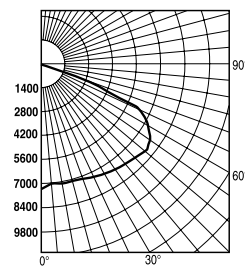


photo-metrics

400W 22" Open White Aluminum Reflector ELA-02-1 1400M

Ceiling Refl.	80%			70%			50%		
	50	30	10	50	30	10	50	30	10
WALL Refl.	50	30	10	50	30	10	50	30	10
RCR	20% Effective Floor Cavity Reflectance								
1	.82	.78	.75	.80	.77	.74	.76	.74	.71
2	.70	.64	.60	.69	.63	.59	.66	.61	.57
3	.60	.54	.48	.59	.53	.48	.57	.51	.47
4	.53	.45	.39	.52	.45	.39	.49	.43	.39
5	.46	.39	.33	.45	.38	.33	.44	.37	.32
6	.41	.33	.28	.40	.33	.28	.39	.32	.28
7	.37	.29	.24	.36	.29	.24	.35	.28	.24
8	.33	.26	.21	.33	.26	.21	.31	.25	.21
9	.30	.23	.19	.30	.23	.19	.29	.23	.18
10	.28	.21	.17	.27	.21	.17	.26	.20	.16

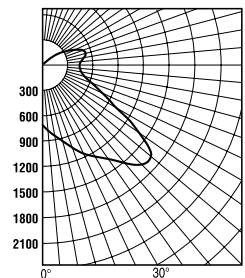


Report No.
P11452-10341

S/MH Ratio 1.58
Total Lamp Lumens 40,000
Fixture Efficiency 78%

100W MH Coated 12" Enclosed Acrylic ELP-W0-4 100M

Ceiling Refl.	80%			70%			50%		
	50	30	10	50	30	10	50	30	10
WALL Refl.	50	30	10	50	30	10	50	30	10
RCR	20% Effective Floor Cavity Reflectance								
1	.83	.79	.75	.79	.76	.72	.72	.69	.66
2	.72	.65	.60	.68	.63	.58	.62	.58	.54
3	.62	.55	.49	.60	.53	.47	.54	.49	.44
4	.54	.47	.41	.52	.45	.39	.47	.41	.37
5	.47	.39	.33	.45	.38	.32	.41	.35	.30
6	.42	.34	.28	.40	.32	.27	.36	.30	.25
7	.37	.29	.23	.35	.28	.22	.32	.26	.21
8	.32	.25	.19	.31	.24	.19	.28	.22	.17
9	.29	.21	.16	.27	.20	.16	.25	.19	.14
10	.26	.19	.14	.25	.18	.13	.22	.16	.12

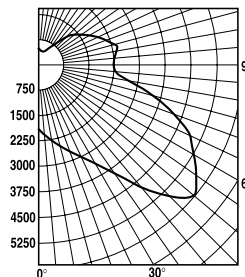


Report No.
P11471-4

S/MH Ratio 2.6
Total Lamp Lumens 9,000
Fixture Efficiency 86.2%

400W MH Coated 25" Enclosed Acrylic ELP-W5-4 1400M

Ceiling Refl.	80%			50%			10%		
	50	30	10	50	30	10	50	30	10
WALL Refl.	50	30	10	50	30	10	50	30	10
RCR	20% Effective Floor Cavity Reflectance								
1	.89	.84	.79	.75	.71	.68	.58	.56	.54
2	.75	.67	.60	.62	.57	.52	.48	.45	.42
3	.64	.55	.48	.53	.47	.41	.41	.37	.33
4	.55	.46	.39	.46	.39	.33	.35	.31	.27
5	.47	.38	.31	.39	.32	.26	.30	.25	.21
6	.41	.32	.25	.34	.27	.22	.26	.21	.17
7	.36	.27	.21	.30	.23	.18	.23	.18	.14
8	.32	.24	.18	.27	.20	.15	.20	.15	.11
9	.29	.20	.15	.24	.17	.12	.18	.13	.09
10	.26	.18	.13	.21	.15	.10	.16	.11	.08

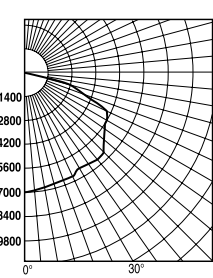


Report No.
P11464

S/MH Ratio 3.1: Adjacent
2.1: Diagonal
Total Lamp Lumens 40,000
Fixture Efficiency 95.4%
Photometry for both the high pressure hosedown and wet location.

400W Clear MH 22" Enclosed White Aluminum ELA-W2-1 1400M

Ceiling Refl.	80%			70%			50%		
	50	30	10	50	30	10	50	30	10
WALL Refl.	50	30	10	50	30	10	50	30	10
RCR	20% Effective Floor Cavity Reflectance								
1	.73	.69	.66	.71	.68	.65	.68	.65	.63
2	.62	.57	.52	.61	.56	.52	.58	.54	.50
3	.54	.47	.42	.52	.47	.42	.50	.45	.41
4	.47	.40	.35	.46	.39	.34	.44	.38	.34
5	.41	.34	.29	.40	.34	.29	.39	.33	.29
6	.37	.30	.25	.36	.30	.25	.35	.29	.25
7	.33	.26	.22	.32	.26	.22	.31	.26	.21
8	.30	.23	.19	.29	.23	.19	.28	.23	.19
9	.27	.21	.17	.27	.21	.17	.26	.21	.17
10	.25	.19	.15	.25	.19	.15	.24	.19	.15

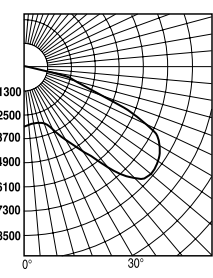


Report No.
P11452-10340

S/MH Ratio 1.43
Total Lamp Lumens 40,000
Fixture Efficiency 71%

400W Clear MH 25" Anodized Aluminum Enclosed ELA-W2-2 1-400M-1

Ceiling Refl.	80%			50%			10%		
	50	30	10	50	30	10	50	30	10
WALL Refl.	50	30	10	50	30	10	50	30	10
RCR	20% Effective Floor Cavity Reflectance								
1	.77	.73	.70	.71	.68	.66	.65	.63	.61
2	.66	.60	.55	.61	.56	.53	.55	.52	.49
3	.56	.49	.44	.52	.47	.42	.47	.44	.40
4	.48	.41	.35	.45	.39	.34	.41	.36	.32
5	.41	.33	.27	.38	.31	.26	.34	.29	.25
6	.35	.27	.22	.32	.26	.21	.29	.24	.20
7	.30	.23	.18	.28	.22	.17	.25	.20	.16
8	.26	.19	.14	.24	.18	.14	.22	.17	.13
9	.23	.16	.11	.21	.15	.11	.19	.14	.10
10	.21	.14	.09	.19	.13	.09	.17	.12	.09

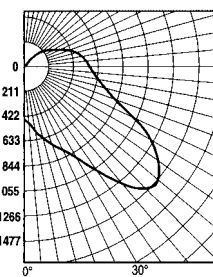


Report No.
P11452-12

S/MH Ratio 2.9:1
Total Lamp Lumens 40,000
Fixture Efficiency 75.3%

4-PL 42W 16" Open Acrylic ELP-O1-4-1-442T

Ceiling Refl.	80%			70%			50%		
	50	30	10	50	30	10	50	30	10
WALL Refl.	50	30	10	50	30	10	50	30	10
RCR	20% Effective Floor Cavity Reflectance								
1	.76	.72	.67	.65	.62	.59	.48	.48	.48
2	.64	.57	.52	.55	.50	.45	.36	.36	.36
3	.55	.47	.41	.46	.40	.36	.28	.28	.28
4	.47	.39	.33	.40	.34	.29	.22	.22	.22
5	.41	.33	.27	.35	.28	.24	.18	.18	.18
6	.36	.28	.22	.31	.24	.20	.15	.15	.15
7	.32	.24	.19	.27	.21	.17	.12	.12	.12
8	.29	.21	.16	.25	.19	.14	.10	.10	.10
9	.26	.19	.14	.22	.16	.12	.9	.9	.9
10	.24	.17	.12	.20	.15	.11	.8	.8	.8



Report No.
P-11476-10449.0

S/MH Ratio 3.1: Adjacent
2.2: Diagonal
Total Lamp Lumens 12,800
Fixture Efficiency 82.1%
Note: Optional Soft-Glo acrylic reflector efficiency = 78%.



ENVIROGUARD™ LOW MOUNT
Sealed for High Pressure Hosedown

enviroguard
FOR FOOD PROCESSING

GUTH

LIGHTING FOR DEMANDING ENVIRONMENTS

Guth utilized the services of U.L. and ETL for listing products. Specifications and data are subject to change without notice.

GUTH
LIGHTING FOR
DEMANDING
ENVIRONMENTS

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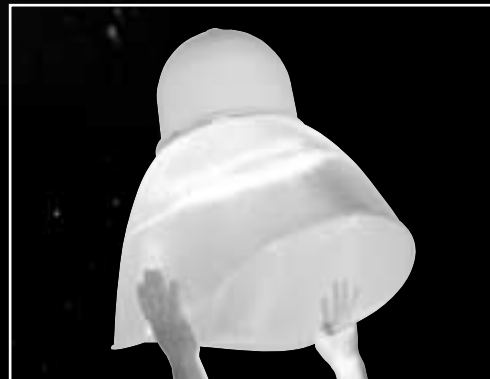
GUTH
a GENLYTE company

enviroguard™

FOR FOOD PROCESSING



Low brightness lens is ideal for 25" spun reflector and up to 450 watt lamp.



Hi-impact acrylic is non-yellowing and resists breakage.



State of the art compression machine ensures integrity of seal for hosedown luminaires.

New Enviroguard™ Low Mount

- Expressly designed to meet stringent requirements found in food processing environments
- Totally sealed and gasketed
- Withstands high pressure hosedown
- No flat surfaces to collect dirt and debris
- Virtually no external hardware for contaminants to cling
- Toolless maintenance
- Four reflector sizes for optimal versatility
- Painted, non-stick finish or anodized finish
- Uses new high color Ceramic and Pulse Start Metal Halide
- Optional enclosed wet and open damp designs for flexibility and reduced cost
- Certified by National Sanitation Foundation International

enviroguard, goes anywhere

enviroguard ordering information

Sizes



25"



22"



16"



12"

Prismatic clear acrylic reflectors with painted top.

Reflectors



Open 22" aluminum reflector and wireguard for non-food areas.



Soft-Glo™ acrylic optics reduces glare with less than 5% reduction in output.



Anodized reflector and ballast resist blood and chemical attack.

Features



Ballast cover is easily positioned above hook or stem allowing access to components.



Three galvanized springs provide lamp access, solid gasket compression and stability for 22", 25" high pressure hosedown.



Non-stick finish sheds contaminants, resists chemicals, cleans easily.

Mountings



Hose down loop cord and quick disconnect.



Damp location loop cord and plug.

Fluorescents



Compact fluorescent fixture with optional built-in battery back-up.



Smooth lens exterior is easy to clean.

ELP - W 0 - 4 1 232T 1

SERIES

ELP - Prismatic Acrylic
ELA - Aluminum

ENCLOSURE

W - Enclosed Sealed Wet
E - Enclosed Damp
O - Open Damp
R - Open Wet

SIZE

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

REFLECTOR

1 - White Aluminum
2 - Anodized Aluminum
3 - Soft-Glo Acrylic
4 - Clear Prismatic Acrylic
6 - Hi Impact Acrylic

BALLAST COVER TYPE

1 - White Aluminum
2 - Anodized Aluminum
7 - Non-Stick Finish (FDA Approved)

VOLTAGE

1 - 120
2 - 277 D - Dual HID 120/277
3 - 347 M - Multi HID

LAMP WATTAGE & TYPE

12 INCH
142T - 1 LT 42W Triple Tube
242T - 2 LT 42W Triple Tube
160HT - 1 LT 60W PLH
100I - 1 LT 100W Incandescent
050M - 1 LT 50W Metal Halide
070M - 1 LT 70W Metal Halide
100M - 1 LT 100W Metal Halide

16 INCH

342T - 3 LT 42 watt Triple Tube
442T - 4 LT 42 watt Triple Tube
285HT - 2 LT 60, 85 watt PLH
150H - 150 watt H.P.S.
175M - 175 watt M.H.
175 P - 175 Pulse Start M.H.
250I - Incandescent

22 and 25 INCH

2120HT - 2 LT 120 watt PLH
250H - 250 watt H.P.S.
250M - 250 watt M.H.
250P - 250 Pulse Start M.H.
320P - 320 Pulse Start M.H.
350P - 350 Pulse Start M.H.
400E - 320 to 400 Pulse Start M.H. with electronic dimming ballast*
400H - 400 watt H.P.S.
400M - 400 watt M.H.
400P - 400 Pulse Start M.H.
450P - 450 Pulse Start M.H.

* See Enviroguard E-Pod

Notes:

1. 22" and 25" HID with Hose, NSF or SL options have lens factory installed. Otherwise field installed.
2. All 12" and 16" have lens factory installed.
3. 16", 22", 25" pendant HID require 9" ceiling clearance for wiring. See options JB, LH.

Options

Electrical

/SSF - Slow Blow Fuse - Fluorescent and HID
/FF - Fixture Fuse - Fluorescent
/BL - Bi-level HID Ballast - consult factory
/CKT - 2 Circuit Fluorescent Wiring
/DIM - Dimming Fluorescent Ballast - consult factory

Listings

/NSF - NSF International Label (with "W" Enclosure)
/HOSE - Suitable for Hosedown Label (with "W" Enclosure)

Mountings

/LHCP-120" - Loop Hanger, 6' White Cord and Molded Plug
/LHCP-277" - Loop Hanger, 6' White Cord and Twist Lock Plug
/LH-PT" - Loop Hanger Cord Set with 3' Pigtales
/WLP" - 6' Cord, Hosedown Plug and Receptacle
/JB" - J-box kit (fixture mounts 5" from ceiling)

Optics

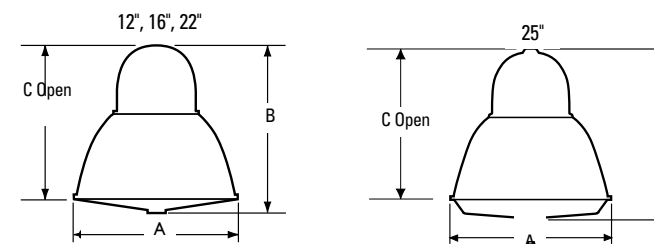
/SL - Factory installed lens on wet/damp 22"/25" HID

Safety

/BEF - 90 min. Fluorescent Battery Back-up Bodine CF-94*
/ISL - Instant standby Quartz (16", 22" and 25" only)
/DISL - Delay Instant Standby Quartz (22" and 25" only)
/IE - Emergency Quartz Socket 120V only (16", 22" and 25" only)
/BRC - Safety Chain and Hanger
/AWG - Wire Guard

* 12"/16" unit - 1 or 3 lamp only (25°C listed if internal)

Dimensions



REFL. DIA	DIM. A	DIM. B	DIM. C
12" DIA.	12 7/16"	14 1/2"	13 3/8"
16" DIA.	16 1/8"	19"	17 5/8"
22" DIA.	22 1/4"	24"	22"
25" DIA.	25 3/8"	25 3/4"	23"

Metal Halide Note:

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

Guth utilized the services of UL and ETL for listing products. Specifications and data are subject to change without notice.

Project Name:

Type	Catalogue Number	Lamp	Comments

specifications and features

performance specification

GENERAL

- Low mount family in 4 sizes
- Painted, Anodized Aluminum or Acrylic Prismatic Optics
- Open, enclosed, wet location or hose-down construction
- Smooth, ridge free design provides easy cleaning
- Incandescent, single and multiple Fluorescent or HID lamping

CONSTRUCTION

- Corrosion resistant components
- Non-yellowing high temperature acrylic reflectors
- Tool free relamping
- Bottom closure's smooth outer surface minimizes dirt accumulation
- Silicone gasketed reflector for hosedown and wet location
- Heavy duty galvanized torsion springs, 3 on 22"/25" fixtures, 2 on 12"/16"
- provide a tight seal, even gasket compression and stability during hosedown
- Painted, Anodized or Non-Stick Finish ballast cover

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.
- 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
- Open bottom optics available with damp or wet location label



Easy installation with pendant or hook.



Gasket seal keeps contaminants out, allows for high pressure hosedown and wet location.

LAMP CHOICES

	Wattage	Lumens/Watt	Lamp Lumen Depreciation	Lamp Life	Starting Temp	Re-strike Time	System Noise	Lamp Color Kelvin Temp	Color Rendering Index (CRI)
Filament Incandescent	300	15-25	-0-	2000 Hours	-30°F	Instant	None	3000°K	100%
Tungsten Halogen	300	15-25	-0-	3000 Hours	-30°F	Instant	None	3000°K	100%
Compact Fluorescent *	26-120	65-75	15%	10-20,000 Hours	0°F	Instant	None	3000°K 3500°K 4100°K	82%
Metal Halide	50-400	65-100	30% +	10-20,000 Hours	-20°F	5-10 Minutes	30db Std	4000°K	65%
Pulse Start Metal Halide	150-450	65-110	20% +	12-30,000 Hours	-30°F	3-5 Minutes	30db Std	4000°K	65%
Ceramic Metal Halide (Master Color)	70-100 150-400 (2001)	70-90	20% +	12-30,000 Hours	-30°F	3-5 Minutes	30db Std	3000°K 4000°K	90+%
Induction ** (QL Lamp)	55 85 165	63-72	30% at 60K/Hours	100,000 Hours	-20°F	Instant	None	3000°K 4000°K	80+%

* Compact fluorescents with amalgam alloy provide at least 90% lumen output with ambient temperatures of 40-140°F.

** Induction Lamp - Power module excites fluorescent phosphors using a magnetic field to produce infrared energy. 10% failure rate at 60,000 hours. Electronic radiation is shielded. Output equivalent to 50, 70, 150 metal halide.

MOUNTING

- Standard Pendant mount: 3/4" conduit for 16" HID, 22" and 25" reflectors; 1/2" conduit for all 12" and 16" Fluorescent
- Loop hanger with damp location plug
- Loop hanger with wet location plug and receptacle
- Pendant mount for 16", 22" and 25" HID requires 9" of clearance from ceiling for wiring access
- 16", 22" and 25" HID fixtures with J-Box option (JB) mount 5" below ceiling

ELECTRICAL

- HID ballasts: HPF with CWA, Peak Lead or Pulse Start Design
- Fluorescent ballasts: electronic with low THD and lamp guard circuit
- Internal 90 minute battery pack with fluorescent fixtures
- Bi-Level HID with sensors (consult factory)
- Multiple fluorescents available for 1, 2 or 3 circuit wiring
- Optional 55C listed dimming 400 MH remote electronic ballast.

LISTINGS — U.S.A. and Canada

- Damp Location
- Wet Location
- NSF International
- 1200 PSI Hosedown by Independent Test Lab
- 40 degrees C listed for enclosed fixtures and fluorescent
- 55 degrees C listed for open 400 watt HID fixtures

APPLICATION BY FIXTURE TYPE

Hosedown		Wet Location	Damp Location
Bakeries	Meat Processing	Greenhouses	Assembly
Beverage	Pickles	Locker Rooms	Cold Storage
Confectionery	Poultry	Outdoors	Display Areas
Cheese	Processed Food	Supermarkets	Dry Storage
Dairy	Snack food	Swimming Pools	Loading Docks
Fruits	Vegetables	Treatment Plants	Packaging
Inspection Areas	Wineries	Wash-down Areas	Retail
Juices			Warehouses

MECHANICAL

The fixture shall be designed with a smooth vertical contour and no horizontal ridges to maximize cleanliness and maintainability. The ballast cover shall be corrosion resistant painted, anodized or non-stick finish aluminum. It shall have a precisely contoured lip at its base and up to 3 galvanized torsion springs to provide stability and completely sealed construction, when specified. Access for re-lamping will be tool-free.

The reflector shall be painted or anodized aluminum, or injection molded high temperature acrylic. The acrylic shall not turn yellow in normal operation. When specified, an acrylic prismatic bottom closure shall be provided. It will be factory installed on all 12" and 16" fixtures and on 22" and 25" reflectors with the Hosedown or /SL option. Other 22" and 25" enclosed fixtures will use field installed non-removable clips. Enclosed 22" fluorescent fixtures have a stainless steel clamp band.

PAINT

The paint finish shall consist of a five stage process of alkaline cleaning, iron phosphate pre-treatment and 2 mil coating with epoxy-polyester powder paint. The finish shall meet the requirements of ASTM B-117.

NON-STICK FINISH

The non-stick finish shall be an FDA approved industrial grade fluorocarbon cured onto the smooth aluminum surface. It shall provide excellent anti-stick and dielectric properties, high abrasion resistance, a low coefficient of friction and inertness to most chemicals. Continuous operating temperature shall be from -450° to 450°F. in indoor or outdoor applications.

HOSEDOWN

The fixture's reflector shall have a factory installed high temperature closed cell silicone gasket at the throat and a smooth conical prismatic lens bottom closure. The bottom lens shall be attached to the reflector with UL listed 90°C

glass reinforced acrylic adhesive. Surfaces shall be prepared and the adhesive compression sealed by machine to 3M specifications. The lens with either an acrylic or aluminum reflector shall have withstood a pull test of 165 pounds conducted by an independent test laboratory without failure.

The fixture shall have passed a 1200 PSI hosedown test conducted by an independent testing laboratory for 10 minutes from a distance of 4 feet using a nozzle of .067" orifice diameter, 30 degree dispersion and 3.5 gallon per minute flow rate.

OPTICAL

The optical system shall consist of a white aluminum, anodized aluminum, clear acrylic or "Soft-glo" beaded acrylic reflector with or without a bottom closure. The bottom closure shall have a conical shape and internal source enlarging Blondel flutes to hide the lamp image and reduce glare. A variety of photometric distributions shall provide either direct or direct/indirect illumination as specified. The clear acrylic reflector shall be up to 96% efficient. The fixture shall accommodate incandescent, single and multiple compact fluorescent, HID and induction lamps.

ELECTRICAL

The electrical components shall be high power factor with low harmonic distortion. Ballasts shall be heat sunk for cool operation and accessible for easy field maintenance. Fluorescent fixture emergency lighting shall be available from an integral 90 minute battery back-up with test switch and ready light. HID emergency shall be available with incandescent quartz standby lamps.

LISTINGS

The fixture shall be CETL listed for 40 degrees C and suitable for wet or damp locations as specified. ETL 55 degree C listing shall be available with open bottom luminaires with 400 watt lamps. NSF (National Sanitation Foundation) International certification is available on all sealed fixtures.