectural Lowmount family in 4 sizes
- Aluminum or Acrylic Prismatic optics
- Open, enclosed or louvered optics
- Smooth, ridge free design provides easy cleaning
- Optional finishes and colors
- Incandescent, single and multiple Fluorescent or HID lamping

Construction

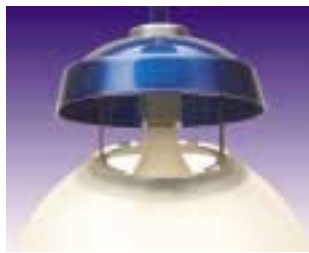
- Corrosion resistant components
- Non-yellowing high temperature acrylic reflectors
- Galvanized torsion springs allow tool free relamping
- Bottom closure's smooth outer surface minimizes dirt accumulation

Optical

- Clear prismatic reflector provides up to 95% efficiency and 25% uplight
- Soft-Glo™ prismatic reflectors and lens provide an etched glass appearance with less than 5% loss in efficiency. Available with all lamps and sizes
- Cool-lux prismatic reflector completely hides the lamp with 88% efficiency
- Aluminum painted or anodized reflector maximizes 0 to 60 degree output
- Optional conical prismatic bottom closure with internal source enlarging Blondel flutes hides the lamp and minimizes glare
- Optional 1.5" and 2.5" louvers add class and hide the lamp at normal viewing angles



Easy ballast and maintenance.



Easy lamp maintenance.

Mounting

- 35 degree swivel canopy
- Listed for insulated ceiling

Electrical

- Fluorescent ballasts: electronic with internal fusing, low harmonic distortion, lamp guard circuit and optional dimming where available
- 70-400 watt HID Core and Coil: high power factor pulse start constant wattage designs
- 70-100 watt HID Electronic: provides internal fusing, quiet operation, ballast factor of 1 and end of life lamp protection. Recommended for all ceramic lamps
- 150-400 watt HID Electronic: provides internal fusing, quiet operation, ballast factor of 1, end of life lamp protection and continuous 0-10 volt dimming to 50% power
- Induction lamps: available on special order, consult factory
- Battery backup: use Guth's GPCF ninety minute compact inverter

Listings

- Damp Location
- 40° C Ambients
- Insulated Ceilings

Applications

- Retail
- Restaurants
- Commercial
- Classrooms
- Gymnasiums
- Atriums
- Hallways
- Stairwells
- Band Rooms
- Churches
- Assembly Halls
- Multipurpose Rooms
- Offices
- Historic Buildings
- Museums
- Auto Dealerships

Lamp System Performance Comparison

LAMP	42W	70W	120W	165W	100MH	150MH	210MH	315MH	400MH	400MH
TYPE	CFL	CFL	CFL	Induction	Ceramic	Ceramic	Ceramic	Ceramic	Quartz	Quartz
BALLAST	Electr	Electr	Electr	Electr	Electr	Electr	Electr	Electr	Electr	CWA
WATTS	46	75	136	165	113	166	235	340	430	455
LUMENS	3200	5,200	9,000	12,000	9,000	13,000	24,150	37,800	42,600	42,600
DESIGN LUMENS	2,720	4,470	7,740	10,200	6,750	9,750	23,100	34,650	36,636	29,820
CRI	82	82	82	80	92	92	90	90	65	65
DIM	Yes	Yes	No	No	No	Yes	Yes	Yes	Yes	Yes
VOLT	120/277	120/277	120/277	240/277	120/277	120/277	200/277	200/277	200/277	Any
REMOTE	6'	6'	15'	1'	6'	5'	TBD	TBD	15'	100'
LIFE	12K	12K	20K	100K	20K	20K	20K	20K	20+K	20K

Ordering information

PP - E - 2 - 3 - I - 350E

SERIES

PA - Aluminum
PP - Acrylic

ENCLOSURE

E - Enclosed
O - Open

SIZES

0 - 12"
1 - 16"
2 - 22"
5 - 25"

REFLECTOR

1 - White Aluminum
2 - Anodized Aluminum
3 - Soft-Glo™ Acrylic
4 - Clear Acrylic
5 - Custom Finish
6 - Hi-Impact Acrylic
7 - Cool-Lux

CANOPIES

1 - White
2 - Anodized
3 - Custom Finish

LAMPS

12 INCH

1TT - 1 LT 26,32,42W PL-T
2TT - 2 LT 26,32,42W PL-T
157Q-1LT57W QBX
70E - Electronic 70W MH
100E - Electronic 100 MH

16 INCH

2TT - 2 LT 26,32,42W PL-T
3TT - 3 LT 26,32,42W PL-T
4TT - 4 LT 26,32,42W PL-T
157Q - 1LT57W QBX
257Q - 2LT57W QBX
1HT - 1 LT 60,85W PL-H
150E - Electronic 150MH
2HT - 2 LT 60,85 PL-H
175M** - 175W MH
175P** - 175W Pulse Start MH
175E - Electronic 175 MH PS

22 & 25 INCH

2HT - 2 LT 60,85 PL-H
3HT - 3 LT 60,85 PL-H
270Q - 2LT70W QBX
370Q - 3LT70W QBX
470Q - 4LT70W QBX
1120HT - 1 LT 120W PL-H
2120HT - 2 LT 120W PL-H
3120HT - 3 LT 120W PL-H
210E - Electronic 210 MH
315E - Electronic 315 MH
320E - Electronic 320W MH PS
350E - Electronic 350W MH PS
400E - Electronic 400W MH PS
320P - 320W Pulse Start MH
350P - 350W Pulse Start MH
400M - 400W MH
400P - 400W Pulse Start MH

U

VOLTAGE

1 - 120 V
2 - 277 V
M - Multi-tap

U - 200-300V
(320-400W electronic)

S24

STEM LENGTH

12" - S12
18" - S18
24" - S24
48" - S48
X" - S__ (specify)

Options

Electrical / Optical

"/SSF" - Slow Blow Fuse
"CKT" - Multi Circuit Switching (consult factory)
"DIM" - Dimming - consult factory
"/SL" - 22" glued lens (std with 12"/16")
"/SGENC" - Soft-Glo™ bottom lens
"/L" - Lamp included

Custom Finishes (Consult Factory)

Paint - Tiger Drylac - optional
Reflector Color - plastic, aluminum

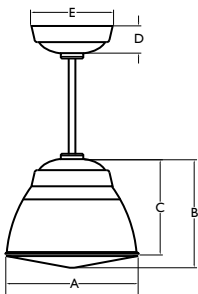
Safety

"/GPCF84" - 85W remote inverter
"/EISL***" - delay standby quartz
(320-400w electronic)
"/DISL***" - delay standby quartz (22" only)
"/ISL***" - standby quartz (16", 22" only)
"/IE" - quartz socket (120V-16", 22" only)
"/BRC" - safety chain and hanger
"/WVG" - wire guard

Louvers (parabolic)

"/LVR12" - 12" Reflector (1-1/2" deep)
"/LVR16S" - 16" Reflector (1-1/2" deep)
"/LVR16D" - 16" Reflector (2-1/2" deep)
(157Q, 257Q, 2TT only)
"/LVR22" - 22" Reflector (2-1/2" deep)
"/LVR25" - 25" Reflector (2-1/2" deep)
***100 watt max with acrylic reflectors

Dimensions



Note: 12" and 16" reflector lens are factory glued.
22"-25" use clips. See "SL" option.

** Requires 22" canopy

Refl. Dia.	Dim A	Dim B	Dim C	Dim D	Dim E
12"	12.438	10.100	8.900	2.550	7.600
16"	16.125	14.530	12.900	3.400	10.300
22"	22.250	19.940	17.600	5.900	11.960
25"	25.375	21.750	19.000	5.900	11.960

Project Name:

Type	Catalogue Number	Lamp	Comments

Metal Halide Note:

- Lamp manufacturers state "type E and S type lamps must be turned off for 15 minutes each week to prevent a non-passive failure"
- Type O rated lamps have no turn-off requirement.
An optional pink socket will only accept O rated lamps.



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