

SITE IN	<b>IFORMATION</b>	BLOCK
Site Address	1418 S. PAR	K ST. MADISON, W
Site Square Foot	oge	44,45
Site Developed To	otal Square Foota	ige: 36,718
Number of Buildi	ng Stories	
(above grade)		
Building Helght		<30 FT
Total Square Foo	tage of Building	APPROX. 11, 000
Use of property		COMMERCIAL
Number of employed	oyees	-
Existing Number	of parking stalls:	
Large car		25
Accessible		
Total		2

, rk

LANDSCAPE PLANT LIST SYM QTY. COMMON NAME	BOTANICAL NAME	SZE	ROOT	LS POINTS	TOTAL POINTS
LARGE DECIDUOUS TREES	The same series is because the same of the	:			
EX : 5 Existing Deciduous Tree	Multiple Species	VARIES	VARIES	35	175
MEDIUM DECIDUOUS TREES	and the said of the said was to be			Maria .	
EX 2 Existing Deciduous Tree	Multiple Species	VARIES	VARIES	15	30
CC 2 J.N. Strain Musclewood	CARPINUS caroliniana 'J.F. Strain'	1 1/2° Cal.	B&B	15	30
EVERGREEN TREES	The state of the s	A			
EX 2 Existing Evergreen Tree	Multiple Species	VARIES	VARIES	15	30
TO 12 Holmstrup Arborvilae	THUJA occidentalis "Holmstrup"	40" Mn. Hl.	#3Cont.	15	180
MEDIUM DECIDUOUS SHRUBS	and the same of th				
BT : 10 Soring Fire Berberry	BERBERIS trumbergii Diabolic	18" Mn. Ht.	#2 Cont	2	20
CS 8 Kalsoy Dwerf Dogwood	CORNUS serices Kelseyi	18*Mn. Ht.			16
IV 12 Little Henry Sweetspire	ITEA virginica "Little Henry"	: 18"Mn. Ht.			24 10
PO 5 Dwarf Common Ninebark	PHYSOCARPUS opulifolius Little Devil	18" Mn. HL			10
RA 6 Alpino Current	RIBIES alpinum	18"Mn. HL	# 2 Cont.	2	. 12
MEDIUM EVERGREEN SHRUBS	Caracan Caracan State Conservation (e.g., except except conservation)			···	
JC 6 Mountbatten Juniper	JUNIPERUS chinensis Mountbetton'	48" kin, Hi.	#3Cont.	3	18
TC 9 Dwarf Japanese Yew (Brovilolia)	TAXUS cuspidata Nana*	18" Min. Ht.	#2 ConL	3	27
ORNAMENTAL GRASSES	A STATE OF THE PARTY OF THE PAR				
CA 22 Kert Fourester Feather Reed Gress	CALAMAGROSTIS & neutlions Kerl Footostor	10 - 12"HL	# 1 Cont	2	44
	,			: TOTAL	616

Daveloped Area:	36,718 Sq. FL				:	
Regulament:	1 Landscape Unit provided for each 300 Sq. Ft. of developed area					
Colculation:	36,718 sq. fL/300 sq. fl/landscape unit = 122.39 Plant Units			٠		
Rodulromont:	1 Landscape Unit consids of (5) Landscape Points			- 1	to the second	**
Calculation	122,39 Plant Units x 5 Landscape Points per unit = 612,00 Landscape Points				÷	-
Total Plant Units Required:	612.00 Landscape Points					-
Total Plant Units Provided:	616.00 Landscape Points				<u> </u>	
Specke: Common Name	Species: Scientitic Name	άΤΥ	POINT	VÁLÜE	TOTAL PO	EVT
Existing Large Deciduous Trees	Multiple Species	5		35	175	
xisting Deciduous Troe	Multiple Species	2		1B	. 30	
J.N. Strain Musclewood	CARPINUS caroliniane 'U.F. Strain'	2	1	15	30	
Existing Evergreen Tree	Multiple Spacios	2	. 1	5	30	
Holmstrup Arboryltae	THUJA occidentaliz Holmstrup	12	1	5	180	
Spring Fire Barberry	BERBERIS thunbergii 'Diabolic'	10	1 1	2	20	
Kelsey Dwarf Dogwood	CORNUS sorices Kelsey?	B	*************	2	16	
Litto Horry Sweetspire	ITEA virginica Little Henry	12	pro-1 -	2	24	****
Dwarf Common Ninebark	PHYSOCARPUS opulifolius "Little Davit"	5		2	10	•
Upine Current	RIBIES alpinum	6		2	12	
Mountbatten Juniper Dwarf Japanoso Yew (Brovilolia)	JUNIPERUS chinonals "Abunto alton" TAXUS cuspidota "Nama"	6		3	18 27	
Kerl Foorester Feether Reed Gress	CALAMAGROSTIS x acutifiora 'Karl Fourtistar'	22		2 <sup>'</sup>	. 44	
	TOTALS =				616	

#### LEGEND (PROPOSED)

--- PROPERTY LINE 18" CONCRETE CURB & GUTTER ASPHALT PAVENENT CONCRETE PAVEMENT / SIDEWALK

- POLYETHYLENE LANDSCAPE EDGING

EXISTING LARGE DECIDUOUS TREES (CANOPY TREES)

EXISTING EVERGREEN TREES

EXISTING MEDIUM DECIDUOUS TREES

MEDIUM DECIDUOUS TREE \* EVERGREEN TREE <u>୦</u>@୦ଉର MEDIUM DECIDUOUS SHRUBS **0**\* MEDIUM EVERGREEN SHRUBS

ORNAMENTAL GRASS

#### LANDSCAPE NOTES AND SPECIFICATIONS

- 2. DELIVERY AND HANDLING: DO NOT DELIVER MORE PLANT MATERIALS THAN CAN BE PLANTED IN ONE DAY. DELIVER PLANTS WITH LEGBLE IDENTIFICATION LABELS. PROTECT PLANTS DURING DELIVERY AND DO NOT PRIVILE PRIOR TO DELIVERY. ALL TREES AND SHRIES SHALL BE PLANTED ON THE DAY OF DELIVERY; IF THIS IS NOT POSSIBLE, PROTECT THAT STOCK NOT PLANTED BY STORING STOCK IN A SHADED AREA PROTECTING THE ROOT MASS WITH SOUL MOSS OR OTHER SUITABLE BEDIA AND KEEPING WELL WATERED. DO NOT REMOVE CONTAINER GROWN STOCK FROM CONTAINERS BEFORE TIME OF PLANTING. DO NOT PICK UP CONTAINER OR BALLED PLANTS BY STEM OR ROOTS. ALL PLANTS SHALL BE LIFTED AND HANDLED FROM THE BOTTOM OF THE BALLE PORM ACTUAL PLANTING ONLY WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE IN ACCORDANCE WITH LOCALLY ACCEPTED PRACTICES.
- .3. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE ALL PLANTS THROUGH ONE (1) YEAR AFTER ACCEPTANCE BY OWNER. PLANTS SHALL BE ALIVE AND IN GOOD HEALTHY AND FLOURISHING CONDITION AT THE END OF THE GUARANTEE PERIOD. THE CONTRACTOR SHALL REPLACE WITHOUT COST TO THE OWNER AND HANTS THAT ARE DEAD OR NOT IN A MICOROUS THRINNIC CONDITION. REPLACEMENT PLANTS SHALL BE OF THE SAME KIND AND SIZE AS ORIGINALLY SPECIFIED UNLESS OTHERWISE DIRECTOR BY OWNER. RESTORE BEST AS RECESSARY FOLLOWING PLANT REPLACEMENT, INCLUDING BUT NOT LIMITED TO BEDDING, EDGING, MULCH, GRASS, ETC. REPAIR DAMAGE TO OTHER PLANTS OR LAWNS DURING PLANT REPLACEMENT AT NO COST TO OWNER. CONTRACTOR SHALL PROVIDE A TWO (2)—YEAR STRAIGHTENING GUARANTEE FOR ALL TREES.
- (A) HATERIALS PLANTS SHALL CANDRUIT OF THE AMERICAN STANDARD FOR NURSERY STOCK ANS Z60.1—2004. PLANTS SHALL EE TRUE TO SPECES AND VARIETY SPECIFIED AND NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICLIZINAL PRACTICES UNDER CLUARIT CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT FOR AT LEAST 2 YEARS. PLANTS SHALL BE FIESHLY DUG (DURING THE MOST RECENT FAVORABLE HARVEST SEASON). PLANTS SHALL BE SO TRAINED IN DEVELOPMENT AND APPEARANCE AS TO BE UNQUESTIONABLY SUPERIOR IN FORM, COMPACTIVESS, AND SYMMETRY. PLANTS SHALL BE SOUTH, HEALTHY, WIGOROUS, WELL BRANCHED AND DENSELY FOULTED WHEN IN LEAF, AND FREE OF DISEASE AND INSECTS (ADULT EGGS, PUPAE OR LARVAE). THEY SHALL HAVE HEALTHY, WILL—DEVELOPED ROOT SYSTEMS AND SHALL BE FREE FROM PHYSICAL DAMAGE OR OTHER CONDITIONS THAT WOULD PREVENT THRIVING GROWTH. PLANTS SHALL BE OF THE HIGHEST QUALITY, HAVE TYPICAL GROWTH HABITS FOR THEIR SPECIES, BE SOUND, HEALTHY, MIGOROUS AND FREE OF INJURY. PARKWAY TREES AND PARKING LOT INTERES SHALL HAVE A MINING ROWTH. PLANTS SHALL BE FOR OF THE HIGHEST QUALITY, HAVE TYPICAL GROWTH HABITS FOR THEIR SPECIES, BE SOUND, HEALTHY, MIGOROUS AND FREE OF INJURY. PARKWAY TREES AND PARKING LOT INTERES SHALL HAVE A MINING BRINCHING HEIGHT OF SIX (6) FEET ABOVE THE GROUND TO ALLOW ADEQUATE VISUAL AND PHYSICAL CLEARANCE.
- MATERIALS EDGING: EDGING SHALL BE 5" DEEP, BLACK, POLYETHYLENE EDGING EXCEPT FOR TREE RINGS. ALL DECIDIOUS, TREES NOT MITHIN EDGED LANDSCAPE BEDS OR PARKING ISLANDS SHALL BE INSTALLED WITH A 6" DIAMETER TREE RING WITH SHOVEL—CUT EDGING.
- 6. MATERIALS MULCH: PLANTING FOUNDATION BEDS TO RECEIVE CLEAN, WASHED STONE SPREAD TO A CONSISTENT DEPTH OF FOUN INCHES OVER ENTIRE AREA. FERTILIZER SHALL BE IN ACCORDANCE WITH DANE COUNTY AND STATE OF WISCONSIN REQUIREMENTS. SIZE AND COLOR TO BE APPROVED BY OWNER PRIOR TO INSTALLATION.
- MATERIALS -- WEED BARRIER FABRIC: ALL FOUNDATION PLANTING BEDS SHALL BE INSTALLED AN APPROVED WITH WEED BARRIER FABRIC. NO PLASTIC/IMPERVOUS BARRIERS WILL BE PERMITTED. EXAMPLE: BLACK VISQUEEN.
- B. MATERIALS MULCH: LARGE AND MEDIUM DECIDIOUS TREES WITHIN LAWN AREAS TO RECEIVE A MINIMUM 6' TREE RING. TREE RING TO BE MULCHED WITH INFLLY SHREDDED, WEED FIRE, CEDAR BARK MULCH (DYE-FREE) SPREAD TO A CONSISTENT DEPTH OF THREE INCHES OWER ENTIRE AREA. FERTILIZER SHALL BE IN ACCORDANCE WITH DANG COUNTY AND STATE OF WISCONSIN REQUIREMENTS. A SHOVEL-CUT EDGE TO BE INSTALLED AT A MINIMUM RADIUS OF 5' FROM CENTRAL LEADER OF TREE.
- SEED: ALL DISTURBED LAWN AREAS SHALL BE SEEDED WITH EARTH CARPET'S BOULEVARD' OR EQUIVALENT AS
  APPROVED BY THE OWNER'S REPRESENTATIVE, INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. IN ADDITION TO
  LAWN SEED, ANNUAL RYE SHALL BE APPLIED TO ALL DISTURBED AREAS AT A RATE OF 1 1/2 LBS PER 1000
  SOURAR FEET. FERTILIZE AND MULCH PER MANUFACTURER'S RECOMMENDATIONS.
- 10. PRUMING: THE CONTRACTOR SHALL PRUNE ALL TREES AND REPAIR ANY INJURIES THAT OCCURRED DURING THE PLANTING PROCESS. DOUBLE LEADERS, DEAD BRANCHES, AND LIMBS DAMAGED OR BROKEN DURING THE PLANTING PROCESS SHALL BE PRUNED. THIS SHALL BE THE ONLY PRUMING ALLOWED AT PLANTING. PRUMING SHALL CONFORM TO AMERICAN STANDARD FOR TREE CARE OPERATIONS, ANSI AJOD. PRUNE TREES IN ACCORDANCE WITH NAA GUIDELINES. DO NOT TOP TREES. PRUME SKRIBS ACCORDING TO STANDARD HORTICULTURAL PRACTICES. ON CUTS OVER 3/4" IN DIAMETER AND BRUISES OR SCARS ON BARK, TRACE THE INJURED CAMBIUM LAYER BACK TO LIVING TISSUE AND REMOVE. SMOOTH AND SHAPE WOUNDS SO AS NOT TO RETAIN WATER AND COAT THE TREATED AREA WITH AN APPROVED ANTISEPTIC TREE PAINT.
- 11. CLEANUP: DISPOSED OF EXCESS SOIL. REMOVE ALL CUTTINGS AND WASTE MATERIALS. SOIL, BRANCHES, BINDING AND WRAPPING MATERIALS, REJECTED PLANTS, OR OTHER DEBRIS RESULTING FROM ANY PLANTING SHALL BE PROMPTLY CLEANED UP AND REMOVED. THE WORK AREA SHALL BE KEPT SAFE AND MEAT AT ALL THAS UNTIL THE CLEANUP OPERATION IS COMPLETED. UNDER NO CONDITION SHALL THE ACCUMULATION OF SOIL BRANCHES OR OTHER DEBRIS BE ALLOWED UPON A PUBLIC PROPERTY IN SUCH A MANNER AS TO RESULT IN A PUBLIC HAZARD. LIKEMSE, UNDER NO CIRCUMSTANCES SHALL ANY DEBRIS OR INCIDENTAL MATERIALS BE ALLOWED UPON ADJACENT PRIVATE PROPERTY.
- PROVALE PROPERTY.

  12. MAINTENANCE: (CONTRACTOR) FOR ALL PLANTINGS, BUFFER AREAS AND SEEDED LAHM AREAS: THE CONTRACTOR SHALL MAINTAIN ALL PLANTINGS AND LAWN AREAS FOR AT LEAST A PERIOD OF 30 DAYS, OR UNTIL FINAL ACCEPTANCE FROM THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ADEQUATELY WATERING PLANTS AND LAWN OURING THIS 30 DAY ESTABLISHMENT FERIOD. CONTRACTOR IS RESPONSIBLE FOR THE ESTABLISHMENT OF HEALTHY MOGROUS PLANT MATERIALS AND LAWN/TURFORASS GROWIN. CONTRACTOR IS ALSO RESPONSIBLE FOR ANY PRUNKING OF PLANT MATERIALS, AND SHAPING AND/OR PERLOCLEUR TO DEFICIENT BARK MULCH DURING THIS PERIOD. LONG TERM PLANT MATERIALS AND LAWN/TURFORASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFORASS MAINTENANCE AND ANY PROGRAM FOR SUCH IS THE RESPONSIBILITY OF THE OWNER. ALL PLANTINGS AND LAWN/TURFORASS AREAS SHALL BE MAINTAINED IN A MANICURED CONDITION.
- 13. MAINTENANCE: (DWNER) THE OWNER IS RESPONSIBLE FOR THE CONTINUED MAINTENANCE, REPAIR AND REPLACEMENT OF ALL LANDSCAPING MATERIALS AND BARRIERS AS NECESSARY FOLLOWING THE ONE (1) YEAR CONTRACTOR GUARANTEE PERIOD.

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LANDSCAPE ARCHITECTURE MADISON REGIONAL OFFICE

181 HORIZON DRIVE, SUITE 101 VERONA, WISCONSIN 53593 608.848.5060 PHONE 608.848.2255 FAX

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SARA INVESTMENT **REAL ESTATE LLC** 

6264 NESBITT ROAD MADISON, WI 53719

KOMBUCHA TEA **PRODUCTION** 

ROJECT LOCATION CITY OF MADISON DANE COUNTY, WI

THOUGH EVERY EFFORT HAS BEEN MADE PREPARING THESE PLANS AND CHECKING HEM FOR ACCURACY, THE CONTRACTOR AND SUBCONTRACTORS MUST CHECK ALL ETAIL AND DIMENSIONS OF THEIR TRADE

AND BE RESPONSIBLE FOR THE SAME.

08-3287

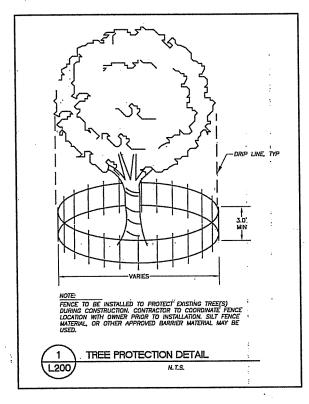
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DRAWN: JLF	02-05-13
APPROVED: MAS	02-05-13 02-05-13 02-11-13
PLAN MODIFICATIONS:	DATE:
CITY OF MADISON	02-12-13
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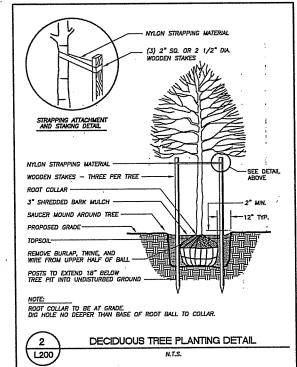


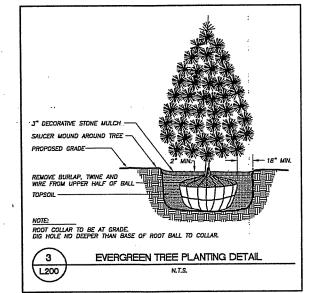
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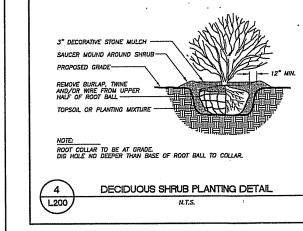
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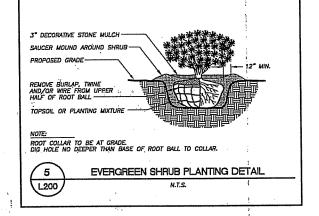
LANDSCAPE PLAN

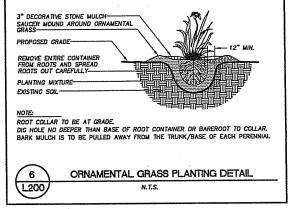














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DESIGNE	JLF	02-05-13
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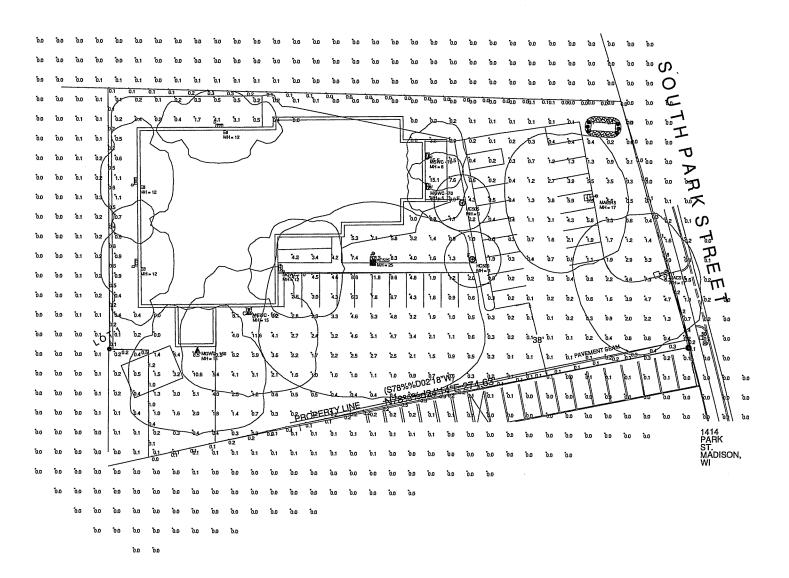


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LANDSCAPE DETAILS

# RUUD LIGHTING **DIRECT**

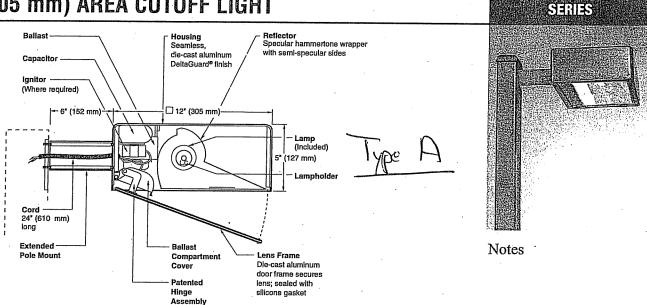
0 40'



Label	Avg	Max	Min	Avg/Min	Max/Mr
PROPERTYLINE	0.38	7.1	0.0	N.A.	N.A.
SITE	1.00	25.5	0.0	N.A.	NA.
LOT	1.78	11.8	0.1	17.80	118.00

Symbol	Chy	Labol	Arrangement	Lumens/Lamo	LLF.	Description	Lum, Watt
- 7	2	MAC515	SNGLÉ	16000	0.800	MAC2515-M (150W HPS)	188
- 6	1	AC525	SNGLE	51000	0.800	AC2525-M (250W HPS)	300
_ 0	2	HC505	SNGLE	4000	0.800	HC0505-D (50W HPS)	66
- U	3	MGWC - 70	SNGLE	6400	0.800	MGWC0507-M (70W HPS)	90
4	2	MGWC - 150	SNGLE	16000		MGWC0515-M (150W HPS)	188
8	3	EB	SNGLE	6400	0.800	EB507-M (70W HPS)	86

### 12" (305 mm) AREA CUTOFF LIGHT



SPEC # WATTAGE CATALOG #								
		<b>PULSE START META</b>	L HALIDE					
	SPEC#	50W PSMH	MAC2405-(a)(b)					
	SPEC#	70W PSMH	MAC2407-(a)(b)					
	SPEC#	100W PSMH	MAC2410-(a)(b)					
	SPEC#	150W PSMH	MAC2615-(a)(b)					
-	HIGH PRESSURE SODIUM							
	SPEC#	50W HPS	MAC2505-(a)(b)					
	SPEC#	70W HPS	MAC2507-(a)(b)					
	SPEC#	100W HPS	MAC2510-(a)(b)					
X	SPEC#	150W HPS	MAC2515-(a)(b)					

		Options.

A SHE	
	(a) VOLTAGE SUFFIX KEY
D	120/277V (Standard: 50W HPS)
M	120/208/240/277V
	(Standard: PSMH; 70 -,150W HPS)
T	120/277/347V (Canada Only)
	(Standard: PSMH; 70 - 150W HPS)
1	120V (Standard: 35W HPS)
2	277V
27	277V Reactor (150W PSMH Only)
3	208V
4	240V
5	480V ( 70 – 150W HPS)
6	347V (Canada Only)
r	

For voltage availability outside the US and Canada, see Bulletin TD-9 or contact your Ruud Lighting authorized International Distributor.

	(b) OPTIONS (factory-installed)
-(a)F	Fusing
-(a)P	Button Photocell
-5P	External Photocell (for 480V)
Q	Quartz Standby (includes 100W quartz lamp) (N/A on 277V Reactor)

102.12

Specify (a) Single Voltage - See Voltage Suffix Key

#### GENERAL DESCRIPTION

60° forward throw sharp cutoff luminaire for HID lamp, totally enclosed. Housing is seamless. die-cast aluminum. Mounting consists of a 1.8" (44 mm) wide by 2.5" (64 mm) high by 6" (152 mm) long extruded aluminum arm. The arm is held in place with two 3/8" (9 mm) mounting rods fastened to a steel backing plate inside the pole, and by two nuts inside the fixture housing. Mounting rods are provided with sealing washers to prevent water leakage. Lens assembly consists of rigid aluminum frame and high-impact, clear-tempered glass.

#### ELECTRICAL

Fixture includes clear, medium-base lamp. Pulse-rated porcelain enclosed, 4kv-rated screwshell-type lampholder. Lamp ignitor included where required. All ballast assemblies are highpower factor and use the following circuit types:

120V Reactor

50 - 150W HPS

277V Reactor

150W PSMH

HX - High Reactance

50 - 150W PSMH; 50 - 150W HPS

CWA — Constant Wattage Autotransformer 150W PSMH - 480V

#### LABELS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in US and Canada for wet locations and enclosure classified IP65 per IEC 529 and IEC 598

#### FINISH

Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

#### PATERIE

US 4,689,729

	ACCESSORIES	
WG-12	Wire Guard	
BL-12	Backlight Shield	

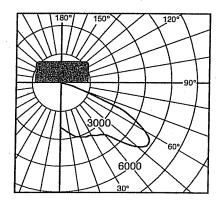
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# 12" (305 mm) AREA CUTOFF LIGHT

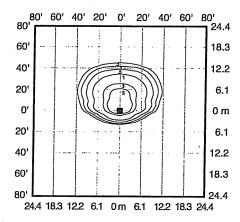
#### **EPA RATING**

Isofootcandle plots show initial footcandles at grade. (Footcandles ÷ 0.0929 = Lux)

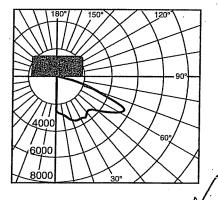
EPA 0.60 for single fixture with 0° tilt (Consult factory for EPA rating on multiple units).



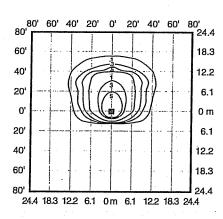
Lighting Sciences Inc. Certified Test Report No. LSI 14227 Candlepower distribution curve of 150W PSMH Rectangular Area Cutoff Floodlight, with backlight shield located for backlight cutoff.



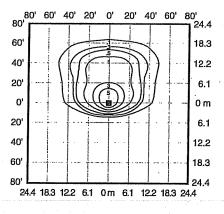
isofootcandle plot of 150W PSMH Area Cutoff Floodlight at 15' (4.6 m) mounting height, 0° vertical tilt, with backlight shield located for backlight cutoff. (Plan view)



Lighting Sciences Inc. Certified Test Report No. LSI 11233 Candlepower distribution curve of 150W HPS Rectangular Area Cutoff Floodlight, with backlight shield located for backlight cutoff.



Isofootcandle plot of 150W HPS Area Cutoff Floodlight at 15' (4.6 m) mounting height, 0° vertical tilt, with backlight shield located for backlight cutoff. (Plan view)



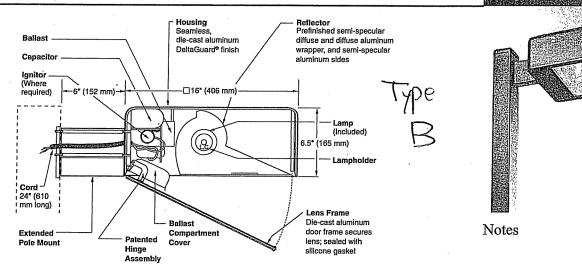
Isofoolcandle plot of 150W HPS Area Cutoff Floodlight at 20' (6.1 m) mounting height, 0° vertical tilt, with backlight shield located for backlight cutoff. (Plan view)

### Pole-spacing Example Data

<b>─  ₫</b> ′ ′ ′ ′ <b>₫</b>	Average Initial Light Levels at Grade
Test area is centered within a (16) pole layout.	(Footcandles $\div$ 0.0929 = Lux)
May Decommended Delegancing	Englandian I

Catalog #	Lamp Type	Lamp Lumens	<b>Mounting Height</b>	Max. Recommended Pole-spacing	Footcandles	Lux
MAC2410-M	100W PSMH	8,100	10' (3.0 m)	40' (12.1 m) x 55' (16.7 m)	4.92	53
			15' (4.6 m)	60' (18.3 m) x 85' (25.9 m)	2.04	22
MAC2510-M	100W HPS	9,500	10' (3.0 m)	40' (12.1 m) x 55' (16.7 m)	5.05	55
4			15' (4.6 m)	60' (18.3 m) x 85' (25.9 m)	2.08	22
MAC2515-M	150W HPS	16,000	15' (4.6 m)	60' (18.3 m) x 85' (25.9 m)	3.51	38
			20' (6.1 m)	75' (22.9 m) x 110' (33.5 m)	2.11	23 .





	SPEC		WATTAGE	CATALOG #	
	Marshushiya :	THE PERSON	ULSE START META	The state of the s	22
	SPEC#		150W PSMH	AC2615-(a)(b)	
	SPEC#		200W PSMH	AC2620-(a)(b)	_
	SPEC#		250W PSMH	AC2625-(a)(b)	_
	SPEC#	Ф	320W PSMH	AC2632-(a)(b)	
	SPEC#	Φ	350W PSMH	AC2635-(a)(b)	
	SPEC#	Φ.	400W PSMH	AC2640-(a)(b)	
			HIGH PRESS	SURE SODIUM	
M	SPEC#		250W HPS	AC2525-(a)(b)	-
	SPEC# .		400W HPS	AC2540-(a)(b)	
					_

Specify (a) Voltage & (b) Options. P Reduced envelope ED28 lamp.

	(a) VOLTAGE SUFFIX KEY
M	120/208/240/277V (Standard)
T.	120/277/347V (Canada Only) (Standard)
1	120V
2	277V
27	277V Reactor (PSMH Only)
3	208V
4	240V
5	480V ·
6	347V (Canada Only)
For vol	tone availability autoide the LIC and Canada, see Bulletin TD C or

contact your Ruud Lighting authorized International Distributor

	(b) OPTIONS (factory-installed)
-(a)F	Fusing
-(a)P	Button Photocell
-5P	External Photocell (for 480V)
Q	Quartz Standby (includes 100W quartz lamp) (IVA on 277V Reactor)

Specify (a) Single Voltage - See Voltage Suffix Key

#### GENERAL DESCRIPTION

60° forward throw sharp cutoff luminaire for HID lamp, totally enclosed. Housing is seamless. die-cast aluminum. Mounting consists of a 1.8" (44 mm) wide by 4.5" (114 mm) high by 6" (152 mm) long extruded aluminum arm. The arm is held in place with two 3/8" (9 mm) mounting rods fastened to a steel backing plate inside the pole, and by two nuts inside the fixture housing. Mounting rods are provided with sealing washers to prevent water leakage. Lens assembly consists of rigid aluminum frame and high-impact, clear-tempered glass.

#### BEHIRIPAR

Fixture includes clear, mogul-base lamp; 320 - 400W PSMH utilize the ED28 reduced envelope lamp. Pulse-rated porcelain enclosed, 4kv-rated screw-shell-type lampholder with spring-loaded center contact and lamp grips. Lamp ignitor included. All ballast assemblies are high-power factor and use the following circuit type:

277V Reactor 150 - 400W PSMH

HX- High Reactance 150W PSMH

CWA — Constant Wattage Autotransformer 200 - 400W PSMH; 250 - 400W HPS

#### PATENTS

US 4,689,729; 4,709,312

Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

#### LABILS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in US and Canada for wet locations and enclosure classified IP65 per IEC 529 and IEC 598.

E.			

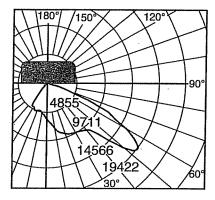
FWG-16 Wire Guard SBL-16 **Backlight Shield** 

### 16" (406 mm) AREA CUTOFF LIGHT

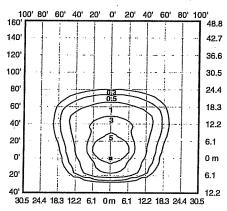
#### **EPA RATING**

Isofootcandle plots show initial footcandles at grade. (Footcandles ÷ 0.0929 = Lux)

EPA 0.95 for single fixture with 0° tilt (Consult factory for EPA rating on multiple units).

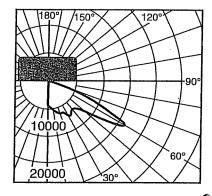


Candlepower distribution curve of 400W PSMH Area Cutoff Light without backlight shield.

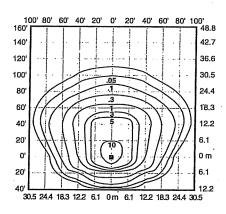


Isofootcandle plot of 400W PSMH Area Cutoff Light at 30' (9.1 m) mounting height, 0° vertical tilt, with backlight shield removed. (Plan view)

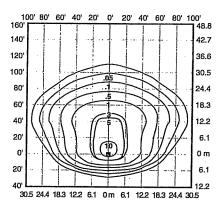




Lighting Sciences Inc. Certified Test Report No. LSI 10246 Candlepower distribution curve of 250W HPS Area Cutoff Light without backlight shield.



Isofootcandle plot of 400W HPS Area Cutoff Light at 25' (7.6 m) mounting height, 0° vertical tilt, with backlight shield removed. (Plan view)



Isofootcandle plot of 400W HPS Area Cutoff Light at 25' (7.6 m) mounting height, O° vertical tilt, with backlight shield located for backlight cutoff. (Plan view)

### **Pole-spacing Example Data**



Test area is centered within a (16) pole layout.

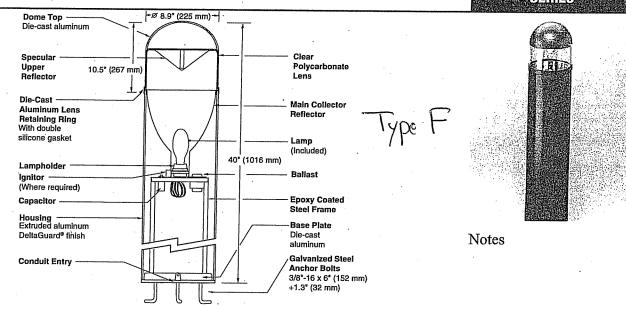
Average Initial Light Levels at Grade 2 Fixtures per pole @ 180° (Footcandles ÷ 0.0929 = Lux)

Max. Recommended Pole-spacing

Catalog #	Lamp Type	Lamp Lumens	<b>Mounting Height</b>	Wax. Recommended Pole-spacing X x Y	Footcandles	Lux
AC2615-M	150W PSMH	12,000	15' (4.6 m) 20' (6.1 m)	60' (18.3 m) x 85' (25.9 m) 75' (22.9 m) x 11' (33.5 m)	3.56 2.11	38 23
AC2625-M	250W PSMH	22,000	20' (6.1 m) 25' (7.6 m)	75' (22.9 m) x 110' (33.5 m) 95' (29.0 m) x 140' (42.7 m)	3.86 2.31	42 25
AC2640-M	400W PSMH	40,000	25' (7.6 m) 30' (9.1 m)	95' (29.0 m) x 140' (42.7 m) 115' (35.1 m) x 165' (50.3 m)	4.20 2.86	45 31
AC2525-M	250W HPS	28,500	20' (6.1 m) 25' (7.6 m)	75' (22.9 m) x 110' (33.5 m) 95' (29.0 m) x 140' (42.7 m)	4.83 2.89	52 31
AC2540-M	400W HPS	50,000	25' (7.6 m) 30' (9.1 m)	95' (29.0 m) x 140' (42.7 m) 115' (35.1 m) x 165' (50.3 m)	5.08 3.37	55 36



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	SPECE	WATTAGE	CATALOG#	
		PULSE START META	TOTAL STREET,	
	SPEC#	50W PSMH	HCD405-(a)(b)	
	SPEC#	70W PSMH	HCD407-(a)(b)	
	SPEC#	100W PSMH	HCD410-(a)(b)	
	SPEC#	HIGH PRESSURE	SODIUM	_
$\bowtie$	•	50W HPS	HCD505-(a)(b)	_
	SPEC#	70W HPS	HCD507-(a)(b)	
	SPEC#	100W HPS	HCD510-(a)(b)	
		FLUORESCEI	ТИ	
	SPEC#	26/32/42W CFL	HCD242-(a)(b)	

Specify (a) Voltage	& (b)	Options.
---------------------	-------	----------

	(a) VOLTAGE SUFFIX KEY
D	120/277V
	(Standard: 50W HPS)
M	120/208/240/277V
	(Standard: PSMH; 70 - 100W HPS)
T	120/277/347V (Canada Only)
	(Standard: PSMH: 70 - 100W HPS)
1	120V
2	277V
3	208V ·
4	240V
6	347V (Canada Only; 50 HPS Only)
UL	120 – 277V Universal Voltage
	(Electronic Ballast)

For voltage availability outside the US and Canada, see Bulletin TD-9 or contact your Ruud Lighting authorized International Distributor.

#### GENERAL DESCRIPTION

Extruded aluminum housing supplied internally with a formed and channeled 16 gauge steel frame supports the electrical components and main reflector. Housing fastens to a die-cast aluminum base with four 1/4"-20 phillips flat head screws. Base is secured to concrete footing using provided masonite template and three 3/8"-16 x 6" (152 mm) galvanized steel anchor bolts with leveling nuts and washers. Suggested poured base: 2' (610 mm) deep x 12" (305 mm) dia... depending on soil types and frost line in your area. A 3" (76 mm) dia. conduit opening is provided in the base for ease of wiring. Injection molded clear polycarbonate lens with specular collecting reflector attaches to the top of the housing with an overlapping die-cast aluminum retaining ring, held by two stainless-steel allen flat head fasteners. Die cast aluminum dome is held to the top of the lens with two #8 screws. Two silicone lens seals prevent moisture from entering the lens, while a double lip silicone seal at the top of the reflector and sealed lampholder prevent insects, dirt and moisture from entering the optical chamber.

#### ELECTRICAL

Fluorescent bollard includes a triple tube compact fluorescent lamp. HID bollards include a clear, medium-base lamp and porcelain enclosed, 4kv-rated screw-shell-type lampholder with spring-loaded center contact. Lamp ignitor included where required. All ballast assemblies are high-power factor and use the following circuit types:

Electronic 26/32/42W CFL

HX — High Reactance 50 – 100W PSMH; 50 – 100W HPS

#### PATENT

US PAT RE40,934

	(b) OPTIONS (factory-installed)
A	180° Shielded Clear Lens
-(a)F	Fusing
7	Tamperproof Lens Fasteners
-(a)LP	CFL Photocell
-(a)P	HID Photocell
016 /	-101 / 111

Specify (a) Single Voltage - See Voltage Suffix Key

#### LABELS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in the US and Canada for wet locations and enclosure classified IP65 per IEC 529 and IEC 598.

#### FINISH

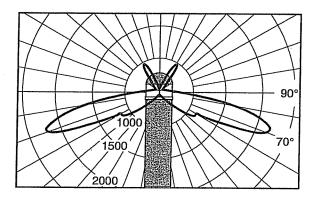
Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze acrylic powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

	ACCESSORIES
HCL	Louver
TPS-1	Tamperproof Screwdriver

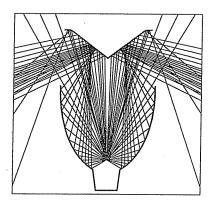


### **ROUND BOLLARD**

(Footcandles ÷ 0.0929 = Lux)

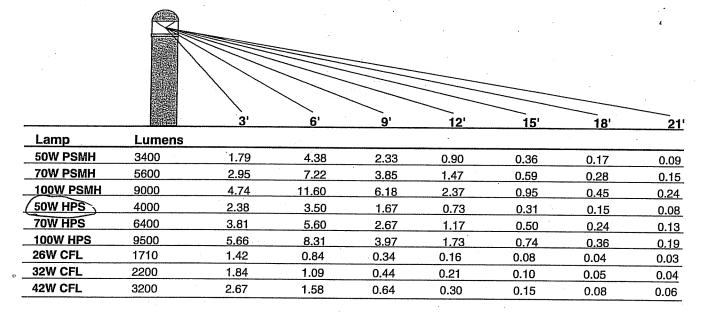


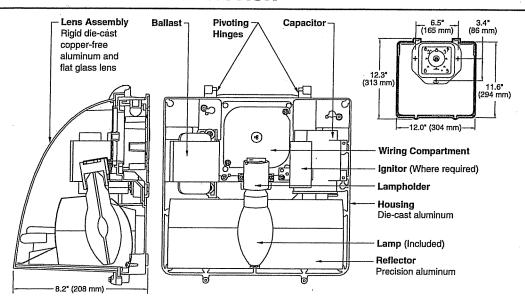
Lighting Sciences Inc. Certified Test Report No. LSI 9728R Candlepower distribution curve of 100W MH Round Bollard with clear lens.

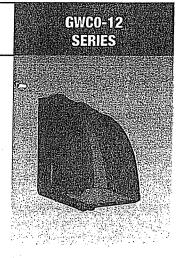


Ray Trace showing light distribution of patented reflector system.

Use this chart to determine initial Footcandle levels at grade for the HCD Series Round Bollard with clear, dome top lens.







N.I	~1	
1 1	4 11	

SPEC# W	/ATT/AC		CATALO	Œ
PULSE	START	METAL	HALIDE	

	SPEC#	50W PSMH	MGWC0405-(a)(b)
	SPEC#	70W PSMH	MGWC0407-(a)(b)
	SPEC#	100W PSMH	MGWC0410-(a)(b)
	SPEC#	150W PSMH	MGWC0615-(a)(b)
		HIGH PRESSU	RE SODIUM
	SPEC#	50W HPS	MGWC0505-(a)(b)
図	SPEC#	70W HPS	MGWC0507-(a)(b)

Specify (a) Voltage & (b) Options.

**100W HPS** 

150W HPS

SPEC#

SPEC#

### GENERAL DESERVATIONE

MGWC0510-(a)(b)

MGWC0515-(a)(b)

Full Cutoff Wall Pack fixture for HID lamp, totally enclosed. Housing is seamless copper-free die-cast aluminum. Lens assembly consists of a hinged, rigid die-cast copper-free aluminum frame and clear borosilicate glass lens held securely inside. Lens frame is easily removable and allows for easy attachment and serviceability using top pivoting hinge. Complete silicone gasketing around lens and gasketing at mounting provide a watertight seal. A precision specular aluminum reflector provides forward throw with wide distribution to ensure wide fixture spacings and maximum light levels. Fixture design provides excellent IES Full Cutoff light distribution without glare. The optical chamber is sealed to reduce dirt and insect contamination. Furnished with e-coated, copper-free, lightweight mounting box designed for installation over standard 4-inch square or octagonal and single-gang J boxes and for conduit entry from top, sides and rear. Designed and approved for easy through-wiring. All fixtures use vertical-lamp position.

	(a) NOLTAGE SUFFIX KEY
D	120/277V (Standard: 50W HPS)
M	120/208/240/277V
	(Standard: PSMH; 70 – 150W·HPS)
T	120/277/347V (Canada Only)
	(Standard: PSMH; 70 - 150W HPS)
1	120V
2	277V
27	277V Reactor (150W PSMH Only)
3	208V
4	240V
5	480V (70 - 100W PSMH; 70 - 100W HPS)
6	347V (Canada Only)

For voltage availability outside the US and Canada, see Bulletin TD-9 or contact your Ruud Lighting authorized International Distributor.

#### E TETERITIES E

Fixture includes clear, medium-base lamp. Pulse-rated porcelain enclosed, 4kv-rated screwshell-type lampholder. Lamp ignitor included where required. Fixtures require a minimum 90°C temperature feed wire. All ballast assemblies are high-power factor and use the following circuit types:

120V Reactor 50 - 150W HPS 277V Reactor 150W PSMH

HX — High Reactance 50 - 150W PSMH; 50 - 150W HPS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in the US and Canada for wet locations.

	(b) OPTIONS (factory-installed)
-(a)F	Fusing
-(a)P	Button Photocell
Q	Quartz Standby
	(includes 100W quartz lamp)
	(N/A on 277V Reactor)

Specify (a) Single Voltage - See Voltage Suffix Key



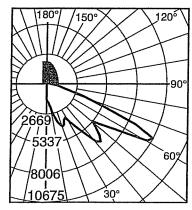
#### FINISH

Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

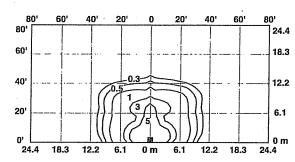
#### PATENTS

6,867,959; 7,354,177; D577,146; Patents Pending.

Isofootcandle plots show initial footcandles at grade. (Footcandles ÷ 0.0929 = Lux)

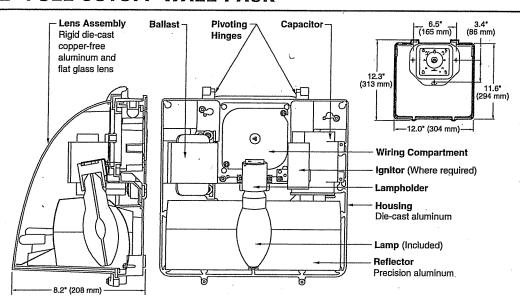


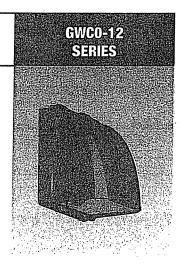
Candlepower Distribution Curve of 150W PSMH 12" AeroDome Full Cutoff Wall Pack.



Isofootcandle plot of one 150W PSMH 12" AeroDome Full Cutoff Wall Pack at 15' (4.6 m) mounting height (plan view).

Type E





N	0	te:
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	PERMIT	Alego Parkar Control of the se	VANCOUS COMMENTS OF THE PROPERTY OF	
	S230	是以此以	CATALOG#	
		PULSE START N	TETAL HALIDE	
	SPEC#	50W PSMH	MGWC0405-(a)(b)	
	SPEC#	70W PSMH	MGWC0407-(a)(b)	
	SPEC#	100W PSMH	MGWC0410-(a)(b)	
	SPEC#	150W PSMH	MGWC0615-(a)(b)	
HIGH PRESSURE SODIUM				
	SPEC#	50W HPS	MGWC0505-(a)(b)	
	SPEC#	70W HPS	MGWC0507-(a)(b)	
1	SPEC#	100W HPS	MGWC0510-(a)(b)	
X	SPEC#	150W HPS	MGWC0515-(a)(b)	

Specify (a) Voltage & (b) Options.

#### GENERAL DESCRIPTION

Full Cutoff Wall Pack fixture for HID lamp, totally enclosed. Housing is seamless copper-free die-cast aluminum. Lens assembly consists of a hinged, rigid die-cast copper-free aluminum frame and clear borosilicate glass lens held securely inside. Lens frame is easily removable and allows for easy attachment and serviceability using top pivoting hinge. Complete silicone gasketing around lens and gasketing at mounting provide a watertight seal. A precision specular aluminum reflector provides forward throw with wide distribution to ensure wide fixture spacings and maximum light levels. Fixture design provides excellent IES Full Cutoff light distribution without glare. The optical chamber is sealed to reduce dirt and insect contamination. Furnished with e-coated, copper-free, lightweight mounting box designed for installation over standard 4-inch square or octagonal and single-gang J boxes and for conduit entry from top, sides and rear. Designed and approved for easy through-wiring. All fixtures use vertical-lamp position.

	(a) VOLTAGE SUFFIX KEY
D	120/277V (Standard: 50W HPS)
M	120/208/240/277V
	(Standard: PSMH; 70 – 150W HPS)
T	120/277/347V (Canada Only)
	(Standard: PSMH; 70 – 150W HPS)
1	120V
2	277V ·
27	277V Reactor (150W PSMH Only)
3	208V
4	240V
5	480V (70 - 100W PSMH; 70 - 100W HPS)
6	347V (Canada Only)

For voltage availability outside the US and Canada, see Bulletin TD-9 or contact your Ruud Lighting authorized International Distributor

#### ELECTRICAL

Fixture includes clear, medium-base lamp. Pulse-rated porcelain enclosed, 4kv-rated screwshell-type lampholder. Lamp ignitor included where required. Fixtures require a minimum 90°C temperature feed wire. All ballast assemblies are high-power factor and use the following circuit types:

120V Reactor 50 - 150W HPS 277V Reactor 150W PSMH

HX - High Reactance 50 - 150W PSMH: 50 - 150W HPS

#### LOBERS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in the US and Canada for wet locations.

	(b) OPTIONS (factory-installed)
-(a)F	Fusing
-(a)P	Button Photocell .
Q	Quartz Standby
	(includes 100W quartz lamp)
	(N/A on 277V Reactor)

Specify (a) Single Voltage - See Voltage Suffix Key

TypeC

#### FINISH \*\*

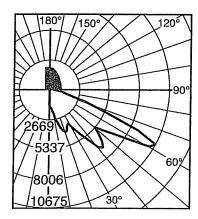
Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

#### PATERIS

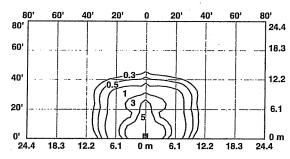
6,867,959; 7,354,177; D577,146; Patents Pending.



Isofootcandle plots show initial footcandles at grade. (Footcandles ÷ 0.0929 = Lux)



Candlepower Distribution Curve of 150W PSMH 12" AeroDome Full Cutoff Wall Pack.

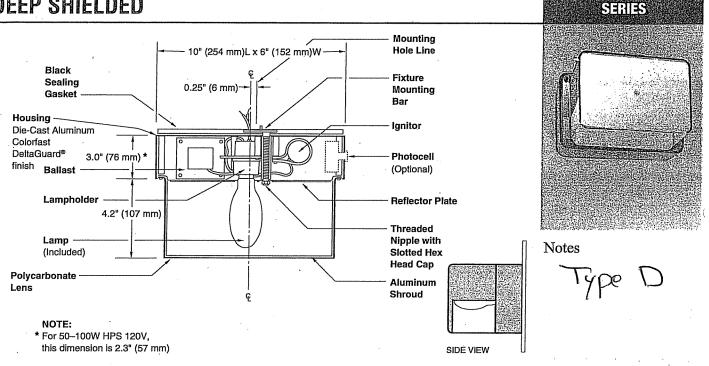


Isofootcandle plot of one 150W PSMH 12" AeroDome Full Cutoff Wall Pack at 15' (4.6 m) mounting height (plan view).

Type C

#### RECTANGULAR HID WALL MOUNT

### **DEEP SHIELDED**



	SPER	MOUNTING POSITION	WATTAGE	CAVALOG#	
	PULSE START METAL HALIDE				
	SPEC#	Wall			
أسنا		Downlight	50W PSMH	E8405-(a)(b)	
	SPEC#	Wall			
	SPEC#	Downlight	70W PSMH	E8407-(a)(b)	
		HIGH P	RESSURE SODI	UM .	
	SPEC#	Any	50W HPS	E8505-(a)(b)	
10/1	anna u	Wall			
LXI	SPEC#	Downlight	70W HPS	E8507-(a)(b)	
	SPEC#	Wall			
	SPEC#	Downlight	100W HPS	E8510-(a)(b)	
Specify (a) Voltage & (h) Options					

### GENERAL DESCRIPTION

Aluminum die-cast ballast housing features a thermal air isolation chamber separating the ballast core and coil from the other electrical components. Supplied with a neoprene sealing gasket for complete weatherproofing at the mounting surface. A silicone rubber seal is furnished between housing and lens to ensure a water- and insect-tight seal. Steel fixture mounting bar and threaded nipple provided for direct mounting to recessed junction box. Clear polycarbonate lens is fastened to housing with phillips-head captive stainless-steel screws. Combination of internal polished aluminum shroud (inside painted white and outside painted silver on 100W HPS) and diffuse reflector plate provides front brightness shielding without sacrificing wide light distribution.

	(a) VOLTAGE SUFFIX KEY
D	120/277V (50W HPS)
M	120/208/240/277V (Standard: 50 – 70W PSMH) (50 – 100W HPS)
T ·	120/277/347V (Canada Only) (70W PSMH; 70 – 100W HPS)
1	120V (Standard: 50 – 100W HPS)
2	277V
3	208V .
4	240V
6.	347V (Canada Only) (50W HPS)
	tage availability outside the US and Canada, see Bulletin TD-9 or

#### ELECTRICAL

Fixture includes clear, medium-base lamp and porcelain enclosed, 4kv-rated screw-shell-type lampholder with spring-loaded center contact. Lamp ignitor included where required. All ballast assemblies are normal power factor and use the following circuit types:

Reactor (120V only) 50 - 100W HPS

HX - High Reactance

50 - 70W PSMH; 50 - 100W HPS

#### LABELS

ANSI lamp wattage label supplied, visible during relamping. UL Listed in the US and Canada for wet locations and enclosure classified IP54 per IEC 529 and IEC 598.

	(b) OPTIONS (factory-installed)			
BS	Bronze Color Shroud			
GS	Gold Color Shroud (n/a on 100W HPS)			
Н	High Power Factor Ballast			
J	Tamperproof Lens Fasteners			
-(a)P	Photocell			

FOR

Specify (a) Single Voltage - See Voltage Suffix Key

#### FINISH

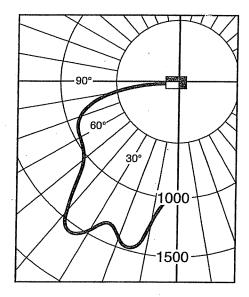
Exclusive Colorfast DeltaGuard® finish features an E-coat epoxy primer with medium bronze acrylic powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. The finish is covered by our seven-year limited warranty.

ACCESSORIES				
ESB-7	Surface Mounting Box			
TPS-1	Tamperproof Screwdriver			



#### **RECTANGULAR HID WALL MOUNT**

### **DEEP SHIELDED**



AN	GLE	MEAN CP	ANGLE	MEAN CP
1	0.0	853	60.0	491
	5.0	1166	62.5	950
	0.0	1264	65.0	1197

isofootcandle plots show initial footcandles at grade. (Footcandles ÷ 0.0929 = Lux)

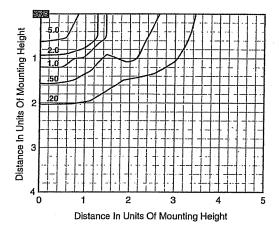
1605 67.5 903 20.0 1506 70.0 851 25.0 1610 72.5 30.0 1416 831 32.5 1758 75.0 783 35.0 1719 77.5 766 40.0 1540 0.08 800 45.0 1218 82.5 806 50.0 1293 85.0 382 52.5 906 87.5 205 55.0 500 90.0 57.5 563 8

Maximum Candlepower: 1758 Plane of Maximum CP: 105.0° Vertical Angle of Maximum Candlepower: 32.5° Lumen Rating: 6400

#### Front View

Lighting Sciences Inc. Certified Test Report No. LSI 7361 Candlepower distribution curve of 70W HPS Rectangular Deep Shielded Fixture.

#### EFFICIENCY = 57.6%



DISTANCE ALONG SPACING RATIO = -MOUNTING HEIGHT

Isofootcandle plot of 70W HPS Rectangular Deep Shielded fixture at 10' (3 m) mounting height. (Plan view)

#### **MOUNTING HEIGHT CONVERSION TABLE**

Footcandle readings for mounting heights other than 10' (3 m) may be obtained by multiplying fc values by the following:

HEIGHT	MULTIPLIER	
7.0' (2.1 m)	2.04	
8.0' (2.4 m)	1.56	
9.0' (2.7 m)	1.23	
12.0' (3.7 m)	0.69	
15.0' (4.6 m)	0.44	
20.0' (6.1 m)	0.25	

#### **LAMP WATTAGE CONVERSION TABLE**

Footcandle readings for wattages and lamp types other than 70W HPS may be obtained by multiplying fc values by the following:

LAMP/WATTAGE	MULTIPLIER
50W PSMH	0.48
70W PSMH	0.79
100W PSMH	1.27
50W HPS	0.63
100W HPS	1.49

