

# CC11T4

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### Luminaire

Cylindrical shape Heavy spun aluminum hood with shade and guard.

Paddock Mall, Florida

10"(25cm) seamless acrylic cylinder, UV resistant

GCAAC: Clear acrylic

GCAO: Opaline acrylic

GCAP: POND acrylic 75% diffusing

Tool-free "Twist-lock" quarter-turn opening system.

"V" groove seamless silicone gasket.

IP66 weatherproof protection.

Stainless steel hardware.

Slip fits on a 4" (10cm)Ø x 3" (7cm) long ferron.

RoHS Compliant

### Optic / Electric

Pre-anodized aluminum reflector with a 95% minimum reflection level.

LED  
2L-3L-5L  
IES type II, III or V  
Segmented  
reflector



HID-PLT  
GR3-GR5  
IES type III or V  
Glass  
refractor



HID-PLT  
PL3-PL5  
IES type III or V  
Segmented  
louvers



HID-QL-PLT  
RAS-RAS  
IES type III or V  
Prismatic  
refractor



HID-QL-PLT  
RS3-RS5  
IES type III or V  
Segmented  
reflector



#### Lamp

4K = LED 4000K (neutral white)

MH = Metal halide

HPS = High pressure sodium

S17 = medium base

S23 = mogul base

QL = Induction

PLT = Compact fluorescent

#### Electric

High power factor of 90%. Tool-free removable tray with quick disconnect connectors.

120, 208, 240, 277 or 347 volts available

Consult factory for other source and ballast types

### Finish / Options

5 mils/127 microns polyester powder coating. Meet the ASTM G7, B117 and D1654.

A wide variety of RAL colors is available.

#### Options

HS: House side shield for RS3 optic

PC: Button type photocell

TP: Tamperproof hardware

III 0.9

CC11T4-GCC02  
EPA: 1.57 ft³  
Weight: 27 lbs - 12kg

www.luminaire.com



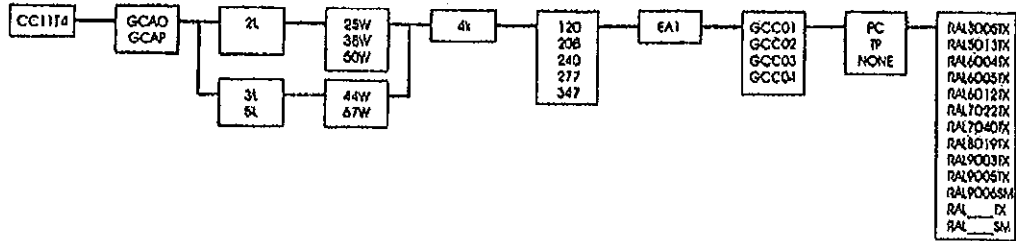
ELENCIA

# CC1114

Luminaire Globe Optic Watt Lamp Volt Filter Guard Options Color

Ordering example

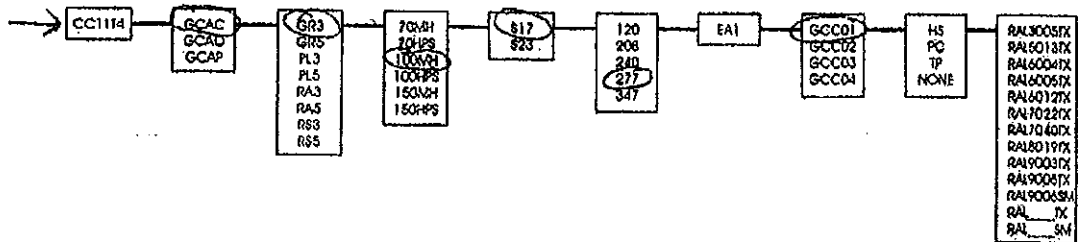
CC1114 GCAP 3L 44W 4K 120 EA1 GCC01 NONE RAL9005TX



LED

Ordering example

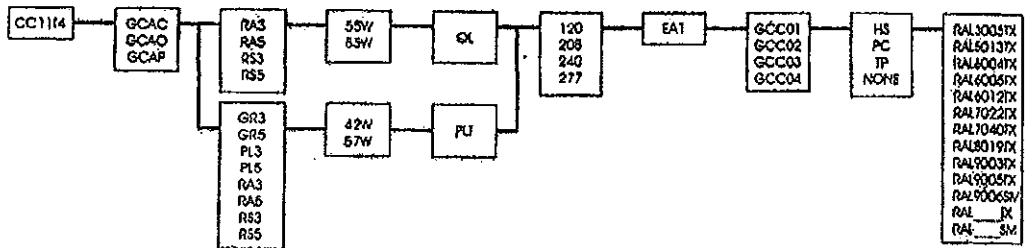
CC1114 GCAC RS3 100W 517 120 EA1 GCC01 NONE RAL9005TX



HID

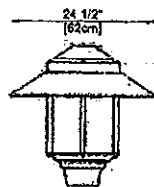
Ordering example

CC1114 GCAC RS3 85W 5L 120 EA1 GCC01 NONE RAL9005TX

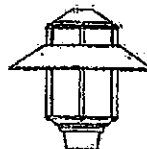


INDUCTION - FLUORESCENT

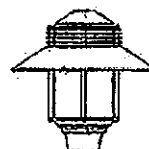
## Luminaires



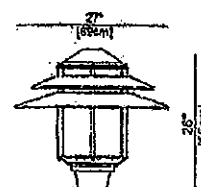
CC1114  
GCC01



CC1114  
GCC02



CC1114  
GCC03



CC1114  
GCC04

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WIPAC

III D-16

# BOLLARD

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12

## Luminaire

Round shape Heavy cast aluminum hood with shade and guard.

6" (25cm) seamless acrylic cylinder, UV resistant.  
LAC: Prismatic acrylic  
LAP: Pond acrylic 75% diffusing  
LAO: Opaline acrylic

Tool-free "Twist-lock" quarter-turn opening system.

"V" groove seamless silicone gasket.

IP66 weatherproof protection.

Stainless steel hardware.

Bolt circle (BB1): 5" (13cm) Ø.

Anchor bolts: 3/8" Ø x 12" long

## Optic / Electric

Pre-anodized aluminum reflector with a 95% minimum reflection level.

LED  
3L3-5SL4  
IES type III or V  
Segmented reflector



HID-PLT  
RS3-RS5  
IES type III or V  
Segmented reflector



HID-PLT  
NS6  
IES type v  
Bore lamp



Lamp  
4K = LED 4000K (neutral white)

MH = Metal halide  
HPS = High pressure sodium  
S17 = medium base

PLT = Compact Fluorescent

Electric  
High power factor of 90%. Tool-free removable ballast or driver tray with quick-disconnect connectors. 120, 208, 240, 277 or 347 volts.

Consult factory for other source and ballast types.

## Finish / Options

5 mils / 127 microns polyester powder coating.  
Meet the ASTM G7, B117 and D1654.  
A wide variety of RAL colors is available.

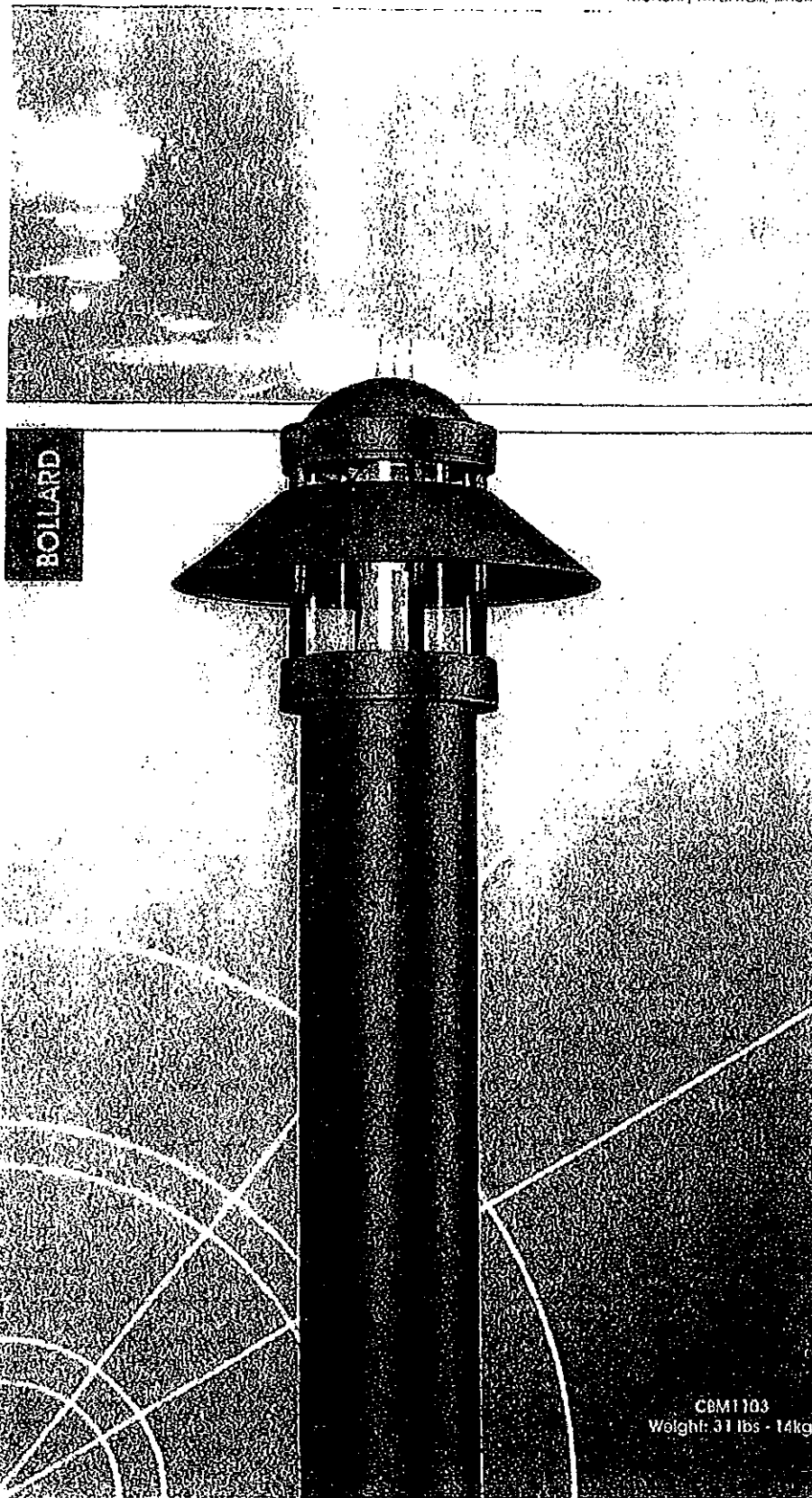
### Option

PC: Built-in type photoelectric cell  
TP: Tamperproof hardware

III 0.11

CBM1103  
Weight: 31 lbs - 14kg

www.cycloneighting.com

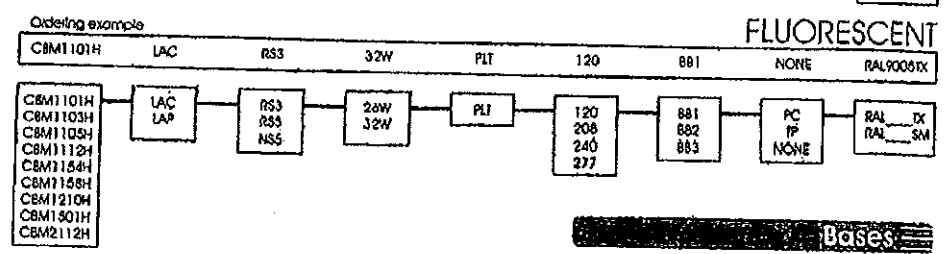
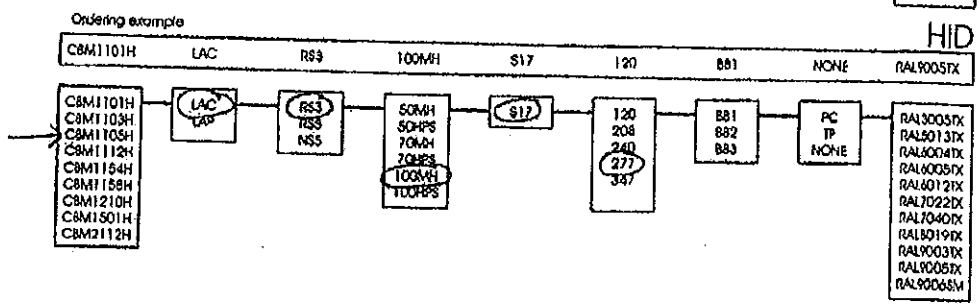
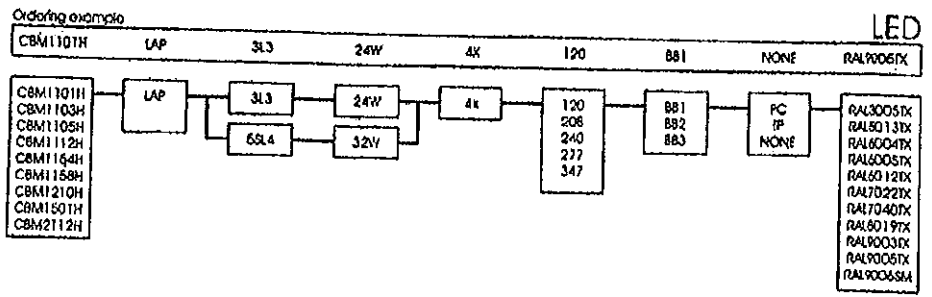


BOLLARD

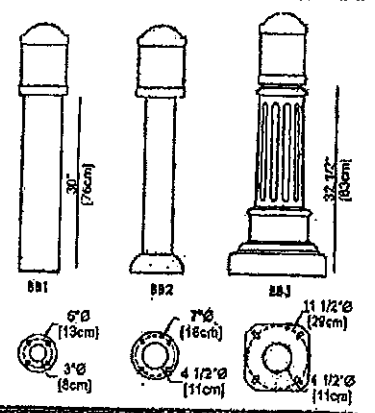
McHenry Riverwalk, Illinois

# BOLLARD

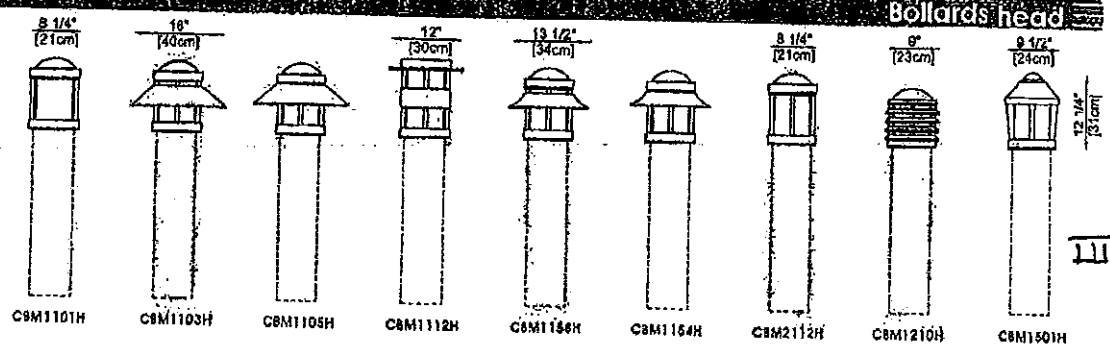
Bollard Globe Optic Watt Lamp Volt Base Options Color



## Bases



## Bollards head



III D.12

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# AccuLite

Project: Harbor Cove Marina

Fixture Type: 'C'

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

## Description

**Beauty & Style** The ultimate in stylish lighting design, the Alari™ luminaire provides a graceful transition from ground to sky. The sweeping curves and elegant lines create a daytime appeal not normally found in a luminaire of this type

**Performance** Highly engineered optics ensure industry leading light levels with superior uniformity. The full compliment of beam spreads make the Alari™ luminaire the ideal choice for elegant high performance lighting

## Features

**Optics** Precision engineered multi-faceted reflectors ensures precise light control and superior uniformity • Heat resistant tempered glass lens

**Low EPA** Sleek, low-resistance profile

→ **"Dark Sky" Friendly** Full cut-off • International Dark Sky Association Seal of Approval for dark sky friendly, full cut-off luminaires

**Tool-Less Relamping** Snap action door latch

**Construction** Die cast aluminum • Stainless steel external hardware • Removable hinged door • Ballast mounted directly to housing

**Mounting** Two bolt keyhole mounting

**Finish** Baked polyester powder coat

**EISA AccuLite 175W - 400W Pulse Start MH luminaires** are designed and built to Energy Independence & Security Act standards

**EISA AccuLite 175W - 400W Pulse Start MH luminaires** are designed and built to Energy Independence & Security Act standards

**Lampholder** HID - specification grade mogul base porcelain • Compact Fluorescent: 4-pin electronic

**Ballast** Electronic - 250W, 320W, 350W and 400W • Improved lamp lumen depreciation • Extended lamp life • Improved ballast efficiency • Suitable for low temperature starting • Pulse Start MH -30°C • Compact Fluorescent -18°C

**Certification** Certified to UL1598/CSA C22.2 250 • IP65 • IDA Full Cut-Off • Suitable for wet locations

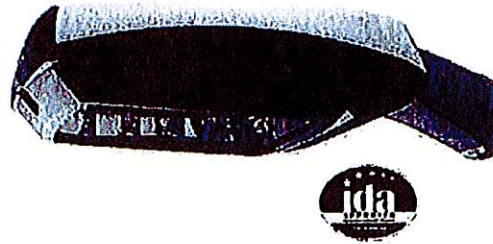
# ALARI™

## PARKING, ROADWAY & AREA LIGHTING

ELECTRONIC BALLAST, HORIZONTAL LAMP

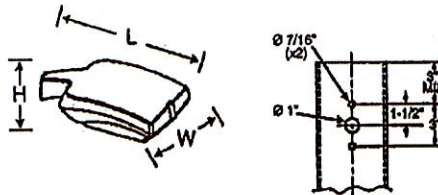
Cat. No.: AP2 250PS 3H L-5H

Accessories: \_\_\_\_\_



## DIMENSIONS

	EPA	L	W	H	Weight
A1 Series	0.8 ft'	23"	14"	5 7/8"	28 lb
A2 Series	1.2 ft'	32"	18 5/8"	7 9/16"	49 lb



## Electronic vs Magnetic Ballast

	Electronic Ballast	Conventional Magnetic Ballast
Lamp Lumen Depreciation	10% loss @ 24,000 hr	50% loss @ 10,000 hr
Comparable Mean Lumens	320W Pulse Start	400W Pulse Start
Effective Lamp Life	38,000 hours	18,000 hours
Ballast Efficiency	94%	85%

III D. 13





# AccuLite™

# ALARI™

Cat. No.:

## ORDERING INFORMATION

Series Lamp Volts Beam Options  
Accessories.:

ELECTRONIC BALLAST, HORIZONTAL LAMP



### PRODUCT CODES

Series	Lamp Wattage/Type	Ballast	Distribution	Options
Horizontal Lamp A1- CFL - One Lamp 26W - 70W A1- CFL - Two Lamps 26W - 42W A2- HID - One Lamp 250W - 400W	→ Pulse Start Metal Halide A2 - MOGUL BASE 250PS, 320PS ED28 Compact Fluorescent A1- GX24Q BASE One lamp 126CF GX24Q 132CF, 142CF GX24Q 157CF, 170CF GX24Q Two lamps 224CF GX24Q 232CF, 242CF GX24Q	→ Electronic HID - U27† - 200V thru 277V CFL - E12 120V - E27 277V - E34 347V	Horizontal Lamp A1 SERIES One or two lamps - 2H IES Type II - 3H IES Type III - 5H IES Type V One lamp • FT Forward Throw A2 SERIES One lamp - 2H IES Type II → - 3H IES Type III - 4H IES Type IV - 5H IES Type V • FT Forward Throw	Lamp • CL Coated HID lamp • Clear HID lamp • By others Compact fluorescent Photocontrol - PC Replace suffix "-U27" with line voltage suffix Quartz Auxiliary • Q Double contact bayonet base Quartz lamp not included Emergency Ballast • Dual Function Lamp For use with one or two CF lamps. Replace voltage suffix "UN" with line voltage suffix, 120V or 277V only The CF lamp(s) operate off the CF ballast, the lamp selected for dual function also operates off the emergency ballast. - EMB Min. 0°C (32°F) - EMX Min. -18°C (0°F) Internal House Side Shield → SH For back light cut-off of forward throw (suffix "-FT") optics only. For other distributions use the external shield Terminal Block & Ground Lug - TB 14 AWG to 6 AWG Fuse Holder Supplied with fuse Replace voltage suffix "-U27" with line voltage suffix • F1 Single pole - Line to neutral • F2 Two pole - Line to line Color No Suffix Bronze, standard - BL Black - SL Silver - WH White Designer Colors Consult Factory Additional Options Available Consult Factory

### ACCESSORIES

(Order separately)

Description	Catalog #
Wall Mount Bracket	A-WMB-color
Round Pole Adapter	A-RPA34-color
Fits 3" to 4" pole	A-RPA56-color
Fits 5" to 6" pole	
Post Top Adapter	A-PTF-color
Fits 2" IPS (2-3/8" o.d.) and 2-1/2" IPS (2-7/8" o.d.) tenons.	
External House Side Shield	
Distribution suffix FT (Forward Throw)	
Use internal shield	See Options
Distribution suffixes 2H, 3H, 4H & 5H	
Fits A1 & AP1 Series	A1-HSS
Fits A2 & AP2 Series	A2-HS
Polycarbonate Guard	
Fits A1 & AP1 Series	A1-LS
Fits A2 & AP2 Series	A2-LS

Patented

† Metal Halide

Ⓢ EISA: 250W - 400W Pulse Start MH meets Energy Independence Security Act (EISA) requirements.

‡ Lamp Socket Protector:

Required in Canada when using 208V, 240V & 480V - add suffix "-LSP"



1300 S. Wolf Road • Des Plaines, IL 60018 • Phone (847) 827-9880 • Fax (847) 827-2925

220 Chrysler Drive • Brampton, Ontario • Canada L6S 6B6 • Phone (905) 792-7335 • Fax (905) 792-0064

Visit us at [www.junolightinggroup.com](http://www.junolightinggroup.com) Specifications are subject to change with out notice ©2011 Juno Lighting, LLC

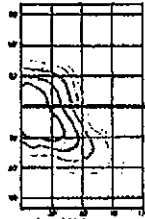
III D.14



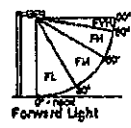
**HORIZONTAL LAMP**



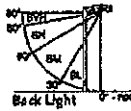
A2-400M4025-01  
Horizontal Lamp,  
30" Mounting Height



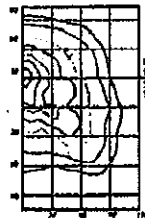
A2-400M4025-01  
Horizontal Lamp,  
30" Mounting Height



Forward Light



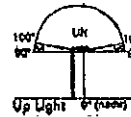
Back Light



A3-400M4025-01  
Horizontal Lamp,  
30" Mounting Height



A3-400M4025-01  
Horizontal Lamp,  
Home Side Facing 180° beam,  
30" Mounting Height



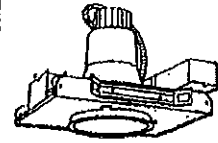
Up Light

Optical Assembly Lamp Lumens	2H 400PS 40,000	3H 400PS 40,000	4H 400PS 40,000	5H 400PS 40,000	FT* 400PS 40,000
<b>Forward Light</b>					
Luminaire Lumens	17,789	18,291	18,780	13,697	16,291
% Lamp Lumens	44.5%	45.7%	47.0%	34.2%	41.0%
Low FL (0° - 30°)	5.8%	5.7%	5.4%	4.4%	5.9%
Mid FM (30° - 60°)	23.6%	23.5%	21.2%	18.2%	20.0%
High FH (60° - 80°)	14.7%	16.3%	17.2%	11.4%	13.0%
Very High FVH (80° - 90°)	0.4%	0.2%	0.1%	0.3%	0.1%
<b>Back Light</b>					
Luminaire Lumens	9,790	8,694	9,842	13,134	2,311
% Lamp Lumens	24.5%	21.7%	24.6%	32.8%	5.8%
Low BL (0° - 30°)	5.6%	5.3%	5.4%	4.4%	3.1%
Mid BM (30° - 60°)	14.4%	13.0%	14.3%	17.3%	2.4%
High BH (60° - 80°)	4.4%	3.2%	4.8%	10.8%	0.7%
Very High BVH (80° - 90°)	0.1%	0.1%	0.1%	0.3%	0.0%
<b>Up Light</b>					
Luminaire Lumens	0	0	0	0	0
% Lamp Lumens	0.0%	0.0%	0.0%	0.0%	0.0%
Low UL (90° - 100°)	0.0%	0.0%	0.0%	0.0%	0.0%
High UH (100° - 180°)	0.0%	0.0%	0.0%	0.0%	0.0%
<b>Trapped Light</b>					
Luminaire Lumens	12,421	13,013	11,378	13,140	21,299
% Lamp Lumens	31.1%	32.3%	28.4%	32.8%	52.2%



III D.15

<b>7.5" RECESSED PAR LAMP</b>		<b>MHR75</b>
<b>SUBMITTAL</b>		
<b>JOB</b>	Harbor Cove Marina Hotel	
<b>TYPE</b>	'D'	<b>VOLTAGE</b>



**MHR75 - 100PS - PAR38/MED - CS - OPTIONS - EB1 - 120**

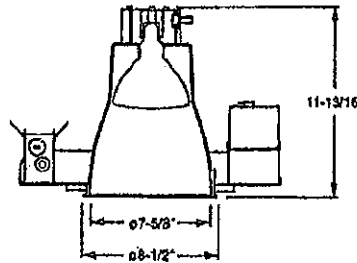
SERIES      WATTAGE      LAMP BASE      REFLECTOR FINISH      OPTIONS      BALLAST      VOLTAGE

**SERIES**

**FEATURES**

- ▶ Finned, extruded aluminum heat sink socket housing dissipates heat for cooler operation.
- ▶ Adjustable hanger brackets with bar hangers standard.
- ▶ Easy-access, 14-gauge galvanized steel junction box with two snap-on covers.
- ▶ 20-gauge, die-formed, galvanized steel pan/plaster frame.
- ▶ Self-flanged, low-iridescent aluminum reflector available in assorted colors.

This fixture is proudly made in the USA.



PAN SIZE: 12" x 16-1/4"      PAN SIZE w/SCA: 17" x 23"  
 CEILING CUT OUT: 8-1/8" dia.      CUT OUT w/SCA: 10-5/8" dia.

**MHR75 SERIES HOUSING** — 20-gauge, die-formed, galvanized steel pan/plaster frame.

**ELECTRICAL**

Porcelain socket. Prewired at factory for easy field installation.  
**ELECTRONIC BALLAST** — Rated 0°F minimum starting temperature.  
**MAGNETIC BALLAST** — Rated -20°F minimum starting temperature.

**LAMP OPTIONS (Must specify)**

ELECTRONIC BALLAST			MAGNETIC BALLAST		
WATTAGE	LAMP BASE	BALLAST	WATTAGE	LAMP BASE	BALLAST
70PS	PAR38/MED	EB1	70PS	PAR38/MED	MB1
100PS	PAR38/MED	EB1	100PS	PAR38/MED	MB1
150PS	PAR38/MED	EB1			

**REFLECTOR FINISH (Must specify)**

CS	Clear semi-specular (Standard)	SQ	Satin-glow
CG	Champagne gold	SPC	Clear specular
GD	Gold	STR	Straw
PW	Pewter	WT	Wheat

**REFLECTOR**

Low-iridescent aluminum, Clear semi-specular (CS) finish standard.

**OPTIONS**

AC/C73	Accent cone with clear prismatic tempered glass lens	F	Fuse (120V and 277V only)
AC/CGS	Accent cone with clear glass lens	MB	Micro-baffle
AC/FF	Accent cone with fresnel glass lens	MWT	Matte white trim
MB/C73	Micro-baffle with clear prismatic tempered glass lens	RETRO	Retrofit Mounting Pan Assembly (Magnetic ballast must be remote.) See Williams Downlighting Information for RETRO specifications.
MB/CGS	Micro-baffle with clear glass lens	SCA_°	Sloped Ceiling Adapter (Specify degree in 5° increments, 10°-30°. SCA increases fixture height. Consult factory for details.)
MB/FF	Micro-baffle with fresnel glass lens	YOKE	Yoke mount reflector

**VOLTAGE (Must specify)**

120	120V	208	208V (MB1 only)
240	240V (MB1 only)	277	277V



**MHR75**

**7.5" RECESSED PAR LAMP**

**PHOTOMETRY DESCRIPTION**

- 100W Metal Halide Par 38 Lamp
- 7.375" dia. Recessed Luminaire
- Low-Iridescence Specular Reflector with Open Bottom

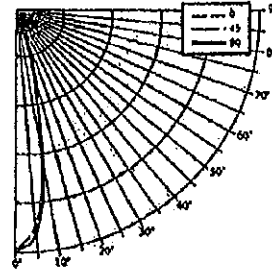
**PHOTOMETRY INFORMATION**

Williams Downlighting Catalog # MHR75-100PS-PAR38  
 Date 03/12/98  
 Lamp Quantity: 1

Test Report # 8727.0  
 Lamp Type: M90 (MP100PAR38/U/SP20)  
 Rated Lumens: 5200

**CANDLEPOWER DISTRIBUTION**

VERTICAL ANGLE	HORIZONTAL ANGLE		ZONAL LUMENS
	0	45	90
0	22827.	22827	22827.
5	21818.	21188.	21846.
15	7739.	7485.	7086.
25	1781.	1828.	1652.
35	309.	299.	264.
45	65.	60.	55.
55	0.	0.	0.
65	0.	0.	0.
75	0.	0.	0.
85	0.	0.	0.
90	0.	0.	0.



**LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% FIXTURE
0 - 30	4960.	95.4	95.6
0 - 40	6146.	99.0	99.2
0 - 60	5189.	99.8	100.0
0 - 80	5189.	99.8	100.0
TOTAL LUMINAIRE:			
0 - 180	5189.	99.8	100.0

IES SPACING CRITERIA: END=A  
 DIAGONAL=A  
 CROSS=A

**ZONAL CAVITY COEFFICIENTS**

EFFECTIVE FLOOR CAVITY REFL. = .20

CEILING WALL RCR	.80			.70			.50		
	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11
1	1.15	1.13	1.12	1.13	1.11	1.10	1.07	1.06	1.05
2	1.11	1.08	1.05	1.09	1.06	1.04	1.03	1.01	.99
3	1.08	1.04	1.01	1.07	1.03	1.00	1.00	.98	.96
4	1.05	1.00	.96	1.04	.99	.95	.97	.94	.92
5	1.02	.96	.92	1.01	.96	.92	.94	.91	.88
6	1.00	.94	.90	.99	.93	.89	.92	.89	.86
7	.97	.91	.87	.96	.90	.87	.89	.86	.84
8	.94	.88	.84	.93	.88	.84	.87	.83	.81
9	.92	.86	.82	.91	.85	.81	.84	.81	.79
10	.89	.83	.79	.88	.82	.78	.81	.79	.76

**LIGHT CONE QUICK CALCULATOR TABLES**

Mounting Height (ft)	FC at edge of cone	FC at Nadir	Cone Dia. (Feet)		
			End	Across	Diagonal
8	178.3	356.7	3.2	3.2	3.2
10	114.1	228.3	4.0	4.0	4.0
12	78.3	156.5	4.8	4.8	4.8
14	58.2	116.5	5.6	5.6	5.6
16	44.8	89.2	6.4	6.4	6.4
18	35.2	70.5	7.2	7.2	7.2
20	28.5	57.1	8.0	8.0	8.0

**LUMINANCE DATA (cd/m<sup>2</sup>)**

VERTICAL ANGLE	0	45	90
45	972.	897.	822.
55	0.	0.	0.
65	0.	0.	0.
75	0.	0.	0.
85	0.	0.	0.

MAXIMUM BRIGHTNESS NOT MEASURED

**FIXTURE QUANTITY ESTIMATOR TABLE**

REFLECTANCE: Ceiling = 80% Walls = 50% Floor = 20%  
 LIGHT LOSS FACTOR: 1.0

Room Size - 10' Ceiling	±50 fc	±75 fc	±100 fc
Small - 400 Sq Ft	4	6	9
Medium - 800 Sq Ft	9	12	18
Large - 1600 Sq Ft	16	25	30

**COLOR CONVERSION FACTORS**

- Straw = x .97
- Champagne = x .96
- Micro-Baffle = x .60
- Gold = x .93
- Wheat = x .88
- Pewter = x .88

**LABELS**

UL/CUL listed for through-branch circuit wiring and dry or damp locations. UL/CUL listed for wet location under covered ceiling when specified with \_\_\_/C73, \_\_\_/CGS, or \_\_\_/FF option.

III 0.17



# **EBI** Drilling Inc.

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January 28, 2015

Steven Robertson  
Senior Planner  
City of Duluth  
411 W. 1<sup>st</sup> St. Rm. 208  
Duluth, MN 558802

RE: MU-W 200 feet rule

Dear Mr. Robertson,

Thanks for your views. I do agree with your view on when a new hotel project makes an application to construct. Globe Duluth submitted an application dated March 2, 2012 and on March 30, 2012 a site visit was held and blocked views, due to topography, shown in our and your maps where present at that time. (See exhibit A1 & A2)

Under your own understanding the portion of the blocked view that was present at the time permitting was requested excludes the portion of the building where the view is blocked. Thus part 50-15.6.E.2 only applies to the portion of the proposed building not blocked by topography when making application. Under 50-15.6.E.2 when permitting it clearly states that, "These requirements shall not apply to portions of buildings". Thus that portion of my hotel that was blocked by topography does not apply to this ordinance then nor now. To clarify the portion of the hotel building that lies under the whited out portion on your and my maps (See Exhibit B1 & B2) never applies to this portion of the UDC building code according to the language in 50-15.6.E.2 shall not apply to this section.

You also state that the hotel as planned and designed to accommodate 50-15.6.E.2., as if there were no views blocked by topography thus enforcing the 200-foot rule within the code. I strongly disagree if the planning commission used Rule 50-15.6.E.2, the hotel would have needed a variance under this rule to be located where it is. To date no variance was ordered, requested or issued.

The above statement is based on the following explanation. Without a variance, in order to comply with Rule 50-15.6.E.2, the building would have needed to be constructed at a distance of 50 feet, running parallel to Minnesota Avenue, away from the large maintenance building located just behind (west of) the hotel. Therefor the referenced rule could not have been the factor for the placement of the hotel building but rather the opposite which made the portion of the hotel building currently being discussed exempt from the Rule.

Please see attached Exhibit C1 which shows where the Hotel would have been located if this rule

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