WALKER TERRACE

proposed lighting

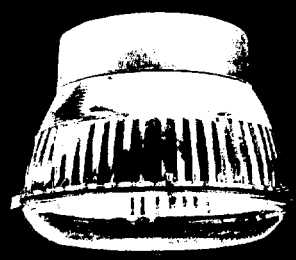
peter knuppel lighting design

PARKING STRUCTURE
PGL
SERIES

PGL4 / PGL1HP

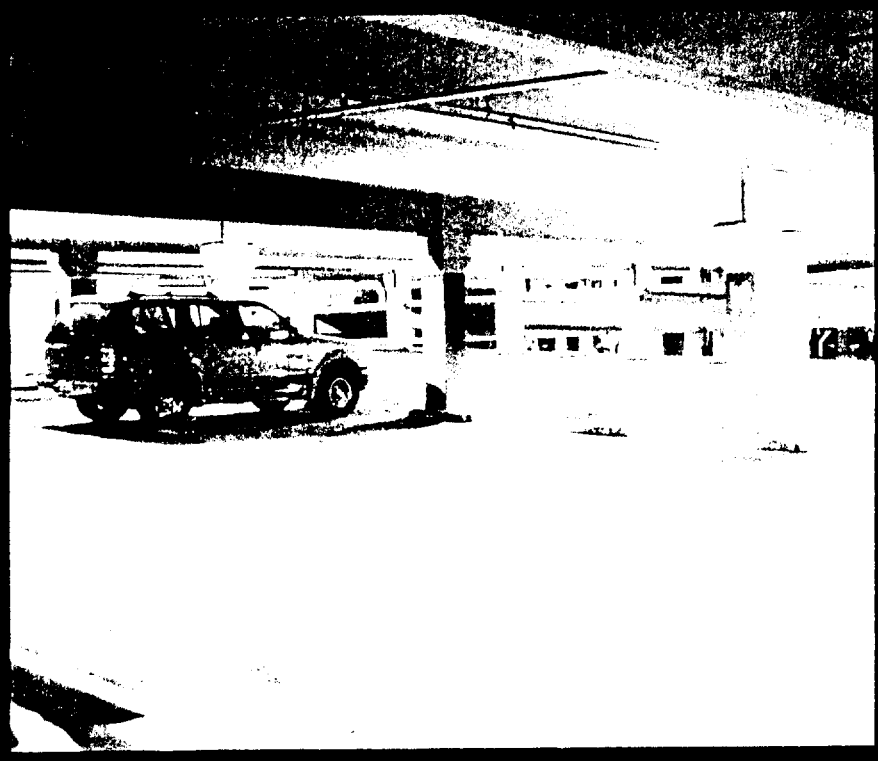
PARKING GARAGE LUMINAIRES

100 - 200 WATT H.I.D.
85 WATT I.F.



PGL4

PGL1HP



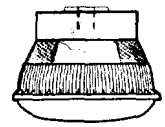
4

KIM LIGHTING

Luminaire Ordering Information

PGL4 / PGL1HP

PGL4
85 to 200 Watt
PGL1HP
85 to 200 Walt

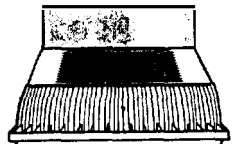


Ordering Example:

Fixture — Electrical Module — Options

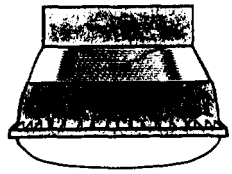
PGL4 / 175MH277 / DL I L I PB2 / QS

Fixture:



PGL4

Contemporary Garage Luminaire Die-cast aluminum ballast housing with Platinum Silver Super TGIC powder coat paint over chromate conversion coating, one piece clear optical housing Downlight optical reflector visible through optical housing material



PGLIHP

Classic Garage Luminaire Die-Last aluminum ballast housing with Light Gray Super TGIC powder coat paint over chromate conversion coating, one piece clear optical housing with Light Gray center band Downlight optical reflector concealed behind painted band

Electrical Module:

HPS = High Pressufe Sodium

MH = Metal Halide

IF = Induction Fuorescent

Lamp Watts	Lamp Type	Lint Volts
150	**HPS**	**277**

Lamp Mode (.amps by others)	Electrical Mode Cat No	Line Volts	Input Watts	Max Input Amps
100 Watt Clear	**100HPS120**	120	130	2 20
High Pressure Sodium	**100HPS208**	208	130	1 27
E 17 Medium Base	**100HPS240**	240	130	1 10
	100HPS277	277	130	0 85
ANSI Code S-54	**100HPS347**	347	130	0 70
150 Watt Clear	**150HPS120**	120	186	2.80
High Pressure Sodium	**150HPS208**	208	186	1 60
E-17 Medium Base	**150HPS240**	240	18b	1 40
	150HPS277	277	188	1 25
ANSI Code S-55	**150HPS347**	347	188	0 92
100 Watt Clear	**100MH120**	120	129	2 60
Metal Halide	**100MH208**	208	129	1 50
ED-17 Medium Base	**100MH240**	240	129	1 30
	100MH277	277	129	1 15
ANSI Code M-90	**100MH347**	347	129	0 90
150 Watt Clear	**150MH120**	120	185	3.65
Metal Halide	**150MH208**	208	185	2 10
ED-17 Medium Base	**150MH240**	240	185	1 80
	150MH277	277	185	1.58
ANSI Code M-102	**150MH347**	347	185	1.25
175 Watt Clear	**175MH120**	120	215	1 80
Metal Halide	**175MH208**	208	215	1.04
ED-17 Mediurn Base	**175MH240**	240	215	0.90
	175MH277	277	215	0 78
ANSI Code M-57	**175MH347**	347	215	0 65
200 Wart Clear	**200MH120**	120	215	2 00
Metal Halide	**200MH208**	208	215	1 20
ED-17 Medium Base	**200MH240**	240	215	1 00
	200MH277	277	215	0 90
ANSI Code M-136	**200MH347**	347	215	0.70
85 Watt	**85IF120**	120	86	0 72
Induction Fluorescent	**85IF208**	208	86	0 4%
	85IF240	240	86	0 36
	85IF277	277	90	3 35

Optional Narrow Downlight Optics:

Cat No **DL-N**

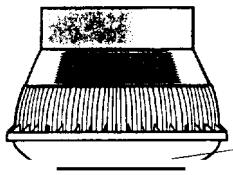
Two piece hydroformed aluminum reflector with Alzak finish Reflector fills optical housing and provides minimal uplight distribution Symmetric downlight distribution is narrower than standard symmetric pattern, with increased intensity

Optional Wide Downlight Optics:

Cat No **DL-W**

Two piece hydroformed aluminum reflector with Alzak finish Retlector fills optical housing and provides minimal uplight distribution. Symmetric downlighl Uistribution is similar to standard symmetric pattern, with increased intensity

Optional Polycarbonate Downlight Lens:

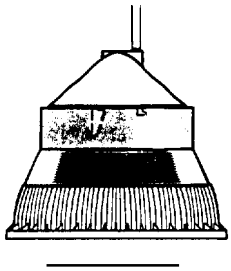


Cat No **L**

One piece clear injection molded UV stabilized polycarbonate Downlight Lens in place of standard acrylic

CAUTION: Use only wtieri fixture vandalism is anticipated within the parking garage Service life is reduced by UV discoloration from metal halide lamps High Pressure Sod um lamps are recommended to promote full service life

Optional Balanced Pendant J-Box and Bird Shroud:



Cat No **PB2**

Cast aluminum finished to match fixture body Offset ¾" NPT pendant entry to balance fixture in free-swinyiriq installation For fixture mounting Kim Speed Mount attaches directly to Balanced Pendant Junction Box (PB2)

Optional Quartz Standby:

Cat No **QS**

Integral current sensing relay energizes a T-4 mini-can socket during lamp warm up and after power interruption Socket de-energizes prior to the HID lamp reaching full brightness T 4 mini-can halogen lamp by olhers 100 watt maximum

NOTE: Input amps will increase by .80 with this option. Not available on 85IF

Optional Tamper-Resistant Lens Screws:

Cat No **TS**

Captive hex socket (allen) shoulder screws provided for downlight window instead of standard phillips-head screws

Optional Fusing:

Line Volts	120V	208V	240V	277V	347v	480V
Cat No	**SF**	**DF**	**DF**	**SF**	**SF**	**DF**

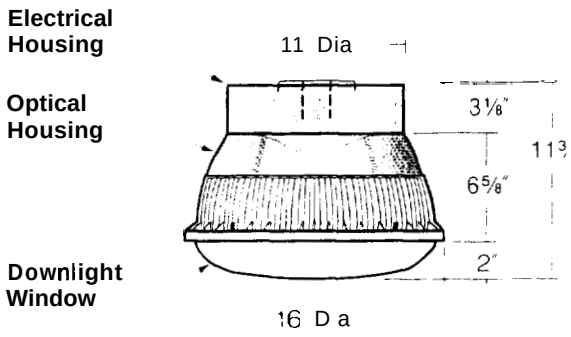
Lamp Included:

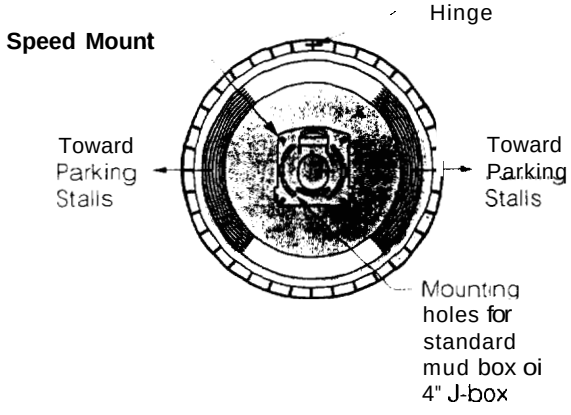
To order fixtures with lamp included arid installed add **lamp included** suffix to catalog number Will also include ***OS*** option lamp (when specified)

Luminaire Specifications

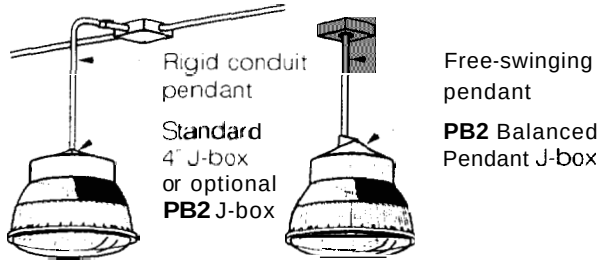
PGL4 / PGL1HP Models

Dimensions





Pendant Installations



- For rigid conduit pendant mount, use a standard 4" Junction Box with a centered pendant entry
- For Free-swinging pendant mount, use the optional **PB2** Balanced Pendant Junction Box (page **7**)
- For all pendant installations where bird shroud protection is desired use the optional **PB2** Balanced Pendant Junction Box (page **7**)

Speed Mount: Formed steel electro-zinc plated for mounting to standard 4 Junction Box or mud *box* Hooks are designed to hang fixture. freeing both hands for field wire connections Allows tool-free fixture mounting to Junction Box with integral anti-theft locking device

Ballast Housing: Die-cast aluminum for direct mounting to the Kim Speed Mount Wire entry is sealed with a silicone grommet

Optical Housing: One-piece injection molded UV stabilized polycarbonate (minimum wall thickness 125) with clear uplight window and mask-painted downlight section (PGLIHP only) with hydroformed Alzak aluminum reflector insert Reflector has vertical facets to prevent reflected light from passing through the lamp envelope Uplight window contains two prismed sections to spread additional light *downwaro* in the direction of parking stalls Optical Housing is secured to Electrical Housing with full silicone gasketing around the perirneler

Uplight Reflector and Socket: One piece hydroformed aluminum with Alzak surface facing prisms and diffuse white surface facing uplight window areas Socket is 4KV pulse rated medium base Reflector is removed by loosening three screws allowing access to the electrical components

Downlight Window: One piece clear injection molded UV stabilized high temperature acrylic (polycarbonate optional) Attached to Optical Housing with a no-tool quick release spring hinge and three captive phillips head shoulder type Screws to prevent overtightening (tamper-resistant hex socket screws optional) Perimeter is fully gasketed with silicone Convex shape yields maximum light transmission

H.I.D. Electrical Components: High power factor ballasts for -20°F starting rigidly mounted inside Electrical Housing and prewired with leads extended out top of housing

Induction Fluorescent Lamp Electrical Components: Complete HF generator and induction lamp systeni is furnished Induction lamp system is high power factor rated for -4' starting

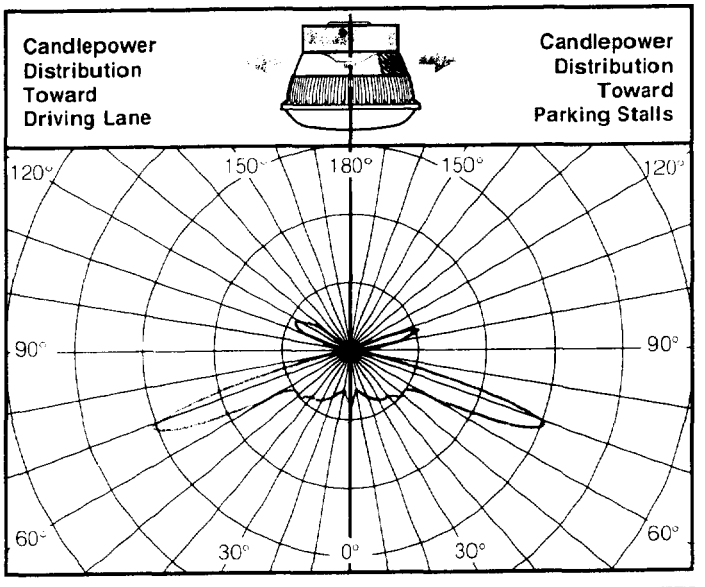
Optical Configuration: In the direction of the driving lanes luminaire downlight is of the cutoff classification with uplight provided for illuminating ceiling and beams In the direction of parking stalls luminaire is a semi-direct type with partial uplight refracted downwdrd for additional fill-light in the parking stalls In all directions lamp is shielded from normal viewing angles by the opaque reflector section of the luminaire

Finish: **PGL4**
Platinum Silver color on Ballast Housirig only Super TGIC thermoset polyester powder coat paint over chromate conversion coating Clear Optical Housing

PGLIHP
Light Gray color Super TGIC thermoset polyester powder coat paint over chromate conversion coating on Ballast Housing Oven cured coating specifically designed for plastic on middle band of Optical Housing

Certification: UL Listed to U S and Canadian safety stanaards for wer locations Fixture manufacturer shall employ a quality program that is dudited to ISO9001 standards

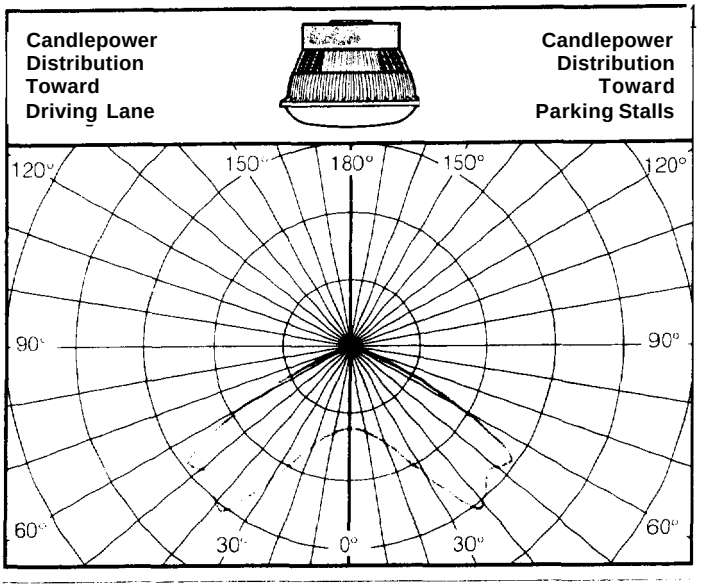
Optical Choices



PGL4/ PGL1HP
Standard Distribution

Innovated by Kim in 1989 the PGL systerri of garage luminaires has revolutionized how parking structures are illuminated Designed to provide uniform vertical and horizontal illumination when installed in regular garage areas Uplighting reduces the cave effect by illuminating the ceiling surfaces The PGL4 combines the proven performance of the PGL 1HP with state of the drt optional features finished in Platinum Silver finish

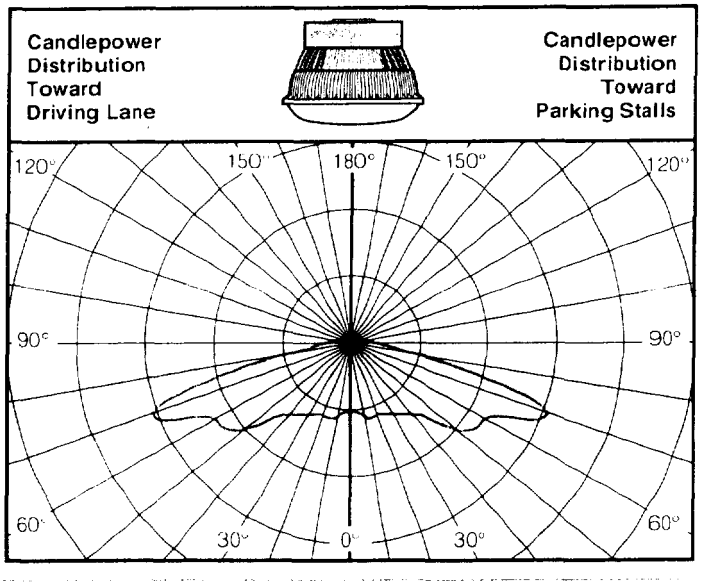
- Wide distribution for optimum fixture spac ng and economy
- Asymmetric uplight reduces 'cave effect and maximizes visibility
- Cutoff optics controls glare



DL-N
Optional Narrow Downlight Distribution (Minimum Uplight)

Modern parking structures include areas where ceiling heights are higher for access by emergency vehicles or other similar construction The **DL-N** option provides increased downlight intensity in a narrower distribution for increased mounting heights This option can also be used where focused horizontal illumination levels are desired such as entries and ticket dispenser locations

- Narrow distribution for higher mounting heiqhts
- Cutoff optics and minimum uplight control glare and luminaire brightness
- Retains aesthetic continuity with standard distribution luminaires



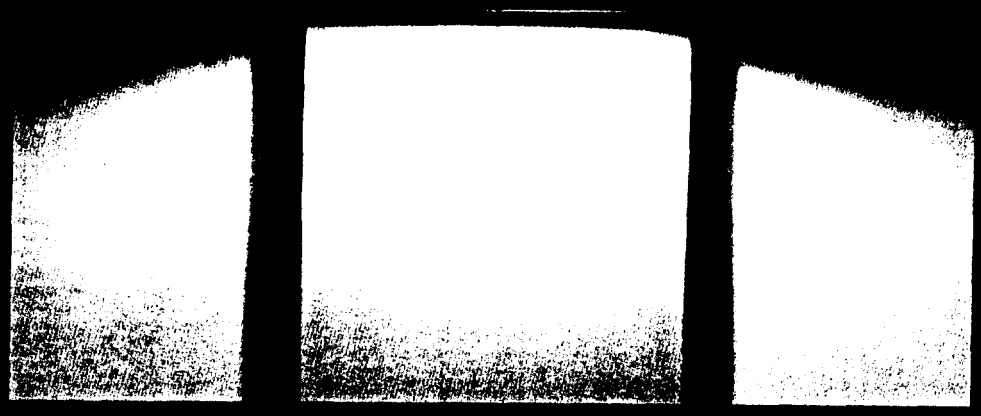
DL-W
Optional Wide Downlight Distribution (Minimum Uplight)

The **DL-W** option is offered for applications where restricted uplight distribution is desired The downlight distribution is essentially the same as the standard PGL 4/PGL 1HP maintaining full cutoff optical control with an increase in output from redirection of uplight illumination into the direct illumination zone

- Wide distribution with increased intensity
- Cutoff optics and minimum uplight control glare and luminaire brightness
- Retains aesthetic contiriuity with standard distribution luminaires

WALL MOUNTED LUMINAIRES

B



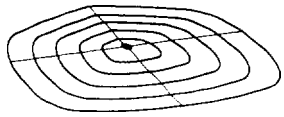
Four Distributions

B

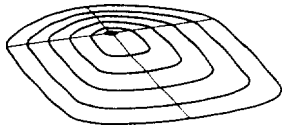
3

Wall mounted luminaires rnay be called upon to light a brodd range of ground surfaces ceilings, canopies and overhangs Fixture adjustment alone will not accomplish this because voids in the light pattern can develop when trying to make one distribution fit all applications Therefore the Wall Director is offered in four light distributions from Type II through Type IV plus Wall Grazer The Type II III and IV reflector systems are based on Kim's highly efficient and uniform pole-mounted luminaires such as The Archetype All four reflector systems are interchangeable within the Wall Director should jobsite changes and adjustments become necessary A houseside shield option is also available to reduce light on 'he wall

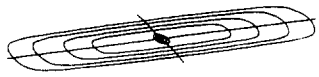
Type II



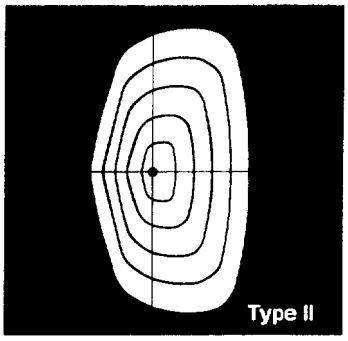
Type III

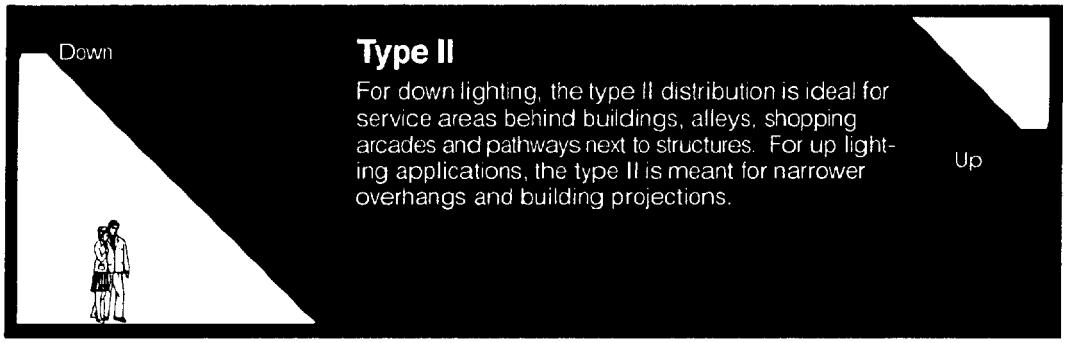


Type IV



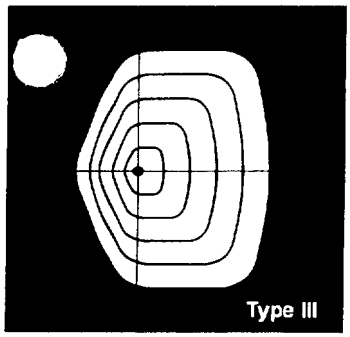
Wall Grazer

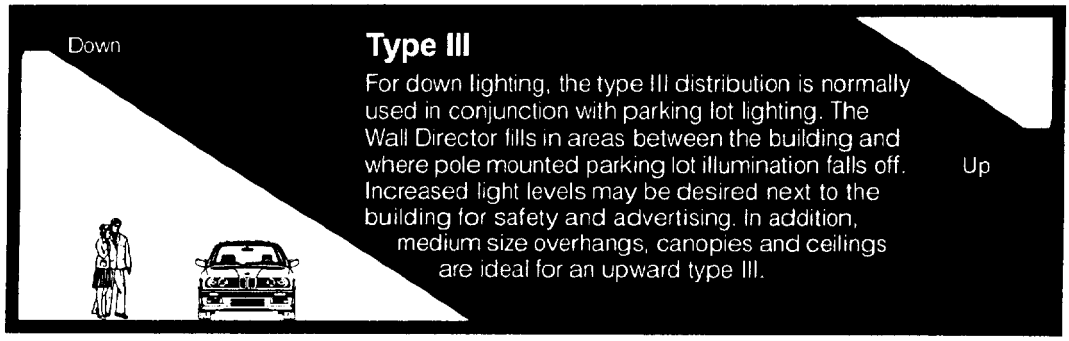




Type II

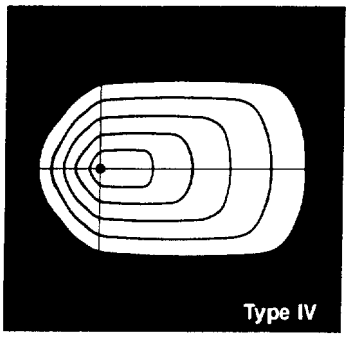
For down lighting, the type II distribution is ideal for service areas behind buildings, alleys, shopping arcades and pathways next to structures. For up lighting applications, the type II is meant for narrower overhangs and building projections.

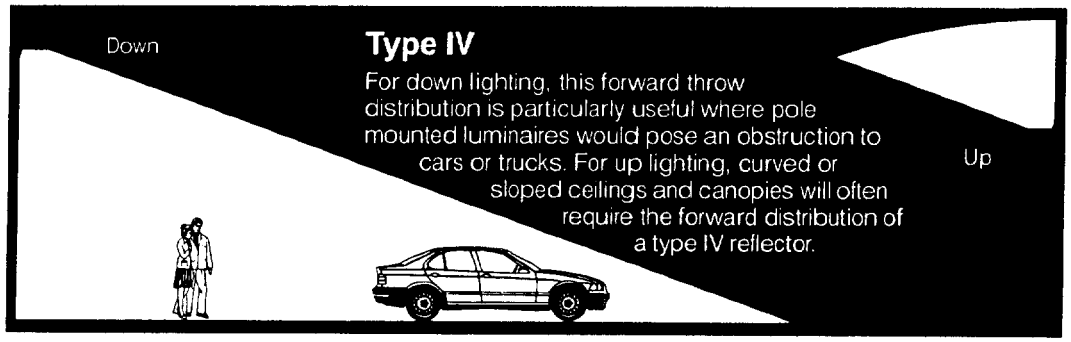




Type III

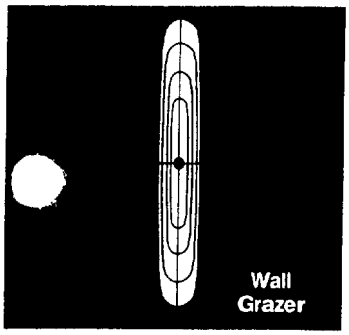
For down lighting, the type III distribution is normally used in conjunction with parking lot lighting. The Wall Director fills in areas between the building and where pole mounted parking lot illumination falls off. Increased light levels may be desired next to the building for safety and advertising. In addition, medium size overhangs, canopies and ceilings are ideal for an upward type III.

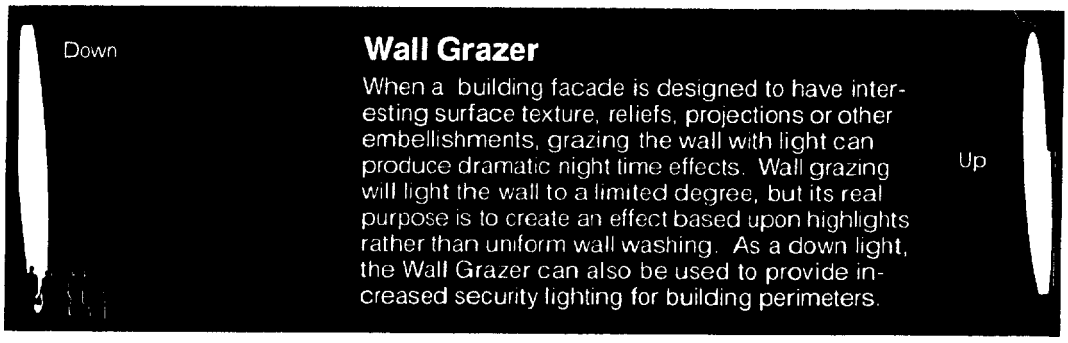




Type IV

For down lighting, this forward throw distribution is particularly useful where pole mounted luminaires would pose an obstruction to cars or trucks. For up lighting, curved or sloped ceilings and canopies will often require the forward distribution of a type IV reflector.





Wall Grazer

When a building facade is designed to have interesting surface texture, reliefs, projections or other embellishments, grazing the wall with light can produce dramatic night time effects. Wall grazing will light the wall to a limited degree, but its real purpose is to create an effect based upon highlights rather than uniform wall washing. As a down light, the Wall Grazer can also be used to provide increased security lighting for building perimeters.

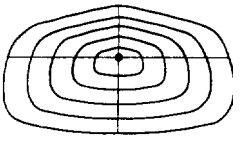
3

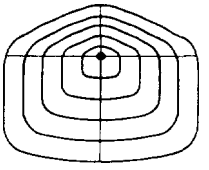
Ordering Information

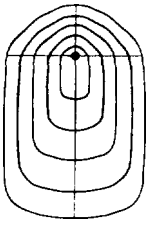
B

1 Fixture

Fixture catalog number specifies fixture size (14' or 18") Up (U)or Down (D) configuration, and light distribution (2 3, 4 or G)







		Type II distribution	Type III distribution	Type IV distribution	Wall Grazer distribution
Small	UP 14" 70-175w	WD14U2	WD14U3	WD14U4	WD14UG
	DOWN 14" 70-175W	WD14D2	WD14D3	WD14D4	WD14DG
Large	UP 18" 250-400W	WD18U2	WD18U3	WD18U4	WD18UG
	DOWN 18" 250-400W	WD18D2	WD18D3	WD18D4	WD18DG

2 Electrical Mode

Catalog number specifies lamp watts, lamp type arid line voltage

14" UP or DOWN

Lamp (by others)	Electrical Mode Catalog No	Line Volts	Line Watts	Max Amps
70 Watt High Pressure Sodiurri Clear ED17 Mediurn Base	**70HPS120**	120	86	1 45
	70HPS208	208	91	0 85
	70HPS240	240	91	0 75
	70HPS277	277	91	0 65
	70HPS347	347	93	055
100 Watt High Pressure Sodiurri Clear ED17 Medium Base	**100HPS120**	120	115	260
	100HPS208	208	130	1 50
	100HPS240	240	130	1 30
	100HPS277	277	130	1 15
	100HPS347	347	13C	1 00
150 Watt High Pressure Sodiurri Clear ED17 Medium Base	**150HPS120**	120	170	365
	150HPS208	208	188	2 10
	150HPS240	240	188	1 80
	150HPS277	277	188	1 58
	150HPS347	347	188	1 25
70 Watt Metal Halide Clear ED17 Medium Base	**70MH120**	120	89	1 90
	70MH208	208	89	1 00
	70MH240	240	89	U YO
	70MH277	277	89	080
	70MH347	347	94	065
100 Watt Metal Halide Clear ED17 Medium Base	**100MH120**	120	129	260
	100MH208	208	129	1 50
	100MH240	240	129	1 30
	100MH277	277	129	1 15
	100MH347	347	129	100
175 Watt Metal Halide Clear ED17 Medium Base	**175MH120**	120	215	180
	175MH208	208	215	104
	175MH240	240	215	090
	175MH277	277	215	080
	175MH347	347	215	065

18" UP or DOWN

Lamp (by others)	Electrical Mode Catalog No	Line Volts	Line Watts	Max Amps
250 Watt High Pressure Sodium Clear E18 Mogul Base	**250HPS120**	120	295	2.70
	250HPS208	208	295	1 50
	250HPS240	240	295	1 30
	250HPS277	277	295	1.15
	250HPS347	347	295	0 93
	250HPS480	480	295	0 65
400 Watt High Pressure Sodium Clear E18 Mogul Base	**400HPS120**	120	457	3 80
	400HPS208	208	457	2.20
	400HPS240	240	457	1 90
	400HPS277	277	457	1.70
	400HPS347	347	457	1 32
	400HPS480	480	457	1.00
250 Watt Metal Halide Clear BT28 or ED28 Mogul Base Pin Oriented	**250MH120**	120	295	2 60
	250MH208	208	295	1 50
	250MH240	240	295	1 30
	250MH277	277	295	1 10
	250MH347	347	290	0 90
	250MH480	480	295	0 65
400 Watt Metal Halide Clear ED28* Small Outer Jacket Mogul Base Pin-Oriented	**400SMH120**	120	458	4 00
	400SMH208	208	458	2 30
	400SMH240	240	458	2 00
	400SMH277	277	458	1 75
	400SMH347	347	458	1 40
	400SMH480	480	458	1 00

*Lamp available from Kim: **MS400/HOR/ED28** Venture High-Output horizontal burning metal halide, 400W, 40,000 lumens, 4000°K, 20,000 hr

B

Ordering Example:

FIXTURE	ELECTRICAL MODE	FINISH	OPTIONS		
WD14D3 /	**175MH277** /	**BL-P** /	**A-33**/	**HS** /	**5DS14**
1	2	3	4	5	6 . . . through 11

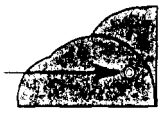
3 Finish

Super TGIC powder coat finish applied to reflector housing ballast housing and lens frame

Cat No	Color
BL-P	Black
DB-P	Dark Bronze
LG-P	Light Gray
PS-P	Platinum Silver
WH-P	White

Custom colors subject to additional charges minimum quantities and longer ledd times Consult factory

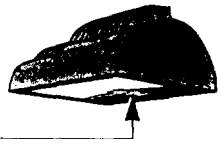
4 Photocell



Factory installed inside housing with fully gasketea sensor on side wall

Cat No	Line Volts
A-30	120V
A-31	208V
A-32	240V
A-33	277V
A-34	480V
A-35	347V

5 Houseside Shield

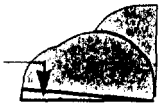


Combination louver shield and black end-panel tor reflector Factory installed tu reflector module Reduces light toward wall by the following amounts

	APPROXIMATE LIGHT REDUCTION TOWAHU WALL		
	Type II	Type III	Type IV
WD14	-43%	-74%	77%
WD18	-72%	73%	84%

Cat No. **HS**

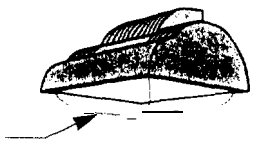
6 5° Shield



Aluminum shield field-attached to lens frame Maintains a horizontal cutoff fixture edge when the luminaire is tilted 5" Finished to match the fixture

Cat No
5DS14 For all 14 fixtures
5DS18 For all 18 fixtures

7 Polycarbonate Shield



For DOWN fixture models only
Vacuum formed clear polycarbonate shield replaces standard tempered glass lens 250W maximum in WD 18 (see specs for higher wattage)
CAUTION Use only when vandalism is anticipated to be high
Useful lite is limited by UV discoloration from sunlight and metal halide lamps

Cat No. **PS**

8 Fusing

All fusing is factory installed inside the fixture housing

Cat No [redacted]
Single fusing for 120V 277V and 347V primary

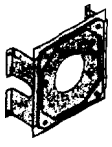
Cat No [redacted]
Double fusing for 208V, 240V and 480V primary

9 Quartz Standby

Integral electronic device energizes a T-4 mini-can socket during lamp warm-up and after a power interruption De-energizes prior io HID lamp reaching full brightness T-4 halogen lamp by others 100W maximum for WD14, 250W maximum for WD18

CatNo **QS**

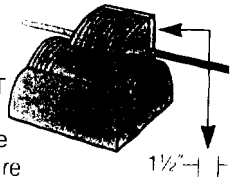
10 Wall Embedment Plate



For WD18 only.
Zinc plated steel mounting plate for casting into Poured concrete walls beams and columns Replaces standard mounting plate
See page 14 for dimensions

CatNo **WEP**

11 Surface Conduit Mount



Cast aluminum J-box and fixture mount for attachment (by others) to existing walls beams or columns SCM18 has one ¾ NPT conduit tap in each side top arid bottom SCM14 has one ¾ conduit tap in each side arid bottom only Finished to match the fixture

Cat No
SCM14U For WD14 fixtures UP only
SCM14D For WD14 fixtures DOWN only
SCM18 For all WD 18 fixrures UP or DOWN

WALL MOUNTED

LLF
SERIES

L L F

LOW LEVEL FLOODLIGHTS

50 - 100 WATT H.I.D. • 116 WATT INCANDESCENT

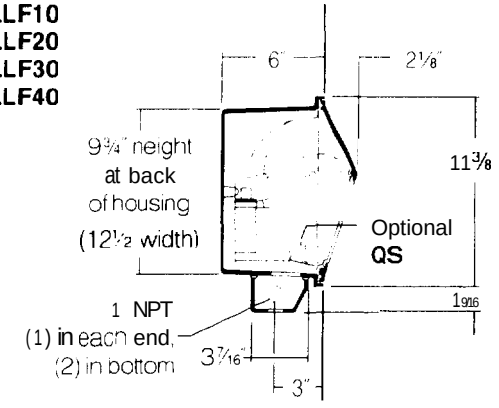
KIM LIGHTING

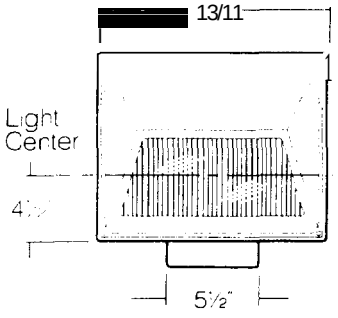
Luminaire Specifications

See page 8 for complete ordering information.

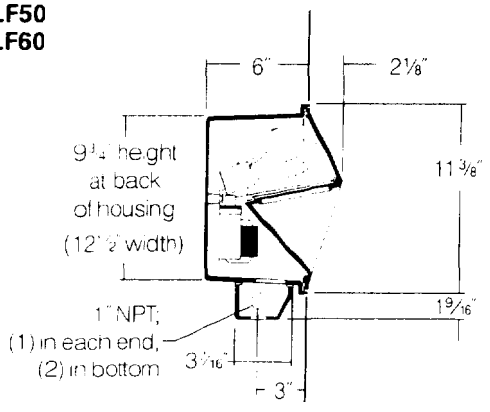
Dimensions

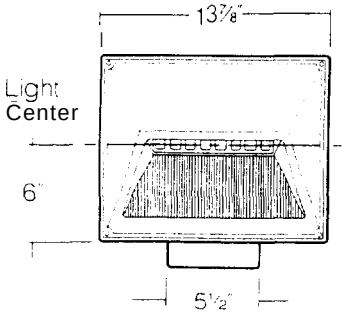
LLF10
LLF20
LLF30
LLF40





LLF50
LLF60





Housing and J-Box: Die-cast aluminum of an alloy containing less than 0.6% copper to prevent corrosion when cast in concrete. J box shall have an internally removable cover, a volume of 25 cu in, and four 1" NPT conduit taps. Two taps in the bottom and one in each end, all with removable plugs. Housing and J box further protected for permanence by a clear anodize coating. Cover furnished to keep the housing clean until the electrical components are installed.

Door Frame (LLF-10, LLF-20, LLF30, LLF-40): Die cast aluminum with a fine pebbled texture on the outer surface. Trapezoidal outer contour tilts the lens 18° from vertical. Door frame secured to housing by four captive stainless steel countersunk socket head screws.

Door Frame (LLF-50, LLF-60): Die-cast aluminum with a fine pebbled texture on the outer surface. Trapezoidal outer contour tilts the lens 18° from vertical. Cast aluminum recessed baffle that conceals the lens from normal view. Baffle shall be internally welded to door frame and internally sealed with black RTV. Door frame secured to housing by four captive stainless steel countersunk socket head screws. LLF-60 has an additional cast aluminum lens guard.

Gasketing: One piece molded silicone between the door frame and housing. A neoprene gasket provided between the J-box and housing. The entire fixture is weather tight.

Lens (LLF-10, LLF-20, LLF30, LLF-40). Tempered borosilicate glass [illegible] mm thickness with a smooth outer surface flush with the door frame and vertical inside flutes. For LLF-20 and LLF 33 a shield is provided behind the lens to control fixture brightness when viewing up the stairway or lamp. Lens is fully sealed around the perimeter with a silicone gasket and is retained by zinc plated steel clips. Optional polycarbonate lens (available on LLF 10, LLF 20 and LLF 30 only) one piece injection molded [illegible] mm thickness identical in appearance to the standard glass lens and contains a UV inhibitor.

Lens (LLF-50): Tempered clear glass [illegible] mm thickness with full silicone gasketing around the perimeter. Lens shall be retained by zinc plated steel clips.

Lens (LLF-60) Tempered diffused opal white glass [illegible] mm thickness with full silicone gasketing around the perimeter. Lens shall be retained by zinc plated steel clips.

Reflector (LLF-10, LLF-40, LLF50, LLF-BO): One piece hydroformed aluminum with Alzak® finish. For LLF-10 and LLF-40. Bottom reflector surface is matte black to prevent any escape of light in the viewer's direction.

Reflector (LLF-PO, LLF-30): One piece hydroformed aluminum with Alzak finish. Reflector is engineered specifically for stairways or ramps greater than 10° slope producing either a right downward or left downward light distribution depending on the fixture specified. Bottom reflector surface is matte black to prevent escape of upward light.

Electrical Module: Self-contained factory prewired and attached to the housing using keyhole slots. All electrical modules are universally mountable in a single housing. Ballasts are high power factor for -20°F starting. Sockets UL Listed for the appropriate lamps with High Pressure Sodium and Metal Halide sockets rated 4KV. Fixtures must be grounded in accordance with local codes or the National Electrical Code. Failure to do so may result in serious personal injury.

Finish: Super TGIC thermoset polyester powder coat paint 2.5 mil nominal thickness applied over a chromate conversion coating. 2500 hour salt spray test endurance rating. Standard colors are Dark Bronze, Black, Light Gray, Platinum Silver or White. Custom colors are available and subject to additional charges, minimum quantities and longer lead times. Consult representative.

Certification: UL Listed to U.S. and Canadian safety standards for wet locations. Fixture manufacturer shall be registered to ISO 9001.

Pour Items: Die-cast aluminum housing and J-box only, less any electrical or optical components.

Finishing Items: Electrical module, reflector and door frame. Each set of finishing items shall be in one container, clearly marked for the fixture catalog number.

Ordering Information

Ordering Example	Fixture		Electrical Module		Finish		Options
	LLF-10	/	70HPS277	/	BL-P	/	QS / SF

Fixture:

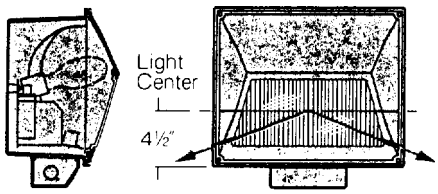
Cat No includes housing and J-box optical system and door frame with standard tempered glass lens

Arrows indicate main thrust of light distribution, in elevation

General Area Lighting

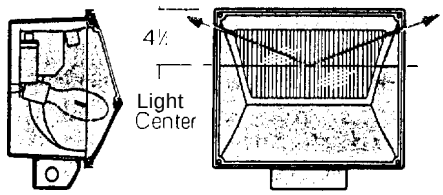
Cat No **LLF-10**

Direct Lens,
Symmetric Downward Light Throw
Wall or Ceiling Mounted



Cat No **LLF-40**

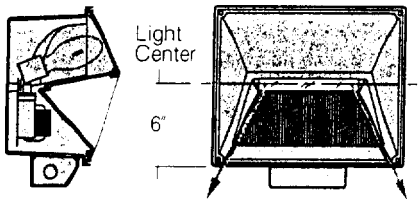
Direct Lens,
Symmetric Upward Light Throw
Wall Mounted



Cutoff Area Lighting

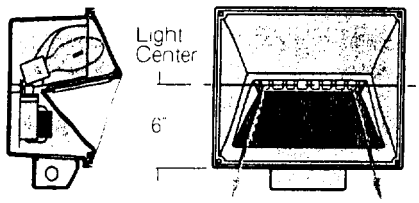
Cat No **LLF-50**

Concealed Lens
Symmetric Downward Light Throw,
Wall Mounted



Cat No **LLF-60**

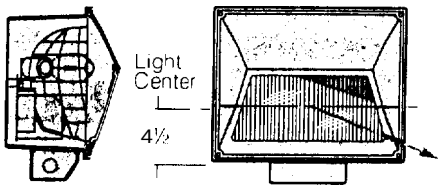
Concealed Lens with Guard,
Symmetric Downward Light Throw
Wall Mounted



Stairway Lighting

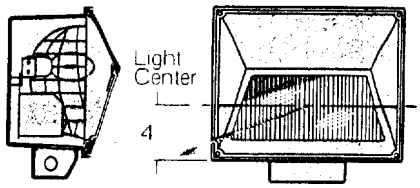
Cat No **LLF-20**

Direct Lens,
Asymmetric Right Downward Light Throw
Wall Mounted



Cat No **LLF-30**

Direct Lens
Asymmetric Left Downward Light Throw
Wall Mounted



Electrical Module:

HPS = High Pressure Sodium

MH = Metal Halide

INC = Incandescent

Cat Nos for Electrical Modules available for the LLF fixture

50HPS120	**70HPS120**	**100HPS120**	**70MH120**	**100MH120**	**116INC120**
50HPS208	**70HPS208**	**100HPS208**	**70MH208**	**100MH208**	
50HPS240	**70HPS240**	**100HPS240**	**70MH240**	**100MH240**	
50HPS277	**70HPS277**	**100HPS277**	**70MH277**	**100MH277**	
	70HPS347	**100HPS347**	**70MH347**	100MH347	

Lamp Watts	Lamp Type	Line Volts
100	HPS	**120**

Finish:

Super TGIC powder coat paint over chromate conversion coating

Color	'Black	Dark Bronze	Light Gray	White	Platinum Silver	*Custom Colors
Cat No	**BL-P**	**DB-P**	**LG-P**	**WH-P**	**PS-P**	**cc-P**

*Specify on LLF-50 and LLF-60 when minimum fixture brightness is desired

'"Consult representative for custom colors

Optional Polycarbonate Lens

Cat No **PL**

Available on **LLF-10 LLF-20**, and **LLF-30** only

Injection molded identical n appearance to standard tempered glass lens

CAUTION: Use only when vandalism is anticipated to be high Useful life is limited due to yellowing caused by U V frorr sunlight Mercury Vapor and Metal Halide amps

Optional Quartz Standby

Cat No ***QS***

Available on **LLF-10 LLF-20, LLF-30** arid **LLF-40** only

Integral electronic device energizes a T-4 mini car socket during amp warm-up and after a power interruption Socket de-energizes prior to the HID lamp reaching full brightness T 4 mini-can Halogen lamp by others 100 watt maximum

Optional Single Fusing

Cat No **SF**

Single fusing for 120V 277V, and 347V primary

Optional Double Fusing

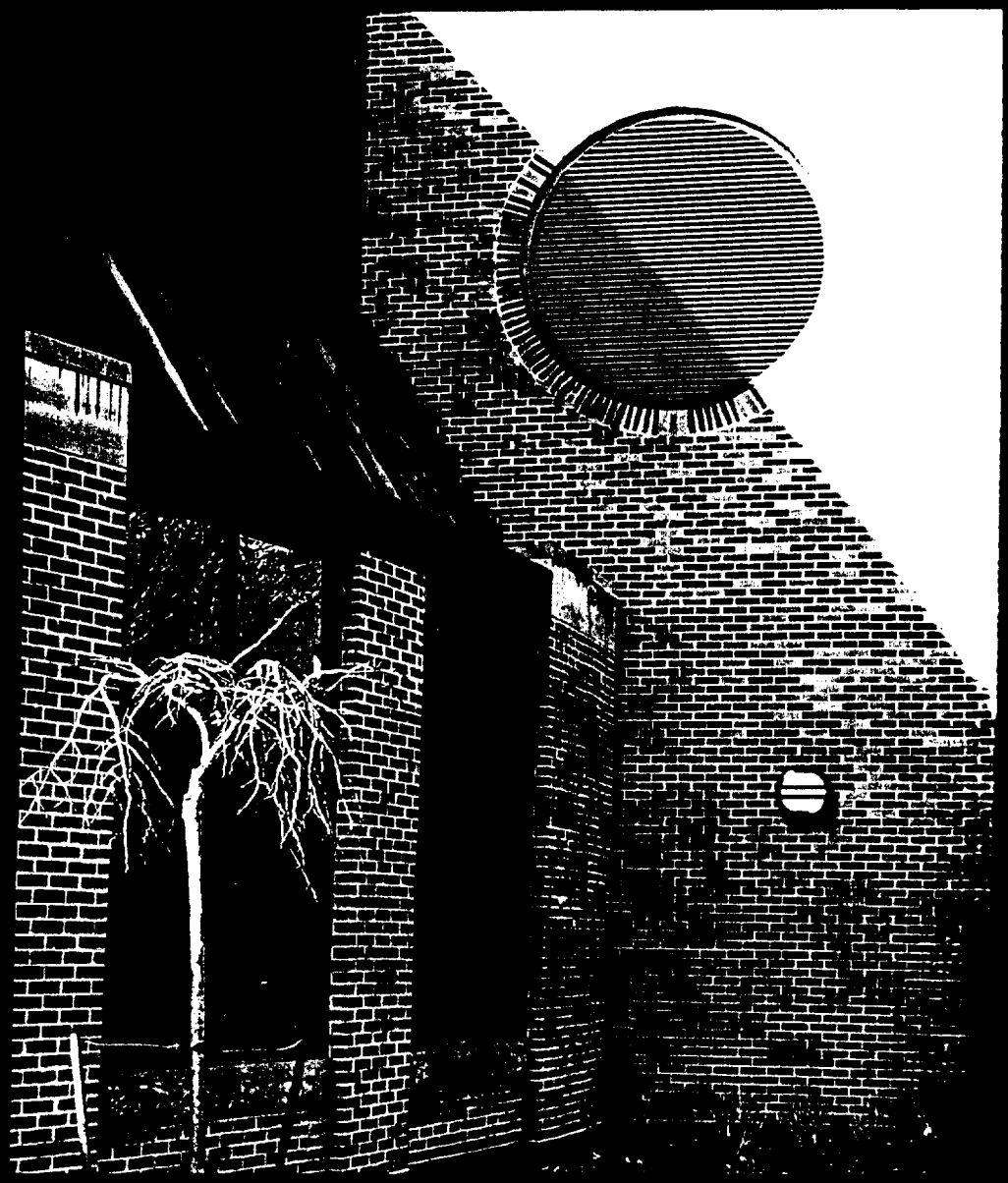
Cat No **DF**

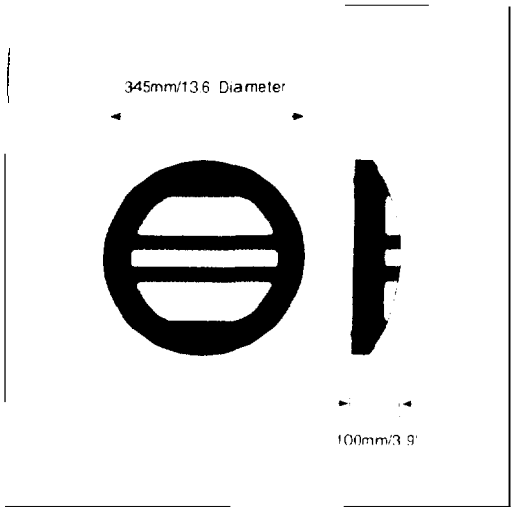
Double fusing for 208V and 240V primary

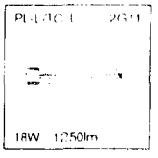
RION OD9

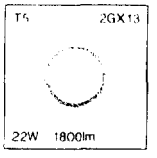
D

t ref: 31 0901/BL/1









GENERAL SPECIFICATION

Cover: Steel stainless steel or copper Main body: Two piece injection molded polycarbonate with silicon gasket Body retained by stainless steel screws. Finish: Black powder coated Stainless steel covers are supplied with a brushed finish. Solid copper covers are supplied with a brushed natural and untreated finish which will develop a tiful patina when used outdoors Diffuser: Injection ..ded. opal polycarhonale **Ballasts:** Luminaires supplied with HPF high frequency electronic ballasts Ballasts feature 0°F minimum starting temperature 'Check with factory for availability Luminaire orientation: Wall mounted Mechanical: Luminaires mount directly to a junction box Additional mounting positions also provided Luminaires meet 'Americans with Disabilities Act' requirements (ADA). Approvals: UL. CSA. CE. Suitable for wet location. **IP54**

C US C US CE

A. SPECIFY LAMP CONFIGURATION/LUMINAIRE TYPE

Cat Ref:	Lamp type:	Weight:	Photometry:
31 0901	2 x 18W **TC-D (PL-C)**	1 4Kg/3 1lb	File# **310901**
31 0902	2 x 18W TC-L (PL-L)	1 4Kg/3 1lb	File# **310902**
31 0903	22W TC-C **(T5)** circline	1 4Kg/3 IIb	File# **310903**

BL Black
SS Stainless steel
SC Solid copper

1 120V
2 277V
3 347V*
4 230V

SPECIFICATION GUIDE

To specify a complete luminaire select: A) Luminaire. **B)** Finish and C) Voltage

For example, lo specify: Orion OD9. 2 x 18W PL-C. stainless steel, 277V

A) Lurninaire	B) Finish	C) Voltage
▼	▼	▼
31 0901	**SS**	**2**

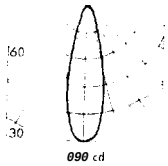
© 2003 Beta-Calco Inc

MICROSLOT

30

5.3933

ior halogen lomp PAR14 35W
medium base 25"
lamp position fixed

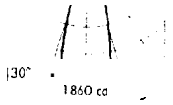


h(ft)	Ø(ft))	(F.C.)
3	1.56	43.0
6	312	107
9	468	48
12	624	27
15	774	7

32°

S.3934

For low voltage halogen lamp MR 16
20W 12V GU5 3 38'
Electronic transformer 120V/12V
lamp position fixed

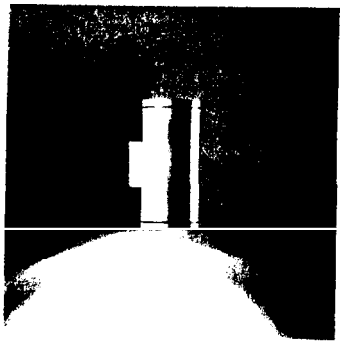


h(ft)	Ø(ft))	(F.C.)
3	1.68	123.3
6	342	306
9	510	137
12	678	77
15	852	49

ALUMINUM GREY

E

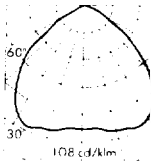
MINISLOT



102°

S.3930

For compact fluorescent lomp
18W-TGx24q-2
1200 lm
HPF electronic ballast
Lomp position fixed

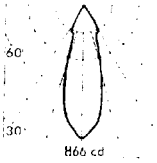


h(ft)	Ø(ft))	(F.C.)
3	732	43
6	1458	1.1
9	2190	0.5
12	2916	03
15	3646	02

30

53931

Far halogen lamp PAR30 75W
medium base 30"
lamp position adjustable ± 15°

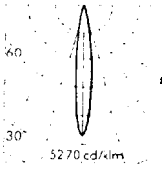


h(ft)	Ø(ft))	(F.C.)
3	162	116.5
6	324	291
9	492	129
12	654	73
15	816	A7

14

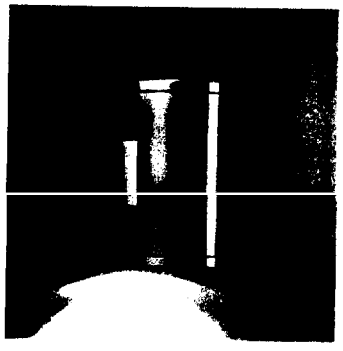
S.3932

For metal halide lomp PAR 20
CDM R 35W medium base
3300 lm
Solid stole electronic ballast
lomp position adjustable ± 15'
[lamp with integral reflector
beam ogles available 10" 30")



h(ft)	Ø(ft))	(F.C.)
6	156	274.1
12	306	68.5
18	456	3C5
24	618	171
30	768	110

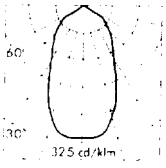
SLOT



58°

S.3935

For cornpoct fluorescent lomp
26/32/42W Gx24q 3/4
1800/2400/3200 lm
HPF electronic bollost
Lomp position fixed



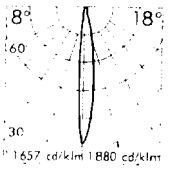
h(ft)	Ø(ft))	(F.C.)
3	324	552
6	654	138
9	976	61
12	1302	3.5
15	996	22

Values obtained with 42W

18"

S.3936

For metal halide lomp CDMT 70W G12
6600 lm
Solid state electronic ballast
[8° beam reflector on request)
lomp position adjustable ± 15"

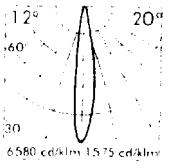


h(ft)	18 Ø(ft))	18 (F.C.)	8° Ø(ft))	8° (F.C.)
6	198	187.5	072	11746
12	396	469	1.50	293.6
18	594	206	222	1305
24	798	117	294	734
30	996	75	372	470

23

S.3938

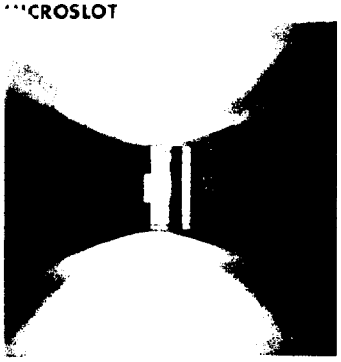
For metal halide lomp CDMT 150W G12
14000 lm
Solid state electronic ballast
[12' beam reflector on request]
lomp position adjustable ± 15°



h(ft)	20 Ø(ft))	20 (F.C.)	1° Ø(ft))	1°)
6	222	3430	162	15168
12	A44	857	252	3792
18	666	381	384	168.5
24	882	214	510	94.8
30	108	137	636	607

SLOT WALL UP DOWN

MICROSLOT



30

5.3943

For low voltage lamp
PAR14 35W medium base
lamp position fixed

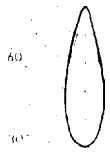
30

32

5.3944

For low voltage halogen lamp MR 16
20W 12V GU5.3 38
Electronic transformer 120V/12V
lamp position fixed

32



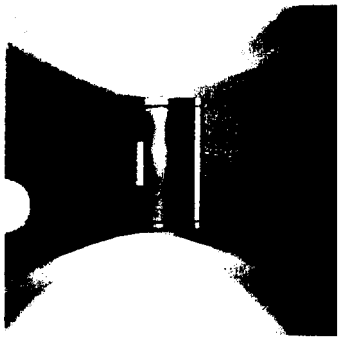
h(ft)	Ø(ft)	(FC)
3	1.56	430
6	3.12	107
9	4.68	Ad
12	6.24	27
15	[illegible]	17

h(ft)	Ø(ft)	(FC)
3	1.68	23.3
6	3.42	30.6
9	5.1	13.7
12	6.78	[illegible]
15	8.52	4.9

ALUMINUM GREY

F

MINISLOT



102

5.3940

For compact fluorescent lamp
18W TGx24q-2
1200 lm
HPF electronic ballast
Lamp position fixed

102

30

5.3941

For halogen lamp PAR30 75W
medium base 30
lamp position adjustable ± 15

30

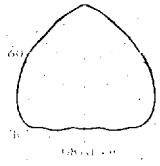
S 3941 S 3940 S.3942

14

5.3942

For metal halide lamp PAR 20
CDMR 33W medium base
3300 lm
Solid state electronic ballast
Lamp position adjustable ± 15
(lamp with integral reflector
beam angles available 10 30)

14

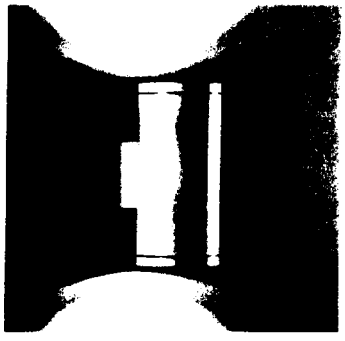


h(ft)	Ø(ft)	(FC)
3	7.32	4.3
6	14.58	1.1
9	21.90	[illegible]
12	29.16	0.3
15	36.48	0.2

h(ft)	Ø(ft)	(FC)
3	1.62	116.5
6	3.24	29.1
9	4.92	12.9
12	6.54	7.3
15	8.16	4.7

h(ft)	Ø(ft)	(FC)
6	1.56	274.3
12	3.08	68.5
18	4.62	30.5
24	6.18	17.1
30	7.66	11.0

SLOT



58

5.3945

For compact fluorescent lamp
26/32/42W Gx24q-3/4
1800/2400/3200 lm
HPF electronic ballast
Lamp position fixed

58

18

5.3946

For metal halide lamp CDM-T 70W G12
6600 lm
Solid state electronic ballast
(8° beam reflector on request)
Lamp position adjustable ± 15

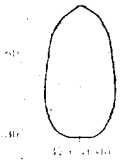
18

20

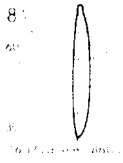
5.3948

For metal halide lamp CDM-T 150W G12
14000 lm
Solid state electronic ballast
(12° beam reflector on request)
Lamp position adjustable ± 15

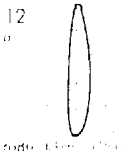
20



h(ft)	Ø(ft)	(FC)	Values not reached
3	1.24	55.2	[illegible]
6	6.54	13.8	42.6
9	9.78	6.1	
12	[illegible]	3.5	
15	2.96	2.2	



h(ft)	Ø(ft)	(FC)	Ø(ft)	(FC)
6	1.96	187.5	1.72	[illegible]
12	3.96	46.9	3.50	[illegible]
18	5.94	20.8	5.22	[illegible]
24	7.98	11.7	6.94	[illegible]
30	9.96	7.5	8.72	[illegible]



h(ft)	Ø(ft)	(FC)	Ø(ft)	(FC)
	2.22	343.0	1.62	[illegible]
	4.44	85.7	3.50	[illegible]
8	6.66	38.1	5.84	[illegible]
24	8.82	21.4	5.10	[illegible]
[illegible]	10.8	13.7	6.36	[illegible]

Applicant: CANAL Street LLC Date: 9/16/05

Address: 730 Congress St C-B-L: 55-C-9
WALKER TERRACE

CHECK-LIST AGAINST ZONING ORDINANCE

Date - New Construction on Existing site #05-0972

Zone Location - C-33 Contract Zone/Conditional Rezoning

Interior or corner lot -

Proposed Use/Work - to Construct 40 residential D.U. (No more than 40 per contract) rental not condos

Sewage Disposal - City

Lot Street Frontage - N/A

Front Yard - Walker St (per contract) - None req

Rear Yard - Carlton St - None req

CEO check → Side Yard - Southerly lot line parallel to Congress (abutting res.) - 10' req - 10' shown
Congress St (per contract) - None req

Projections -

Width of Lot - N/A

very close verify in field → Height - No more than six (6) stories or 55' max (6 shown, 6th floor setback - mezzelevel) → Average grade = 125.65 T.O.B 180.56 — 54.91' shown

Lot Area - 17,618 ft given

Lot Coverage/Impervious Surface - 65% max - ok per submitted (None req.) OK

Area per Family - min land area per DU = 440 ft
440 x 40 = 17,600 ft

Off-street Parking - 1 per DU or 40 req - 41 spaces shown

Loading Bays - N/A

Site Plan - # SubDiv. 2004-0213

Shoreland Zoning/Stream Protection - N/A

Flood Plains - panel 13 - Zone C

Smallest unit shall be no less than 550 ft

Statement of Compliance with Accessibility Standards under the Fair Housing Act

Walker Terrace – Portland, Maine

Walker Terrace will have **40** residential units served by an elevator. Accessibility compliance is achieved using three different but overlapping "Codes".

A. The site and first floor lobby is designed to both ADA and the "Common Use Areas of Fair Housing Design Manual" (HUD 1999). This includes primarily accessible parking spaces and routes (grading and doors).

B. Four units (10% of total) required to be fully accessibility by the State of Maine using ANSI 1984.

C. Thirty Six units come under Fair Housing. They are designed using the "Fair Housing Design Manual" and as Type "B' units under the IBC 2003 Chapter 11 (Accessibility) in accordance with ICC A117.1 Section 1003. This includes accessible clearances throughout the unit and adaptability (such as blocking for future grab bars).

55C9

REGISTERED ARCHITECT
DAVID LLOYD
No. 936
STATE OF MAINE

PERMIT ISSUED
SEP 13 2005
CITY OF PORTLAND

David Lloyd
Architect

48 Union Wharf, Portland, Maine 04101 (207) 772-6022 • Fax (207) 772-4050

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

ACCESSIBILITY CERTIFICATE

Designer: David Lloyd

Address of Project: 1 Walker St. Portland ME

Nature of Project: 40 Unit Apartment Building

The technical submissions covering the proposed construction work as described have been designed in *compliance* with applicable referenced stand[illegible] Maine Human Rights Law and Federal [illegible]deral Americans with Disability Act.

Signature:

Title: Architect

Firm: Archetype PA

Address: 48 Union Wharf
Portland ME

Phone: 207-772-6022

55C9

REGISTERED ARCHITECT
(SEAL)
DAVID
LLOYD
No. 936
STATE OF MAINE

NOTE: If this project is a new Multi Family Structure of 4 units or more, this project must also be designed in compliance with *the* Federal Fair Housing Act. On a separate submission, please explain in narrative form the method of compliance.

CITY OF PORTLAND
BUILDING CODE CERTIFICATE
389 Congress St., Room 315
Portland, Maine 04101

TO: Inspector of Buildings City of Portland, Maine
Department of Planning & Urban Development
Division of Housing & Community Service

FROM: Archetype, P.A.

RE: Certificate of Design

DATE: 7/19/05

These plans arid / or specifications covering construction work on:

One Walker Street

Have been designed and drawn up by the undersigned, a Maine registered Architect / Engineer according to the ***2003 International Building Code*** and local amendments.

REGISTERED ARCHITECT
DAVID LLOYD
No. 936
STATE OF MAINE
(SEAL)

Signature:

Title: Architect # me 936

Firm: Archetype, P.A.

Address: 48 Union Wharf
Portland, ME 04101

As per Maine State Law:

$50,000.00 or more in new construction, repair expansion, addition, or modification tor Building or Structures, shall be prepared by a registered design Professional.