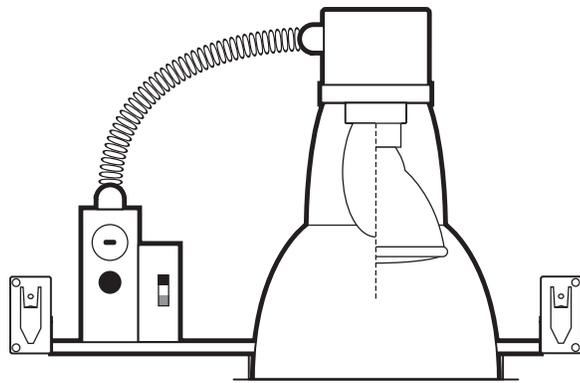


4" CERAMIC METAL HALIDE DOWNLIGHT



Clear Alzak® Haze



Wheat Alzak® Haze



Black Baffle

SPECIFICATION INFORMATION

HOUSING ASSEMBLY

- Pre-coated galvanized steel mounting frame and J-box.
- Telescopic bar hangers supplied, provides for off-center mounting on joists or T-bar.
- .063 aluminum lampholder securely fastens to reflector, provides thermally efficient operation.
- Self flange type trim for clean, contemporary appearance.
- Ground wire included (prewired).

REFLECTOR

- Thirty degree (30°) cutoff.
- Anodized, haze, durable and anti-iridescent.
- Finishes: **A**—Clear Alzak® Haze, and **G**—Wheat Alzak® Haze.

BALLAST

- Electronic ballast, universal voltage 120V through 277V.
- Thermally protected.
- .99 power factor with THD < 10%.
- End of lamp life protection.
- **Use only ceramic protected metal halide lamps.**

ELECTRICAL

- Allows 4-in/4-out #12 AWG conductors rated at minimum 90° C.
- J-box and ballast are both accessible through fixture.
- U.L. classified for retro-fit.

ACCESSORIES

- **B**—black baffle
- **P**—trim flange painted white
- **CP**—Chicago plenum
- **OT6**—white oversize trim ring (adds 5/8" to flange)
- **FS**—inline fuse
- **Q**—quartz restrike

ORDERING INFORMATION

LAMP

1-70 70W ED17, PAR30

120V

RMH4070.A30.1 70W 30°

277V

RMH4070.A30.2 70W 30°

SUBMITTAL INFORMATION

TYPE: 4"

PROJECT:

NOTES:

DESCRIPTION:

RMH4070.A30.UEMC4.RP.CM.SPII

4" aperture, 70W CMH with remodel pan to fit existing aperture. Universal voltage, solid state ballast.

DELRAY
LIGHTING
INCORPORATED

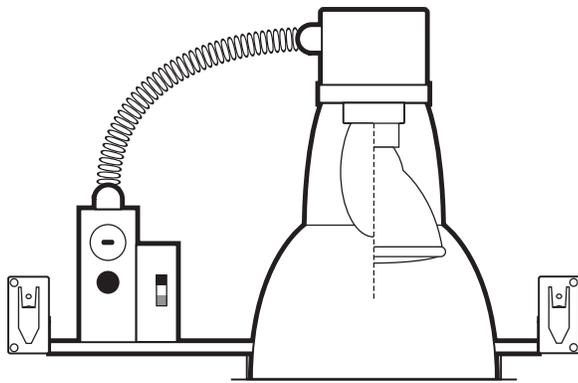
RMH4070

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May 10, 2010
Page 1

JAN 2010

4" CERAMIC METAL HALIDE DOWNLIGHT



Clear Alzak® Haze



Wheat Alzak® Haze



Black Baffle

SPECIFICATION INFORMATION

HOUSING ASSEMBLY

- Pre-coated galvanized steel mounting frame and J-box.
- Telescopic bar hangers supplied, provides for off-center mounting on joists or T-bar.
- .063 aluminum lampholder securely fastens to reflector, provides thermally efficient operation.
- Self flange type trim for clean, contemporary appearance.
- Ground wire included (prewired).

REFLECTOR

- Thirty degree (30°) cutoff.
- Anodized, haze, durable and anti-iridescent.
- Finishes: **A**—Clear Alzak® Haze, and **G**—Wheat Alzak® Haze.

BALLAST

- Electronic ballast, universal voltage 120V through 277V.
- Thermally protected.
- .99 power factor with THD < 10%.
- End of lamp life protection.
- **Use only ceramic protected metal halide lamps.**

ELECTRICAL

- Allows 4-in/4-out #12 AWG conductors rated at minimum 90° C.
- J-box and ballast are both accessible through fixture.
- U.L. classified for retro-fit.

ACCESSORIES

- **B**—black baffle
- **P**—trim flange painted white
- **CP**—Chicago plenum
- **OT6**—white oversize trim ring (adds 5/8" to flange)
- **FS**—inline fuse
- **Q**—quartz restrike

ORDERING INFORMATION

LAMP

1-39 39W ED17, PAR30

120V

RMH4039.A30.1 39W 30°

277V

RMH4039.A30.2 39W 30°

SUBMITTAL INFORMATION

TYPE: 4"

PROJECT:

NOTES:

DESCRIPTION:

RMH4039.A30.UEMC4.RP.CM.SPII

4" aperture, 39W CMH with remodel pan to fit existing aperture. Universal voltage, solid state ballast.

DELRAY
LIGHTING
INCORPORATED

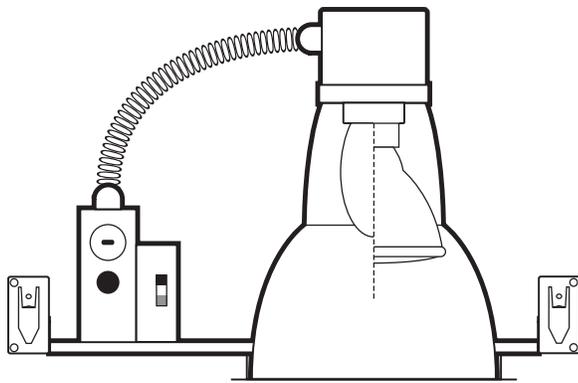
RMH4039

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Page 2

JAN 2010

4" CERAMIC METAL HALIDE DOWNLIGHT



Clear Alzak® Haze



Wheat Alzak® Haze



Black Baffle

SPECIFICATION INFORMATION

HOUSING ASSEMBLY

- Pre-coated galvanized steel mounting frame and J-box.
- Telescopic bar hangers supplied, provides for off-center mounting on joists or T-bar.
- .063 aluminum lampholder securely fastens to reflector, provides thermally efficient operation.
- Self flange type trim for clean, contemporary appearance.
- Ground wire included (prewired).

REFLECTOR

- Thirty degree (30°) cutoff.
- Anodized, haze, durable and anti-iridescent.
- Finishes: **A**—Clear Alzak® Haze, and **G**—Wheat Alzak® Haze.

BALLAST

- Electronic ballast, universal voltage 120V through 277V.
- Thermally protected.
- .99 power factor with THD < 10%.
- End of lamp life protection.
- **Use only ceramic protected metal halide lamps.**

ELECTRICAL

- Allows 4-in/4-out #12 AWG conductors rated at minimum 90° C.
- J-box and ballast are both accessible through fixture.
- U.L. classified for retro-fit.

ACCESSORIES

- **B**—black baffle
- **P**—trim flange painted white
- **CP**—Chicago plenum
- **OT6**—white oversize trim ring (adds 5/8" to flange)
- **FS**—inline fuse
- **Q**—quartz restrike

ORDERING INFORMATION

LAMP

1-39 39W ED17, PAR30

120V

RMH4039.A30.1 39W 30°

277V

RMH4039.A30.2 39W 30°

SUBMITTAL INFORMATION

TYPE: 4"

PROJECT:

NOTES:

DESCRIPTION:

RMH4039.A30.UEMC4.RP.CM.SPII

4" aperture, 39W CMH with remodel pan to fit existing aperture. Universal voltage, solid state ballast.

DELRAY
LIGHTING
INCORPORATED

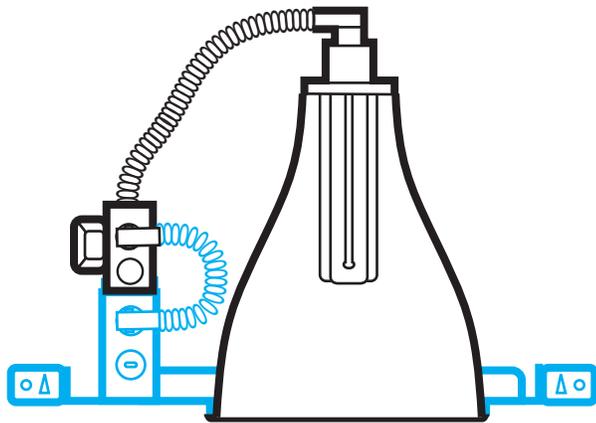
RMH4039

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May 10, 2010
Page 3

JAN 2010

6" VERTICAL RETRO SYSTEM SINGLE LAMP DOWNLIGHT



Clear Alzak® Haze



Wheat Alzak® Haze



Black Baffle

SPECIFICATION INFORMATION

RETRO SYSTEM

Installs into existing downlights mounting frame, J-box, and mounting hardware. Consists of precisely designed reflector; lampholder with twist lock socket; flex, cap and wire; and ballast attached to J-box. (Voltage options must be specified). Accessory mounting clips are not required for all installations, however when needed specify mounting clip **MC** from accessories column. (see Clip spec page for further information).

REFLECTOR

Reflector is available in thirty degree cutoff .30 for general illumination. Finishes are clear **A** and wheat **G** Alzak for anodized, specular, durable and anti-iridescent reflectors.

BALLAST

Electronic, universal voltage 120V through 277V, use 4 pin lamps and provide rapid start, .98 power factor with THD<10%. Outboard mounting provides quiet cool operation. Dimming ballast **D3** controls lumen output down to $\pm 5\%$ and is compatible with incandescent dimmers. Consult ballast spec page for further details.

ELECTRICAL

Allows 4-in / 4-out #12 AWG conductors rated at minimum 90° C. For use in damp locations. J-box and ballast are accessible through fixture. U.L. Classified for fluorescent retro-fits

ACCESSORIES

AL acrylic security lens
B black baffle
D3 dimming ballast
G wheat Alzak reflector
JM / UM J-box mount (see options)
MC1 mounting clips for high hat style housings like H7, R10 and MX7.
MC2 mounting clips for die cast plaster frames.
MC4 bottom feed clips.
MC5 slide clips for flat plaster frames.
MC6 bottom feed clips for die cast aluminum mounting frames.
OT6 white oversize trim ring
P trim flange painted white
QC quick connect screw-in cap
RP remodel pan

ORDERING INFORMATION

LAMP

1-57 57W triple tube

120-277V

RV6157.A30.UE Clear Alzak 30°

SUBMITTAL INFORMATION

TYPE: 6"

PROJECT:

NOTES:

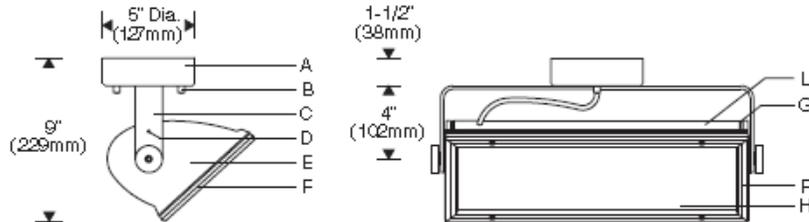
DESCRIPTION:

RV6157.A30.UE.MC4.OT6.QC-UNV-EL.STL

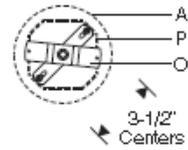
57W 6" retro system with remodel pan to fit existing aperture. Universal voltage, solid state ballast.

Elliptical Tungsten Wall Wash Fixture

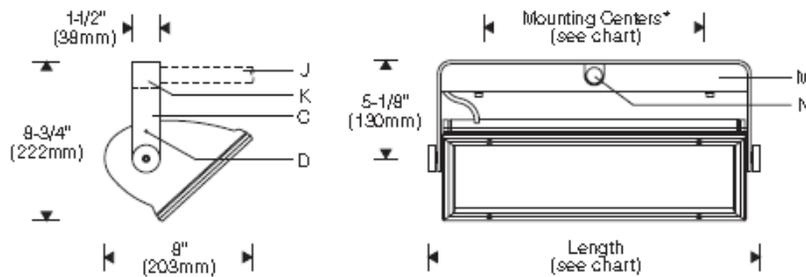
E Mount 1:10 Scale



Canopy (E mount)



Y Mount 1:10 Scale



Wattage	Source	Length	Mounting*
300-500	Halogen	12-1/16" (306mm)	8-7/8" (225mm)
150	MH	17-13/16" (452mm)	14-5/8" (370mm)
900-1000	Halogen	24-7/8" (632mm)	21-11/16" (550mm)

* Dimension for Y mount only.

Specifications

A Aluminum canopy (E mount)	E Die-cast end plates	H Micro-prismatic tempered glass lens	L Specular extruded aluminum reflector
B Chrome cap nuts	F Mitred extruded aluminum door frame with silicone gasket	J Conduit (by others)	M Aluminum splice cover
C Aluminum yoke	G Aluminum reveal plates (black)	K Integral splice compartment	N Conduit entry
D Locking set screw			O Pivoting hanger bar
			P Outlet box (by others)

Finish:

Style 103 fluted – bright clear anodized aluminum housing and door frame. Painted end plates, yoke and canopy in choice of silver or semi-gloss black.

Style 104 smooth – semi-gloss white exterior, door frame, end plates, yoke and canopy.

Painted surfaces – 6 stage pretreatment and electrostatically applied thermoset powder coat for stable, long lasting and corrosion resistant finish.

Reflector and internal end plates – extruded high purity aluminum with clear anodized specular finish. All luminaire hardware – stainless steel. All mounting hardware – zinc or cadmium plated.

Mounting:

E mount – canopy mounts over recessed outlet box.

Y mount – surface mounted yoke attaches with 1/4 inch fasteners (by others) concealed under splice cover.

Pendant or cantilever mounting assembly ordered separately; specify X mount.

Track mounting available for tungsten halogen up to 500W; specify K mount. Consult factory.

REV. 8/08

Electrical:

Use 90°C wire for supply connections.

Y mount – integral splice compartment with one 7/8" diameter entry for exposed raceway/conduit (by others). Entry can be reversed in field to opposite side of yoke.

Tungsten halogen – recessed single contact (RSC) lampholders in patented clamping supports for maximum heat dissipation.

Metal halide – remote encapsulated constant wattage autotransformer (CWA) or electronic ballast. Mogul lampholder is pulse rated for use with either horizontal or universal position reduced envelope pulse start lamps. End-of-lamp aligner ensures consistent optical performance.

For complete ballast specifications, see Accessories Section.

Standard:

UL listed or CSA certified for damp locations (Style 104 painted model recommended for damp locations).

Where pendant or cantilever may be exposed to wind, consult factory.



Retro Fit Kit

89ea GKA-226- Retro Fit Kit
Part# GKA-226-REF-SPII-277V

Consisting of:
1ea Universal QTP2X26/32/42CF/UNV DM
2ea G24d Sockets Assembly with Alzak Reflector

Kit to be installed in existing Elliptipar Tungsten Fixture Catalog#
4511-P Large Wall Wash Fixture.

Fixture to be removed and retro fitted and UL Listed at a Certified
UL shop.

Product must be CEE Approved, meet Energy Star Ratings, and
meet ARRA (American Recovery and Reinvestment Act)
requirements.



Benefits

- Reduced energy consumption and operating costs by up to 75%.
- Maintenance free operation - lasts up to 25 times longer than conventional lighting.
- Cool beam- No UV or IR, reduces air conditioning loads.
- Unique design with anodized silver housing for cooler operation and extended lamp life.
- Environmentally friendly – fully recyclable, no mercury or other hazardous materials.

R38 SP002
Oct 2009

SöL™ R38 Lamp

Dimmable & Non-Dimmable

Patented design houses an integrated LED system for optimum lifetime performance. Excellent optics create a uniform beam, delivering lumen output comparable to conventional sources. Free of harmful UV and IR emissions.

Available in 30° beam distribution, in both warm and cool color temperatures with good color quality.

Features

Lumen Output

Warm White	640
Cool White	830

Equivalent Source	75 Watt Halogen Lamp
--------------------------	----------------------

Power Consumption

Warm White	14 Watts
Cool White	15 Watts

Efficacy

Warm White	46 (lm/w)
Cool White	55.3 (lm/w)

Color Temperature

Warm White	3000K
Cool White	4700K

Color Rendering Index (CRI)

Warm White	77
Cool White	75

Center Beam (candelas)

Warm White	1893
Cool White	2486

Rated Life	50,000 Hours 70% Lumen Maintenance
-------------------	---------------------------------------

Housing	Anodized
----------------	----------

Socket	E26 Edison Base
---------------	-----------------

Beam Spread

<i>Narrow Flood</i>	30°
---------------------	-----

Operating Temperature	-40°C to +45°C
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Voltage*	120 VAC @ 60 Hz
-----------------	-----------------

Weight	1 lb, 9.8 oz
---------------	--------------

Warranty	5 Year Limited
-----------------	----------------

Standards	UL1993, E320663
------------------	-----------------

Certification



Environment



*Normal input operating range allowed is 90-130 VAC/DC @ 50/60 Hz. Indoor use only. Not for use in insulated ceiling applications. US Patent D570, 5055

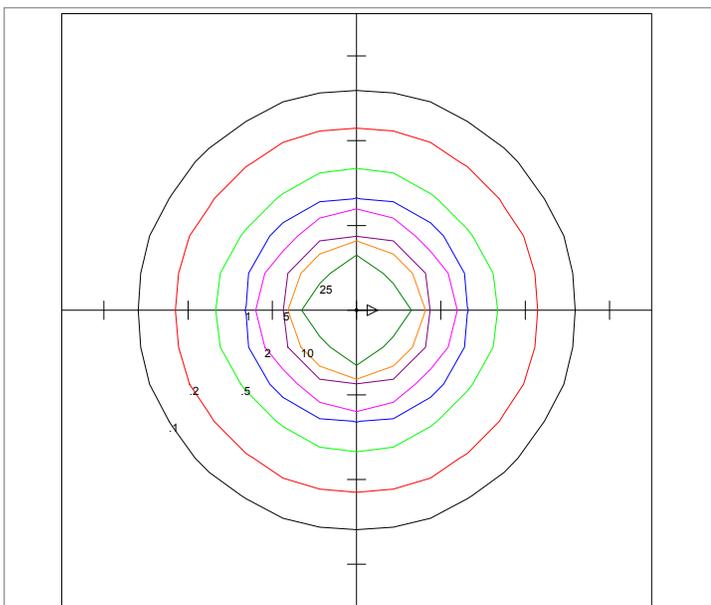


SōL™ R38 Lamp

Ordering Information

Example: SOL R38DM WW NFL

Family	Product	Color Temperature	Beam Spread
SOL	R38 R38 R38DM Dimmable	CW Cool White WW Warm White	NFL Narrow Flood



Warm White Illustrated

Horizontal Footcandles
 Scale: 1 Inch = 8 Ft.
 Light Loss Factor = 10.00
 Lumens Per Lamp = N.A. (absolute photometry)
 Luminaire Lumens = 643
 Mounting Height = 10.00 Ft
 Maximum Calculated Value = 189.31 Fc
 Arrangement: Single

Luminance Data (cd/sq.m)

Angle In Degrees	Mean
45°	8,330
55°	5,812
65°	4,650
75°	3,287
85°	1,771

Zonal Lumen Summary

Zone	Lumens	% Luminaire
0-30	521.8	81.5
0-40	578.5	90.3
0-60	623.1	97.3
60-90	17.5	2.7
0-90	640.6	100
90-180	0	0
0-180	640.6	100

Cautions

- Added weight may cause instability of free-standing portable lamps. Use only with portable lamps in which the distance from the bottom of the base to the top of the lamp holder does not exceed three (3) times the base width. Use only with portable lamps which are provided with lamp shades.
- This device is not intended for use with emergency exit fixtures or emergency exit lights.
- Not for use where exposed to the weather.
- **Risk of Electric Shock, Do Not Use Where Directly Exposed to Water** – Do not open – no user serviceable parts inside. Turn power off before inspection, installation, or removal.
- This device complies with Part 15 of the FCC rules. This product has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
- Use only on 120 Volt, 60 Hz circuits.



Lighting Science Group Corporation

1227 S. Patrick Drive BLDG 2A

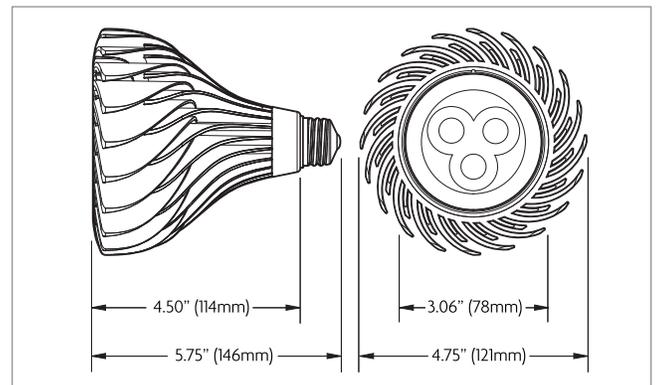
Satellite Beach, FL 32937

t: 877-999-5742

www.lsgc.com

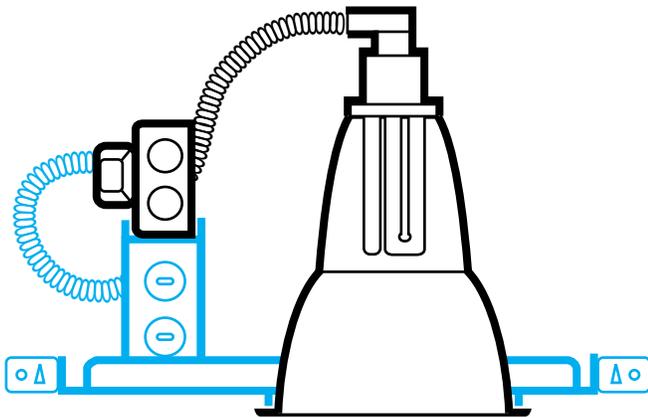
OCC Specifications subject to change

Lighting Fixture Upgrade Project



Dimensions shown in inches (mm)

4" VERTICAL RETRO SYSTEM SINGLE LAMP DOWNLIGHT



Clear Alzak®



Wheat Alzak®



Black Baffle

SPECIFICATION INFORMATION

RETRO SYSTEM

Installs into existing downlights mounting frame, J-box, and mounting hardware. Consists of precisely designed reflector; lampholder with socket, flex, cap and wire; and ballast attached to J-box. (Voltage options must be specified). Accessory mounting clips are not required for all installations, however when needed specify mounting clip **MC** from accessories column. (see Clip spec page for further information).

REFLECTOR

Reflector is available in thirty degree cutoff **.30** for general illumination. Finishes are Clear **A** or Wheat **G** Alzak for anodized, specular, durable and anti-iridescent reflectors.

BALLAST

Enclosed F-can, class B, HPF is securely fastened to 2" box, which mounts to existing fixtures frame. Supplied standard in 120V and 277V. Electronic ballasts use 4 pin lamps and provide rapid start, .98 power factor with THD<10%. Outboard mounting provides quiet cool operation. Dimming ballast **D3** controls lumen output down to $\pm 5\%$ and is available in 26, 32, 42 watts only; compatible with incandescent dimmers. Consult ballast spec page for further details.

ELECTRICAL

Allows 4-in / 4-out #12 AWG conductors rated at minimum 90° C. For use in damp locations. J-box and ballast are accessible through fixture. U.L. Classified for fluorescent retro-fits.

ACCESSORIES

A1 acrylic security lens
B black baffle
D3 dimming ballast for 26w, 32w
G gold Alzak reflector
JM / UM J-box mount (see options)
MC1 mounting clips for high hat style housings like H7, R10 and MX7.
MC2 mounting clips for die cast plaster frames.
MC4 bottom feed clips.
MC5 slide clips for flat plaster frames.
MC6 bottom feed clips for die cast aluminum mounting frames.
OT4 white oversize trim ring
P trim flange painted white
QC quick connect screw-in cap
RP remodel pan

ORDERING INFORMATION

LAMP

1-42 42W triple tube

120-277V

RV4142.A30.UE 42W triple

SUBMITTAL INFORMATION

TYPE: 4"

PROJECT:

NOTES:

DESCRIPTION:

RV4142.A30.D3.OT4-SPIV, 42W dimmable vertical mount downlight with twist lock socket.

DELRAY
LIGHTING
 INCORPORATED

RV4100

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CALIFORNIA,
91505
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COM
 May 10, 2010
 Page 9



Ceramic Metal Halide (CMH) ED17 Reflector

LAMP WATTAGE

(1) CDM50ED17(1) CDM70ED17 (1) CDM100ED17

DESCRIPTION

Ceramic Metal Halide (CMH) ED17 Reflector. Fixture converts general light from an ED17, and forces the distribution into a 14° narrow flood angle similar to that of a PAR lamp source. Utilizes electronic metal halide ballast designed for use with higher CRI Index ED-17 ceramic metal halide light sources.

FEATURES

- Electronic ballast
- Multi-Faceted reflector
- Deep drawn one-piece steel socket cup & reflector shroud
- Tempered safety shield
- Heat resistant Teflon coated wire lead
- High-strength stainless steel electrical contacts
- One or two circuit track capable

HOUSING, SOCKET & REFLECTOR SHROUD

.060 Deep drawn steel construction with softened edges. Conical face completely houses faceted reflector and lamp. L-Bracket provides firm friction hold for accurate aiming.

REFLECTOR

.050 Multifaceted aluminum reflector. Provides a 14° narrow flood distribution common to PAR light sources to an ED-17 light source. Finish is clear specular with reduced iridescence.

SHIELD

.11 Tempered glass shield reduces UV radiation and provides protection in case of ED-17 light source failure or shattering.

BALLAST HOUSING

.06 Baked enamel finished solid steel construction. Access cover secured with four screws. Top surface contains 3-contact track adapter and additional locking tab opposite contact head. Housing is positioned vertically, perpendicular to ceiling/floor.

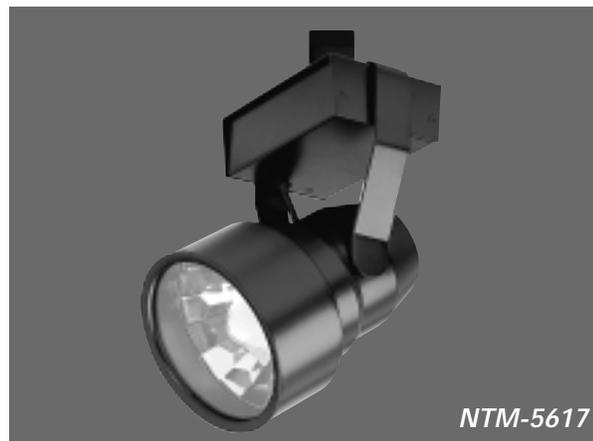
BALLAST

Integral .90 high power factor electronic solid state Type-1 ballast housed in .060 finished steel enclosure. Ballast provides automatic termination upon end of lamp life. i.e. "End of Life" as well as thermal shutdown protection.

Input Voltage:	120V, 50/60Hz
Power Factor:	>99%
Sound Rating:	A
Frequency:	<200 Hz
Min. Starting Temp.:	-4°F (-20°C)
Total Harmonic Distortion:	<5%
Ballast Life Expectancy:	64,000 hours (at 75°C)
Input Power:	50W 70W 100W
Input Watts:	55 77 110
Operating Amps:	.46 .63 .94

SOCKET

4KV 660VA/600V Porcelain jacketed aluminum screw thread medium-base socket.



NTM-5617

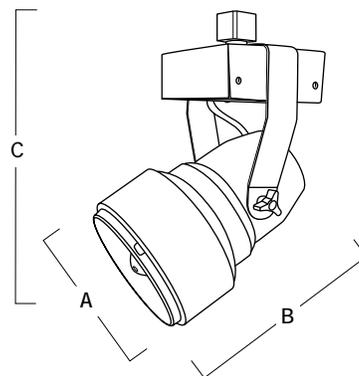
PRODUCT MATRIX

Catalog	Finish	Lamp	Input Wattage	Amperage
NTM-5617/50	B,W	CDM50ED17	55	.46
NTM-5617/70	B,W	CDM70ED17	77	.63
NTM-5617/100	B,W	CDM100ED17	110	.94

DIMENSIONS

NTM - 5 6 1 7

A: Diameter	6"	(152 mm)
B: Length	10"	(25 cm)
C: Max Extension	11-1/2"	(29 cm)



WIRING

Teflon coated wire lead connects socket and housing to electrical contact head. Teflon coating is durable and resists heat degradation from lamp and housing radiation.

CONTACT HEAD ASSEMBLY

Three .030 stainless steel contacts mounted in high heat rated plastic housing.

ONE/TWO CIRCUIT CONVERSION

Positive contact (opposite neutral and ground contacts) is preset to "down" position at factory, but may be raised to the higher position to install onto the second circuit of Nora Lighting NT-2300 series two-circuit track.

FINISHES

White or Black heat rated baked enamel paint. Custom painting or anodizing for special applications is also available. Custom finishes will require lead times that

vary depending on vendor schedules. Please consult factory for quotation, and provide either a Dunn Edwards number or color chip for exact matching.

COMPATIBILITY

Nora track fixtures are interchangeable with Halo, Catalina, Hampton Bay, Halo-Edison, or any other brands configured to Halo track system design. Note: fixtures may not be compatible with non-Nora transformers or monopoint adapters.

UL LISTED

UL Listed as track lighting fitting

ACCESSORIES

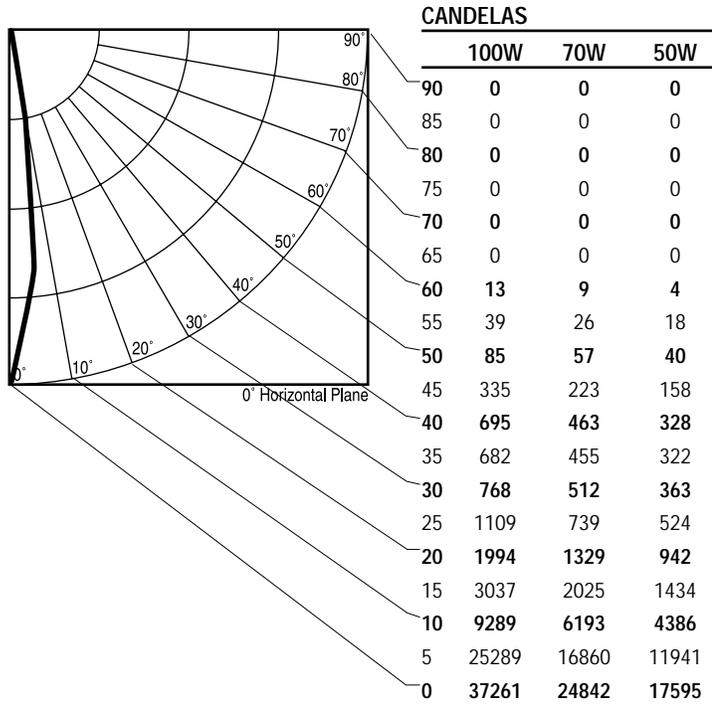
Custom Finishes	Consult Factory
Accessory Holder	NT-346
Louver	NT-343
Barn Doors	NT-340

NTM-5617 ED17 Clear Specular Faceted Reflector

Lab: LM-63-1995 Test No. LRL 901-213 (.6667 Multiplier for 70W; .4722 for 50W results) Spacing Criteria: .3 Efficiency: 49.5%

Beam Angle: 14 Field Angle: 28

LAMPS	100W	70W	50W
Lamp:	MCP100/U/MED/830	MCP70/U/MED/830	MHC50/U/M/3K
Total Watts:	110	77	55
Lumens:	9000	6000	4250



Angle in Degrees	100W		70W		50W	
	Average 0-Deg	Average 90-Deg	Average 0-Deg	Average 90-Deg	Average 0-Deg	Average 90-Deg
45	30656	30656	20407	20407	14475	14475
55	4400	4400	2933	2933	2077	2077
65	0	0	0	0	0	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0

COEFFICIENTS OF UTILIZATION*

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	59	59	59	59	58	58	58	58	55	55	55	53	53	53	51	51	51	49
1	57	56	55	54	56	55	54	53	53	52	51	51	50	50	49	49	48	48
2	55	53	51	50	54	52	51	50	51	49	48	49	48	47	48	47	46	46
3	53	50	49	47	52	50	48	47	49	47	46	47	46	45	46	45	45	44
4	51	48	46	45	50	48	46	44	47	45	44	46	45	43	45	44	43	42
5	49	46	44	43	49	46	44	42	45	43	42	44	43	42	44	42	41	41
6	48	45	43	41	47	44	42	41	44	42	41	43	41	40	42	41	40	39
7	47	43	41	39	46	43	41	39	42	41	39	42	40	39	41	40	39	38
8	45	42	40	38	45	42	40	38	41	39	38	41	39	38	40	39	38	37
9	44	41	38	37	44	40	38	37	40	38	37	40	38	37	39	38	37	36
10	43	39	37	36	42	39	37	36	39	37	36	38	37	36	38	37	36	35

* Effective Floor Cavity Reflectance = 20%

BEAM & CONE DATA

Beam Angle: 14°

Mounting Height	Maximum Spacing	Circle Diameter	100W		70W		50W	
			F.C. at Center	F.C. at Edge	F.C. at Center	F.C. at Edge	F.C. at Center	F.C. at Edge
4	1.0	2.0	2357.1	33.7	1571.5	22.5	1113.0	15.9
6	1.6	3.2	1000.1	12.6	666.8	8.4	472.2	5.9
8	2.1	4.2	524.6	7.1	349.8	4.7	247.7	3.4
10	2.8	5.6	322.3	4.3	214.9	2.9	152.2	2.0
12	3.4	6.8	218.1	2.8	145.4	1.9	103.0	1.3

200W - 300W - 400W INDUCTION HI-BAY Light Fixtures

100,000 Hrs Life

The Next Generation of Lighting



Circular Induction Lamp
Inside

Specification:

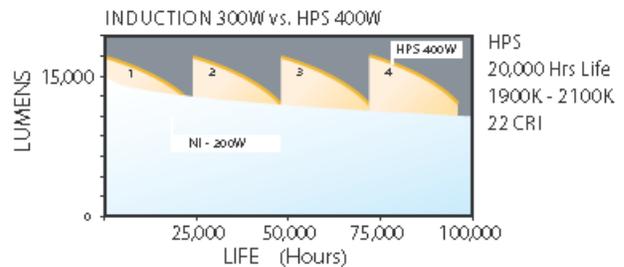
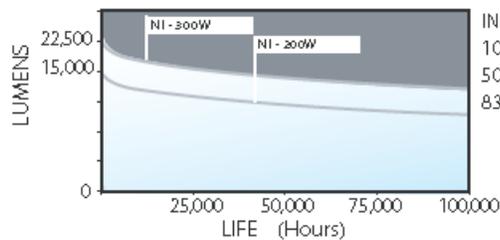
- Ballast Type	Electronic
- Start Method	InstantON
- Hot Re-start	InstantON
- Universal Input Line Voltage	120-277 VAC
- Input Line Frequency	50/60 Hz
- Lamp Life	100,000 Hrs.
- Lumen Maintenance @70,000Hrs	>70%
- Color Temperature	5000°K
- Color Rendering Index (CRI)	83
- Minimum Starting Temperature	-20°F
- Maximum Operating Temperature	160°F
- Lamp Operating Frequency	250 kHz
- Power Factor	>0.98
- Total Harmonic Distortion	< 10%
- Inrush Current Peak	<10 Amp
- UL/CUL Listed	Yes
- FCC Compliance	Part 18, Subp. C

Applications, Features, and Benefits

- Heat and impact resistant tempered glass lens
- Aluminum housing with electrocoat gray paint - black or beige options
- Ballast made with long life components
- InstantON(TM) flicker-free Cold Start and Hot Re-Start
- Correlated Color Temperature of 5000°K for greater visibility
- High Power Factor, Low THD Replaceable Ballast
- Concealed continuous gasket seals against harmful dust, dirt, moisture and insects
- UL Listed
- Advanced phosphors for high Lumen Maintenance and high lumen output
- Aluminum anodized reflector for superior long term performance
- Up to 15 years Maintenance free operation

Product Information

Item No.	Description	Watts	Initial Lumens	Line Voltage Supply	Line Current	Total Harmonic Distortion (THD)	Power Factor	Packaging Dimensions		
								Width	Length	Height
IX-18200-M5UNV	22" NI-200W HI BAY	200	15,000	120-277 VAC	1.80-0.75 AMP	<10%	0.98	24 IN 610 MM	24 IN 610 MM	



OCC Induction Lighting Fixture Specification

Fixture# 8 Neptun Light #IX-18200-M5UNV

With 6' 3-wire cord set and 15 amp, 277 volt twist lock plug (NEMA L7-15P), Aluminum Reflector, Black Powder Coated Housing, to directly replace existing Holographane Prismatic Reflector.

Specification of 200Watt Induction Lighting System Kits:

Heat and impact resistant tempered clear glass lens, concealed continuous gasket seals against harmful dust, dirt, moisture and insects, Aluminum housing coated outside with electro coat black paint, Aluminum reflector polished and anodized inside, Vented Reflector Cavity, Cast Aluminum Ballast box equipped with two directional leveling hanging system.

Ballast shall be: Type 1 Outdoor fully encapsulated in non-corrosive enclosure in flexible heat conducting compound, provided with integral Surge Suppression Protection, Universal Input Voltage 100-300VAC, 50/60Hz, shall operate with Input Voltage variation of +/- 20% System shall have safety feature built-in to ballasts box and hanging system ballast replacement.. Instant ON flicker-free Cold Start and Hot Re-Start (Qualified Laboratory Tests Results shall be provided) Operating Range of + 85C to - 40C NEMA wattage label complies with ANSI: C136.2, C136.10, C136.14, C136.15, and C136.3.

10 year limited system warranty on the fixture, lamp and Ballast. Manufacturer shall provide a warranty agreement directly with the Oregon Convention Center to be signed and dated upon product shipment.

Induction High Bay fixture shall be Neptun Light #IX-18200-M5UNV, or prior approved equal. Manufacturer wanting to bid must submit for prior approval, 10 days prior to bid due date, certifying that they meet or exceed the specification minimums as stated herein.

Manufacturer wanting to bid also shall submit for prior approval, ten days prior to the bid due date, a complete working sample of the **"200Watt Induction Lighting System Kits"** that they are proposing. Samples must be 120Volt with a six foot cord and plug.

Performance of 200Watt Induction System Kits:

Light Correlated Color Temperature shall be 4600K to 5000K and CRI above 82

(Qualified Laboratory Tests Results shall be provided)

Input Power Quality shall have High Power Factor (.98 Min) and Low THD (10% max)

Total Power Input shall be 205 Watts Maximum.

Ballast Internal power loss shall be below 9 Watts.

Absolute Lumen Output of the system kit shall be not less than 15600.

Minimum Photopic Lumen Output of the Light Source shall be not less than 17425.

Minimum Scotopic Lumen Output of the Light Source shall be not less than 30750.

Photometric System Efficacy shall be not lower than 0.9.

Lumen Maintenance shall be 90% after 50,000 hours.

Light Source Rated life shall be at least 100,000 hours.

Light Source Current Crest Factor (CCF) shall be less than 1.4

Operation frequency of the system shall be 233-250 kHz.

Country of Manufacture:

System components shall be substantially manufactured (> 50%)

within the United States including but not limited to the Lamp, ballast, housing components and frame, optical covers / lens, packaging and all printed material. Product components shall be assembled together to a finished product within the U.S.A and products shall have label "Assembled in U.S.A."

Labels / Certification:

Each product must be U.L.