

# HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive

Robert K. Sutton Chairman

Date: August 31, 2022

# **MEMORANDUM**

TO: Mitra Pedoeem

Department of Permitting Services

FROM: Michael Kyne

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit #961430 REVISION: Hardscape, lighting, and signage

revisions

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached application for a Historic Area Work Permit (HAWP). This application was **Approved** by historic preservation staff.

The HPC staff has reviewed and stamped the attached construction drawings.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: Scotland African Methodist Episcopal Zion Church

Address: 10902 Seven Locks Road, Potomac

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete the applicant will contact Michael Kyne at 301.563.3403 or <a href="michael.kyne@montgomeryplanning.org">michael.kyne@montgomeryplanning.org</a> to schedule a follow-up site visit.





HAWP #:	at:	
submitted on:		
has been reviev	wed and d	etermined that the proposal fits into the following category/categories:

Repair or replacement of a masonry foundation with new masonry materials that closely match the original in appearance;

Installation of vents or venting pipes in locations not visible from the public right-of-way;

New gutters and downspouts;

Removal of vinyl, aluminum, asbestos, or other artificial siding when the original siding is to be repaired and/or replaced in kind;

Removal of accessory buildings that are not original to the site or non-historic construction;

Repair or replacement of missing or deteriorated architectural details such as trim or other millwork, stairs or stoops, porch decking or ceilings, columns, railings, balusters, brackets shutters, etc., with new materials that match the old in design, texture, visual characteristics, and, where possible materials, so long as the applicant is able to provide one extant example, photographic evidence, or physical evidence that serves as the basis for the work proposed;

Construction of wooden decks that are at the rear of a structure and are not visible from a public right-of-way;

Roof replacement with -compatible roofing materials, or with architectural shingles replacing 3-Tab asphalt shingles;

Installation of storm windows or doors that are compatible with the historic resource or district;

Repair, replacement or installation of foundation-level doors, windows, window wells, and areaways, or foundation vents, venting pipes, or exterior grills that do not alter the character-defining features and/or the historic character of the resource:

Construction of fences that are compatible with the historic site or district in material, height, location, and design; Fence is lower than 48" in front of rear wall plane;

Construction of walkways, parking pads, patios, driveways, or other paved areas that are not visible from a public right-of-way and measure no more than 150 square feet in size;

Replacement of existing walkways, parking pads, patios, driveways, or other paved areas with materials that are compatible with the visual character of the historic site and district and that are no greater than the dimensions of the existing hardscape;

Construction of small accessory buildings no larger than 250 square feet in size that are not visible from the public right-of-way;

Installations of skylights on the rear of a structure that will not be visible from the public right-of-way, and would not remove or alter character-defining roof materials;

Installation of solar panels and arrays in locations that are not readily visible from the public right-of-way or that are designed so as to have a minimal impact on the historic resource or the historic district (e.g., systems that are ground-mounted in areas other than the front or side yard of a corner lot, located on accessory or outbuildings, on non-historic additions, or on rear facing roof planes);

Installation of car charging stations in any location on a property or in the right-of-way;

Installation of satellite dishes;

Removal of trees greater than 6" in diameter (d.b.h.) that are dead, dying, or present an immediate hazard.

Removal of trees greater than 6" in diameter (d.b.h.) in the rear of the property that will not impact the overall tree canopy of the surrounding district or historic site;

Replacement tree required as a condition; and, Other minor alterations that may be required by the Department of Permitting Services post-Commission approval that would have no material effect on the historic character of the property.

Staff finds the proposal complies with Chapter 24A, the Secretary of the Interior's Standards for Rehabilitation, and any additional requisite guidance. Under the authority of COMCOR No. 24A.04.01, this HAWP is approved by \_\_\_\_\_\_\_ on \_\_\_\_\_\_. The approval memo and stamped drawings follow.





# **APPLICATION FOR** HISTORIC AREA WORK PERMIT HISTORIC PRESERVATION COMMISSION

301.563.3400

NA.	RYLAND	_				
APPLIC	ANT: Scotland African Metho	odist				
	Episcopal Zion Church		evali	na45@gmail	.com	
Name: <sub>-</sub>	Attn: Rev. Dr. Evalina I	Huggins, Pastor	E-mail: <u>peh</u> l	uggins@bem	oreamez.org	
Address	10902 Seven Locks Rd		City: <u>Potoma</u>	c, MD	Zip: 20854	
Daytime	e Phone: <u>301-980-8793</u>		Tax Account	No.: <u>0228542</u>	21	
AGENT,	CONTACT (if applicable):					
	Dewberry Engineers		aha	rnev@dewhe	rry com	
Name: <sub>-</sub>	Attn: Alan Barney		E-mail:	rney@dewbe	Try.com	
Address	2101 Gaither Rd, Suite 34	10	City: Rockvil	le, MD	Zip: 20850	
Daytime	e Phone: <u>301.948.8300</u>		Contractor R	egistration No	: N/A	
LOCATI	ON OF BUILDING/PREMISE	: MIHP # of Historic	Property_Re	source #29/0	)15	
ls the P	roperty Located within an His	toric District?Ye	s/Dist <del>rict No</del>	<u> </u>		-
	•		/Indiv	APPRO\	√ED	on Churc
ls there	an Historic Preservation/Lan	d Trust/Environmen	tal Ea	Montgomer	v County	ıde a
map of	REVIEWED	tation from the Ease	nent	_		
				oric Preservatio	on Commission	
Are oth	er By Michael Kyne at 9:06	pm, Aug 31, 2022	Revie		4	on?
(Conditi	on <del>ul Use, Variance, Record Pl</del> nental information. Yes: Zoning	at, etc.: ) if YES, incl g variance for rear setb	ade in ack & t	2012.		
supplen	nental information. (Case #A-6	(718)	19	Muth	MAMIA	
Building	§ Number: 10902	Street: Seven	Locks / 4			
						_
Town/C	ity: Potomac, MD	Nearest Cross	Street: Bells	Mill Rd		
Lot: N	/A Block: N/A	Subdivision: _\_	<mark>I/A Parce</mark>	I: <u>N829</u>		
TVPF ()	F WORK PROPOSED: See th	e checklist on Pa	do 4 to vorif	v that all em	nnarting itams	•
	posed work are submitted	· ·	-1	5		
_	epted for review. Check all t				e/Accessory St	ructure
	New Construction	Deck/Porch	H	Solar	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
_	Addition	Fence	H	Tree remova	al/planting	
	Demolition	Hardscape/Landsca	ape 🗍	Window/Do		
	Grading/Excavation	Roof		Other: Drive	way	
	by certify that I have the autho	rity to make the for	egoing applic	ation, that th	e application is	correct
	curate and that the construct					
	es and hereby acknowledge a		=		<del>-</del>	=
ALAN BAR	WIV			17/2022	-	

# HAWP APPLICATION: MAILING ADDRESSES FOR NOTIFING

[Owner, Owner's Agent, Adjacent and Confronting Property Owners]

Owner's mailing address

Scotland African Methodist Episcopal Zion Church

Attn: Rev. Dr. Evalina Huggins, Pastor 10902 Seven Locks Rd

Potomac, MD 20854

Owner's Agent's mailing address

Dewberry Engineers Attn: Alan Barney

2101 Gaither Rd, Suite 340

Rockville, MD 20850

Rami & Melanie Kandel

7907 Lakenheath Way,

Potomac, MD, 20854-2735

David C. & J. S. Nearpass

Rockville, MD 20854-2735

7900 Lakenheath Way

Rashid & Lisa Levieddin

Rockville, MD 20854-2735

7929 Lakenheath Way

Siqian He & Xin Wang

7904 Lakenheath Way

Rockville, MD 20854-2735

# Adjacent and confronting Property Owners mailing addresses

Maryland-National Capital Park &

Planning Commision

2425 Reedie Drive - 13th & 14th Floors

Wheaton, MD 20850

Rajeev K. Kaul & Gitika A. Kaul

7901 Lakenheath Way Rockville, MD 20854-2735

Willy W. & Janey K. NG 7931 Lakenheath Way

Rockville, MD 20854-2735

Yang K. & M. S. Kim

7908 Lakenheath Way

Rockville, MD 20854-2735

John Phillips Legrand, Jr. 10800 Seven Locks Rd

Rockville, MD 20854-2735

**APPROVED** 

**Montgomery County** 

Historic Preservation Commission

Rallathe Mall

# REVIEWED

By Michael Kyne at 9:06 pm, Aug 31, 2022

Description of Property: Please describe the building and surrounding environment. Include information on significant structures, landscape features, or other significant features of the property:

Single-story historic church building with basement roughly centered on the long narrow historic property. Original structure is limited to the wood-frame wood-clad portion on the back of the building with the original ornate hung windows and gable roof. A previous addition, built in the 1960's, is limited to the current front of the building. In contrast to the original structure, the previous addition is comprised of painted CMU, complementary gable roof, and less ornate hung windows. Also present on the previous addition is a small vestibule and modest metal-clad spire.

The property is surrounded on the west by heavily-wooded and heavily-sloped adjacent properties. Landscaping is limited to shrubbery around the building, grasses throughout, and an assortment of trees. Site paving is limited to walkway pavers and the driveway (previously the original seven locks road) running along the west of the building. The current seven locks road was relocated along the east of the building in the late-1950's/early 1960'.

Current seven locks road was built such that the elevation of the street was higher than the elevation of the church. As a result, the building sits within a valley between the street and adjacent hill, and has subsequently encountered foundation damage due to rain events

Description of Work Proposed: Please give an overview of the work to be undertaken:

THE ENCLOSED OUTLINES A PROPOSED LIMITED REVISION TO THE PREVIOUSLY APPROVED HAWP #961430. SCOPE MODIFICATION IS LIMITED TO THE FOLLOWING:

- 1. PROVIDED A WIDENED DRIVEWAY APRON AND PAVEMENT SURFACE WHERE PREVIOUSLY GRASSED TO PROVIDE A FULL 20-ft WIDE FIRE VEHICLE ACCESS PATH FROM SEVEN LOCKS TO WITHIN 50' OF THE NEW BUILDING'S FRONT ENTRANCE, PER MCFRS REQUIREMENTS.
- 2. ADDED THREE BOLLARD LIGHTS ALONG FRONT SIDEWALK LEADING TO THE NEW BUILDING, AND REVISED LIGHT POLE LOCATION TO ACCOMODATE WIDER FIRE ACCESS LANE.
- 3. ADDED FIRE LANE NO PARKIGN SIGNS, PAINTED CURB FOR FIRE LANE, AND ADDED STRIPED FIRE LANE MARKINGS IN PARKING AREA, PER MCFRS REQUIREMENT.
- 4. RECONFIGURED PARKING AREA BY SHIFTING PARKING SPACES SOUTH AND REDUCING PARKING ISLAND TO ACCOMODATE REQUIRED 20' FIRE ACCESS LANE.
- 5. MOVED PARKING LOT LIGHT POLE TO ACCOMODATE REVISED PARKING LAYOUT.

REVIEWED

By Michael Kyne at 9:06 pm, Aug 31, 2022

**APPROVED** 

**Montgomery County** 

**Historic Preservation Commission** 

Rame La Mar

# HISTORIC AREA WORK PERMIT CHECKLIST OF APPLICATION REQUIREMENTS

	Required Attachments							
Proposed Work	I. Written Description	2. Site Plan	3. Plans/ Elevations	4. Material Specifications	5. Photographs	6. Tree Survey	7. Property Owner Addresses	
New Construction	*	*	*	*	*	*	*	
Additions/ Alterations	*	*	*	*	*	*	*	
Demolition	*	*	*		*		*	
Deck/Porch	*	*	*	*	*	*	*	
Fence/Wall	*	*	*	*	*	*		
Driveway/ Parking Area	*	*		*	*	*	*	
Grading/Exc avation/Land scaing	*	*		*	*	*	*	
Tree Removal	*	*		*	*	*	*	
Siding/Roof Changes	*	*	*	*	*		*	
Window/ Door Changes	*	*	*	*	*		*	
Masonry Repair/ Repoint	*	*	*	*	*		*	
Signs	*	*	*	*	*		*	

**REVIEWED** 

By Michael Kyne at 9:06 pm, Aug 31, 2022

APPROVED

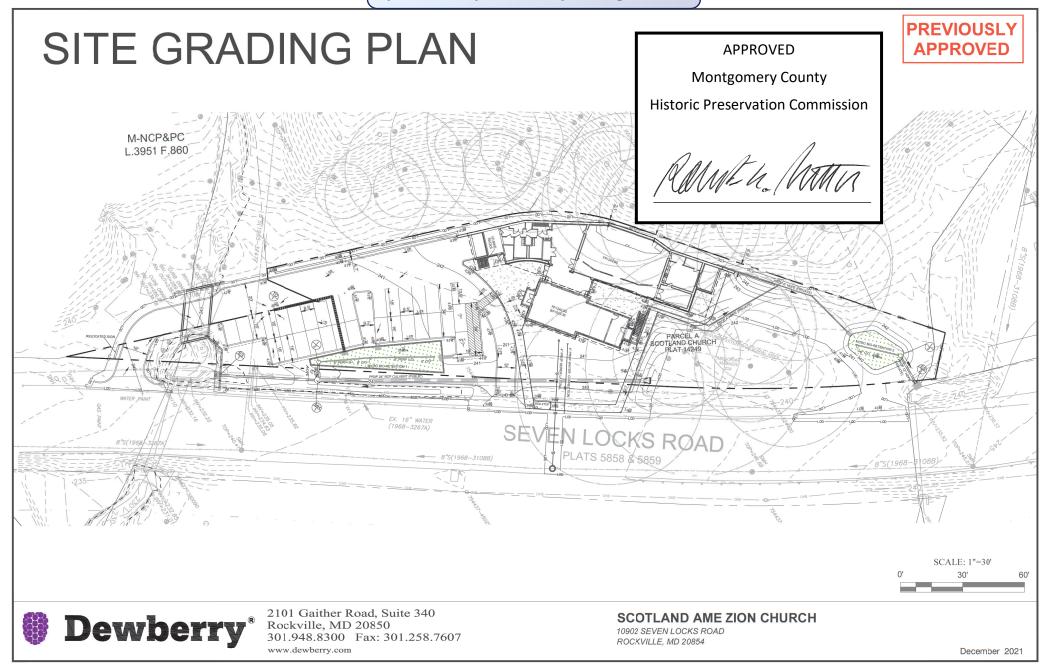
**Montgomery County** 

**Historic Preservation Commission** 

Rametho Man

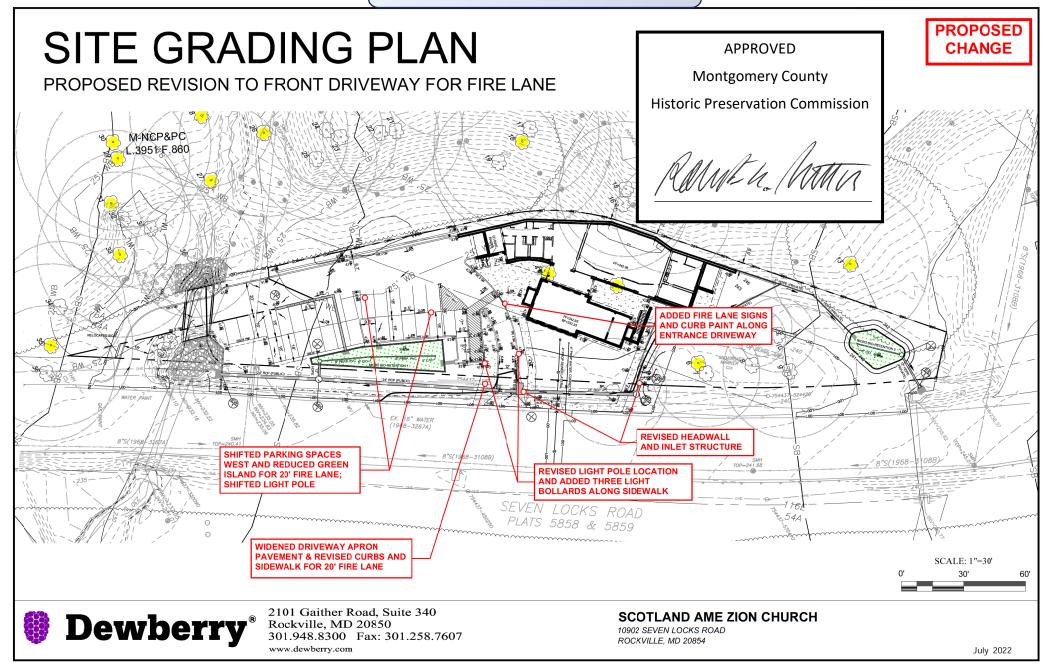
# **REVIEWED**

By Michael Kyne at 9:08 pm, Aug 31, 2022



# **REVIEWED**

By Michael Kyne at 9:08 pm, Aug 31, 2022







LOCATION: DATE: TYPE: **PROJECT** 

CATALOG #

**PROPOSED** CHANGE

# Pavilion<sup>\*</sup>

# Pavilion

# RELATED PRODUCTS

8 Pavilion Round

8 Pavilion Round Impact Rated

# **FEATURES**

- · IDA Dark Sky Compliant, No Up-light configuration
- · Elegant form factor blended with Performance Optics
- · Integral NEMA 3R Enclosure
- Dual receptacle power panel
- · PA System capability
- · Bluetooth enabled RGBW accent







# CONTROL TECHNOLOGY







#### **SPECIFICATIONS**

# CONSTRUCTION

# HOUSING:

- Castings are low copper aluminum alloy die-cast
- · Gaskets are molded silicone to prevent harmful ingress to the lamp and driver compartments
- · IP65 rated

#### SHAFT:

- · Aluminum shaft(s) is .188" thick extruded aluminum 6061 alloy
- · Concrete shaft(s) conforms to current specifications for "Portland Cement." ASTM C150, Type I or II. Aggregates shall meet current requirements of "Specifications for Concrete

Aggreg REVIEWED of silt, oil and fre acids, reinfor

By Michael Kyne at 9:06 pm, Aug 31, 2022

Concrete shaft(s) is medium sand-blasted with anti-graffiti sealer and material color shall be

- integral to the concrete mix · Concrete shaft(s) is cured to allow for completion of the hydration process, and result in a 28 day compressive strength of not less
- · Concrete shaft(s) is cast from fiberglass molds used to insure uniform parts. Mold parting lines maybe slightly visible in finished parts

# **OPTICS**

- · LEDs mount to a metal printed circuit board assembly (MCPCB)
- · Optical lenses are clear injection molded PMMA acrylic
- · U0 configurations have an optically clear flat tempered glass lens, all other configurations have either an optically clear or high transmission diffused acrylic lens

# INSTALLATION

· Aluminum shaft configurations 3/8" x 10" x 2" zinc plated L-hoo bolts shall to be installed with a template. Nuts and washers are level and secure the mounting

ble to aiming adjustment

· Concrete shaft configurations wi steel mounting tabs for installation x 10" + 2" zinc electroplated L-ho bolts. Each anchor bolt is supplied

nuts, two washers, and a rigid pressed board template

- · Concrete shaft configurations are palletized with adequate hold-downs to prevent load movement in transit
- Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

#### **ELECTRICAL**

- · Universal voltage, 120 through 277V with a ±10% tolerance. Driver is Underwriters Laboratories listed
- High voltage configurations, 208-277, 347/480. Driver is Underwriters Laboratories listed
- · "Thermal Shield", secondary side, thermistor provides protection for the sustainable life of LED module and electronic components
- · Drivers are greater than a 0.9 power factor,

# **APPROVED**

Montgomery County

**Historic Preservation Commission** 

Call the

a at 100% nt. Both egral thermal aire upon cess of 85°C

n, and

C to 40°C

(Specifications continued on page 3)

KEY DATA	
Lumen Range	673-2162
Wattage Range	14-22
Efficacy Range (LPW)	43-107
Reported Life (Hours)	L70/60,000



than 4.500 psi





DATE:	LOCATION:
TYPE:	PROJECT:
CATALOG #:	

# ORDERING GUIDE

Example: PA7S-FT-NU-1-12L-010-5K7-24A-BLS-SWP-UNV-EM

CATALOG #

# HOUSING

PA7S													
Model Top Optics I				Distrib	oution	Light Engine							
PA7S	Pavilion 7"	FT	Flat Top	NU	No Up-light	1	Type I	12L-010-AMB 11	14W, Monochromatic Amber				
	Ø Square	PT <sup>1</sup>	Peaked Top	CH	Clear Horizontal Lens	2	Type II	12L-010-3K7	14W (1000 nominal lm), 3000K, 70 CRI				
				CL <sup>2</sup>	Clear Vertical Lens	3	Type III	12L-010-4K7	14W (1000 nominal lm), 4000K, 70 CRI				
				DL 2,3	Diffuse Vertical Lens	3HS	Type III + House side shield	12L-010-5K7	14W (1000 nominal lm), 5000K, 70 CRI				
				LV	Louvers	4	Type IV	12L-020-AMB 11	22W, Monochromatic Amber				
				GC	Grille with clear	5	Type V	12L-020-3K7	22W (2000 nominal lm), 3000K, 70 CRI				
					vertical lens			12L-020-4K7	22W (2000 nominal lm), 4000K, 70 CRI				
				GD <sup>3</sup>	Grille with diffuse			12L-020-5K7	22W (2000 nominal lm), 5000K, 70 CRI				
					vertical lens			Consult factory for	other CCTs (2700K - 6500K) and CRIs (80, 90 C				

		TBD							
Body		Fixture	Finish	Control Opt	ions	Voltage		Option	s
24A 42A 42BR-C 42CH-C 42NG-C 42WH-C	24" OAH, Aluminum 42" OAH, Aluminum 42" OAH, Brown Concrete 42" OAH, Charcoal Concrete 42" OAH, Natural Gray COAH, White Concrete	BLS BLT DBS GTT LGS PSS VGS WHS	Black Smooth Black Textured Dark Bronze Smooth Graphite Textured Light Gray Smooth Platinum Silver Smooth Verde Green Smooth White Smooth	SWP 1.5 MW 6 NXWE SiteSync Ad SWUSB SWTAB SWBRG	SiteSync Software on USB SiteSync Windows® Tablet SiteSync Wireless	UNV 120 <sup>7</sup> 277 <sup>7</sup> 347 <sup>7</sup> 480 <sup>7</sup>	120-277V 120V 208-277V 347V 480V	EM <sup>8</sup> LR <sup>9</sup> SF <sup>10</sup> DF <sup>10</sup>	Battery Backup Luminous Accent Single Fuse Double Fuse
42A-ROP-L <sup>4</sup> 42A-2GEB	42" OAH, Aluminum + Dual Receptacle Outlet Panel and Cover 42" OAH, Aluminum + Dual Receptacle Outlet Panel and Locking Cover 42" OAH, Aluminum +		Custom Color* ult factory for custom narine and corrosive otions	INFORMATION When ordering control option required to commission information reincludes Promoted and Operating When the control of the control	ng a fixture with the SiteSync lighting n, additional information will be somplete the order. The SiteSync ing Form or alternate schedule must be completed. This form ject location, Group information, ng schedules. For more detailed				
42A-SG3	Integral Recessed 2 Gang Electrical Box 42" OAH, Aluminum + Speaker Grille Enclosure for 3" Ø speaker			contact Hub 345-4928. Examples:	olease visit IILighting.com/products/sitesync or bell Lighting tech support at (800) 3/12L-020-3K7/42A/TT/SWP/UNV/LR				

# **REVIEWED**

By Michael Kyne at 9:06 pm, Aug 31, 2022

**APPROVED Montgomery County Historic Preservation Commission** amth.

east one option

or SF for 120, 277 and 347 input voltage, DF for 208, 240 and 480 input voltage.

Turtle friendly



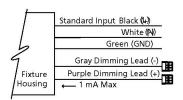


# SPECIFICATIONS CONT'D

DATE:	LOCATION:
TYPE:	PROJECT:
E-	

#### CONTROLS

 Standard fixtures dimming range shall be from 10% to 100% and be compatible with 0-10V, user-defined, control devices



 Optional motion sensor shall be capable of detecting motion 360° around the bollard.
 When no motion is detected for the specified time, the sensor wattage to factory preset level, reducing the light level accordingly.
 When motion is detected by the sensor, the bollard shall return to full wattage and full light output. Please contact KIM Lighting if project requirements vary from standard configuration

# WIRELESS CONTROLS

# BLUETOOTH:

- The Integral module shall enable the adjustment of the Luminous Accent to dim or change color to the desired setting when paired with Hubbell Lighting RGBW Remote App via celluar/tablet device
- The integral module shall be compatible with Bluetood Low Energy (BLE) or Bluetooth Smart mobile devices operating on iOS8 or Android Gingerbread operating systems or newer
- Mobile App. dimming range from 0% to 100% through the use of HUBBELL LIGHTING RGBW app (available on IOS and Android)
- · Color selection and adjustment
- · Camera function for color matching
- Intensity slider for dimming/ramping up
- · Save and rename up to 10 presets
- · Group and rename fixtures
- Fixture is password protected, refer to instructions to set unique password

#### DMX:

- 6 wires: Red (DMX+), Brown (DMX-), Yellow (DMX Ground), Black (Line Voltage), White (common), and Green (Ground)
- Single DMX universe with six slots/addresses of virtual control which are pre-programmed at the factory:

CATALOG #:

- DMX slot/address 1 = red
- DMX slot/address 2 = green
- DMX slot/address 3 = blue
- DMX slot/address 4 = white
- · Fully DMX RDM compatible
- Mobile App specification in additional information section

#### SITESYNC™1

 SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7.
 See ordering information or visit www. hubbelllighting.com/products/sitesync for more details.

#### NX

 Luminaires enabled with NX Distributed Intelligence™ wireless radios create an intelligent mesh networkwith the interior controls. Groups are dimmed via an astronomical time clock and schedules can be updated at any time with the Bluetooth® commissioning app.

# OPTIONAL BACKUP BATTERY

 Integral battery backup provides emergency path of egress lighting for the required 90 minutes for 0°C ambient environments

#### CAUTION:

 Fixtures must be grounded in accordance with national, state and/or local electrical codes. Failure to do so may result in serious personal injury

#### **CERTIFICATIONS AND LISTINGS**

- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- · IP65 optical system
- IEC 66262 Mechanical Impact Code IK10
- IDA approved, 3000K and warmer CCTs only.
- · RoHS compliant

# WARRANTY

- 5 year warranty
- See <u>HLI Standard Warranty</u> for additional information

\*PRECOMMISSIONED SITESYNC ORDERING INFORMATION: When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit www.HubbellLighting.com/products/sitesync or contact Hubbell Lighting tech support at (800) 345-4928

Examples: PA7R/FT/NU3/I2L-020-3K7/42A/TT/SWP/UNV/LR

**REVIEWED**By Michael Kyne at 9:06 pm, Aug 31, 2022

APPROVED

**Montgomery County** 

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**Historic Preservation Commission** 

**Bluetooth** 

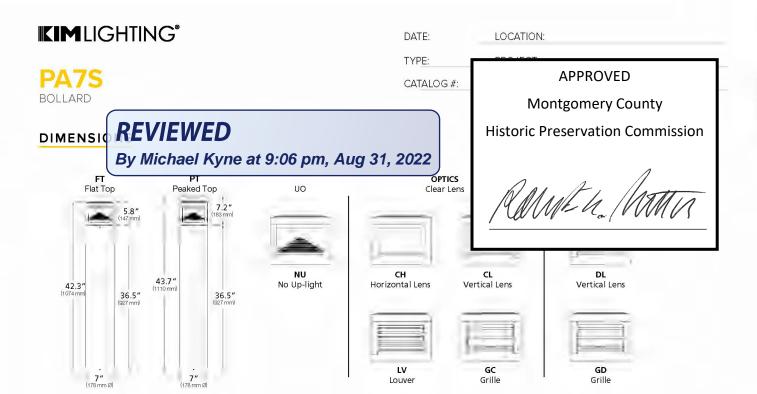




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Apple, the Apple logo, iPad, iPhone, and iPod Touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a service mark of Apple Inc. Google Play is a trademark of Google Inc.





# **DELIVERED LUMENS**

						3000	K 70	CRI			4000	K 70	CRI			5000	K 70	CRI	
Drive Current	LEDs #	Nominal Lumens	Lens Options	Distribution	1	BU	G Ra	ing	1 4	1	BU	G Rat	ing	lee to	1	BU	G Rat	ing	lm/w
			-   -   -   -   -   -   -   -   -   -		Lumen	В	U	G	lm/w	Lumen	В	U	G	lm/w	Lumen	В	U	G	Im/w
				1	1019	0	0	0	47	1025	0	0	0	47	1091	0	0	0	50
				2	1209	0	0	0	56	1216	0	0	0	56	1294	0	0	0	60
			NU	3	1203	0	0	0	55	1210	0	0	0	56	1289	0	0	0	59
			U0 Optics	3HS	1132	0	0	0	52	1138	0	0	0	52	1212	0	0	0	56
				4	1330	0	0	0	61	1337	0	0	0	62	1424	0	0	0	66
				5	1273	1	0	0	59	1281	1	0	0	59	1363	1	0	0	63
			CH Clear Horizontal Lens	11	1784	0	3	1	82	1794	0	3	1	83	1910	0	3	1	88
				2	1680	1	3	1	77	1690	1	3	1	78	1799	1	3	1	83
				3	1723	1	3	1	79	1802	1	3	1	83	1772	1	3	1	82
				3HS	1375	0	3	1	63	1383	0	3	1	64	1473	0	3	1	68
550mA	12L	2,000	ECHS	4	1701	0	3	1	78	1710	0	3	1	79	1821	0	3	1	84
				5	1635	1	3	1	75	1644	1	3	1	76	1751	1	3	1	81
				1	1792	0	3	1	82	1802	0	3	1	83	1918	0	3	1	88
				2	1886	1	3	1	87	1897	1	3	1	87	2020	1	3	1	93
			CL	3	1902	1	3	1	88	1913	1	3	1	88	2037	1	3	1	94
			Clear Vertical Lens	3HS	1582	0	3	1	73	1591	0	3	1	73	1694	0	3	1	78
				4	2019	1	3	1	93	2031	1	3	1	93	2162	1	3	1	100
			5	1957	1	3	1	90	1968	1	3	1	91	2096	2	3	1	96	
			DL	1	1625	1	3	1	75	1635	1	3	1	75	1740	1	3	1	80
			Diffused Vertical Lens	5	1795	1	3	1	83	1805	1	3	1	83	1922	1	3	1	88





DATE:	LOCATION:

TYPE: PROJECT:

CATALOG #:

# **DELIVERED LUMENS (CONTINUED)**

					;	3000	K 70	CRI		4	000	<b>&lt; 7</b> 0	CRI		!	5000	K 70	CRI	
Drive Current	LEDs #	Nominal Lumens	Lens Options	Distribution	Lumen	BU	G Ra	ting	lm/w	Lumen	BUG Rating			lm/w	Lumen	BUG Rating			lm/w
						В	U	G			В	U	G			В	U	G	
				1	1093	1	3	1	50	1100	1	3	1	51	1171	1	3	1	54
				2	1127	1	3	1	52	1133	1	3	1	52	1206	1	3	1	56
			LV	3	1161	1	3	1	53	1168	1	3	1	54	1243	1	3	1	57
			External Louvers	3HS	927	0	3	1	43	932	0	3	1	43	992	0	3	1	46
				4	1243	1	3	1	57	1250	1	3	1	58	1331	1	3	1	61
				5	1235	1	3	1	57	1242	1	3	1	57	1323	1	3	1	61
				1	1236	0	3	1	57	1243	0	3	1	57	1324	0	3	1	61
550mA	12L 2,000	2,000		2	1269	1	3	1	58	1276	1	3	1	59	1358	1	3	1	63
			"GC	3	1269	1	3	1	58	1276	1	3	1	59	1359	1	3	1	63
			Grill with Clear Lens"	3HS	1034	0	3	1	48	1040	0	3	1	48	1107	0	3	1	51
				4	1394	0	3	1	64	1402	0	3	1	65	1493	1	3	1	69
				5	1316	1	3	1	61	1323	1	3	1	61	1409	1	3	1	65
			GD GD	1	1215	0	3	1	56	1222	0	3	1	56	1301	1	3	1	60
			Grill with Diffused Lens	5	1329	1	3	1	61	1336	1	3	1	62	1423	1	3	1	66

**REVIEWED** 

By Michael Kyne at 9:06 pm, Aug 31, 2022

**APPROVED** 

**Montgomery County** 

**Historic Preservation Commission** 

Rame h. Man







DATE:	LOCATION:

TYPE: PROJECT:

CATALOG #:

# **DELIVERED LUMENS (CONTINUED)**

						3000	K 70	CRI		4	000	K 70	CRI			5000K 70CRI				
Drive Current	LEDs #	Nominal Lumens	Lens Options	Distribution	Lumen	BU	G Ra	ting	lm/w	Lumen	BUG Rating		lm/w	Lumen	BUG Rating		lm/\			
						В	U	G			В	U	G			В	U	G		
				1	673	0	0	0	48	677	0	0	0	48	721	0	0	0	5	
				2	798	0	0	0	57	803	0	0	0	57	855	0	0	0	6	
			NU	3	795	0	0	0	57	800	0	0	0	57	851	0	0	0	6	
			U0 Optics	3HS	748	0	0	0	53	752	0	0	0	54	800	0	0	0	5	
				4	879	0	0	0	63	883	0	0	0	63	941	0	0	0	6	
				5	841	1	0	0	60	846	1	0	0	60	901	1	0	0	6.	
				_1	1129	0	3	1	81	1135	0	3	1	81	1209	0	3	1	86	
				2	1063	0	3	1	76	1069	0	3	1	76	1138	0	3	1	8	
			CH Clear Harizantal	3	1047	0	3	1	75	1053	0	3	1	75	1121	0	3	1	80	
			Clear Horizontal Lens	3HS	870	0	3	1	62	875	0	3	1	63	932	0	3	1	6	
				4	1076	0	3	1	77	1082	0	3	1	77	1152	0	3	1	8:	
				5	1035	1	3	1	74	1040	1	3	1	74	1108	1	3	1	79	
				1	1243	0	3	1	89	1250	0	3	1	89	1331	0	3	1	9	
		12L 1,000	DL	2	1309	0	3	1	93	1316	0	3	1	94	1401	1	3	1	10	
	12L			3	1320	0	3	1	94	1328	0	3	1	95	1414	1	3	1	10	
				3HS	1097	0	3	1	78	1104	0	3	1	79	1175	0	3	1	8	
				4	1402	0	3	1	100	1409	0	3	1	101	1501	0	3	1	10	
350mA				5	1358	1	3	1	97	1366	1	3	1	98	1454	1	3	1	10	
				1	1109	0	3	1	79	1115	0	3	1	80	1187	0	3	1	8	
			Diffused Vertical Lens	5	1218	1	3	1	87	1225	5 1 3 1 88	1305	1	3	1	9:				
				1	812	0	3	1	58	817	0	3 1 58	869	0	3	1	62			
				2	837	1	3	1	60	841	1	3	1	60	896	1	3	1	64	
			LV	3	862	0	3	1	62	867	0	3	1	62	923	0	3	1	66	
			External Louvers	3HS	688	0	3	1	49	692	0	3	1	49	737	0	3	1	53	
					4	923	0	3	1	66	928	0	3	1	66	988	0	3	1	7
			GC Grill with Clear Lens	5	917	1	3	1	66	922	1	3	1	66	982	1	3	1	70	
				1	938	0	3	1	67	943	0	3	1	67	1004	0	3	1	72	
				2	962	0	3	1	69	968	0	3	1	69	1031	0	3	1	7.	
				3	963	0	3	1	69	968	0	3	1	69	1031	0	3	1	7.	
				3HS	784	0	3	1						60						
				4	1058	0	3	1	Montgomory County				1	8						
				5	908	1	3	1						3	1	70				
	DE	/IE\A/	ED GD				3	1	∐ic+	oric Dr	۵۲۵	rva	ti^	n Con	nmissia	nn.	3	1	6:	
	<b>REVIEWED</b> GD 1 804 0 3 1 History 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Historic Preservation Commission				ווע	_	<u> </u>											

\* HUBBELL Lighting

Rameta Man



PA7S BOLLARD DATE:

LOCATION:

TYPE:

CATALOG #

**APPROVED** 

**Montgomery County** 

**Historic Preservation Commission** 

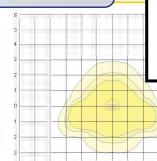
Ramath Mann

# REVIEWED

PA7S-CH1-1: LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI	
Delivered Lumens	1794	
Watts	21.84	
Efficacy	82.0	
IES Type	I	
BUG Rating	B0-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire	
Downward Street Side	1021	80.3%	
Downward House Side	251	19.7%	
Downward Total	1272	71%	
Upward Street Side	318	61%	
Upward House Side	204	39%	
Upward Total	522	29%	
Total Flux	1794	100%	

# PA7S-CH2-12L-020-4K7

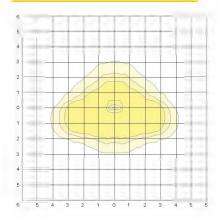
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1690	
Watts	21.79	
Efficacy	78.0	
IES Type	II	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire 77.8%	
Downward Street Side	1046		
Downward House Side	299	22.2%	
Downward Total	1345	79%	
Upward Street Side	201	58%	
Upward House Side	146	42%	
Upward Total	347	21%	
Total Flux	1692	100%	

# ISOFOOT CANDLE PLOT



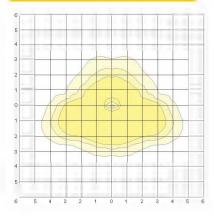
#### PA7S-CH3-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1802
Watts	21.97
Efficacy	82.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire 79.2%	
Downward Street Side	1165		
Downward House Side	306	20.8%	
Downward Total	1471	82%	
Upward Street Side	190	57%	
Upward House Side	142	43%	
Upward Total	332	18%	
Total Flux	1803	100%	





DATE: TYPE:

CATALOG #

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**Montgomery County** 

**Historic Preservation Commission** 

PA7S

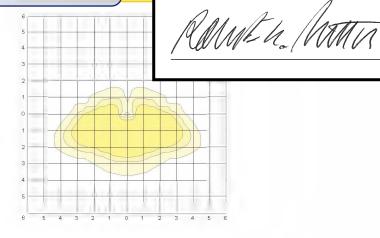
BOLLARD

REVIEWED DED

PA7S-CH3F LUMINAIR

By Michael Kyne at 9:06 pm, Aug 31, 2022 or

Description	4000K, 70CRI
Delivered Lumens	1383
Watts	21.78
Efficacy	63.0
IES Type	II
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire	
Downward Street Side	992	90.0%	
Downward House Side	110	10.0%	
Downward Total	1102	80%	
Upward Street Side	216	77%	
Upward House Side	66	23%	
Upward Total	281	20%	
Total Flux	1383	100%	

#### PA7S-CH4-12L-020-4K7

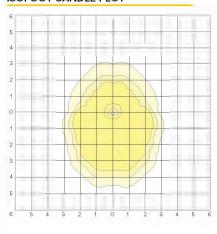
# LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1711
Watts	21.6
Efficacy	79.0
IES Type	IV
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire 83.7%	
Downward Street Side	1180		
Downward House Side	231	16.4%	
Downward Total	1410	82%	
Upward Street Side	171	57%	
Upward House Side	130	43%	
Upward Total	301	18%	
Total Flux	1711	100%	

# ISOFOOT CANDLE PLOT



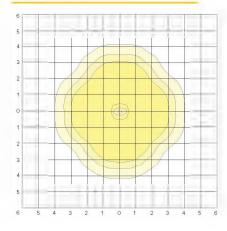
# PA7S-CH5-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI
Delivered Lumens	1644
Watts	21.57
Efficacy	76.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	686	50.0%
Downward House Side	686	50.0%
Downward Total	1372	83%
Upward Street Side	136	50%
Upward House Side	136	50%
Upward Total	272	17%
Total Flux	1644	100%





CATALOG #

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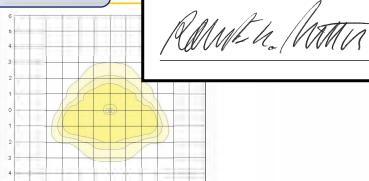
BOLLARD

REVIEWED DED

PA7S-CL1-12 LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI
Delivered Lumens	1802
Watts	21.72
Efficacy	83.0
IES Type	I
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	1026	79.1%
Downward House Side	271	20.9%
Downward Total	1297	72%
Upward Street Side	305	60%
Upward House Side	202	40%
Upward Total	507	28%
Total Flux	1804	100%

# PA7S-CL2-12L-020-4K7

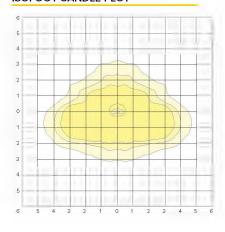
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1897	
Watts	21.54	
Efficacy	88.0	
IES Type	II	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	1183	78.1%
Downward House Side	332	21.9%
Downward Total	1515	80%
Upward Street Side	224	58%
Upward House Side	159	42%
Upward Total	383	20%
Total Flux	1898	100%

# ISOFOOT CANDLE PLOT



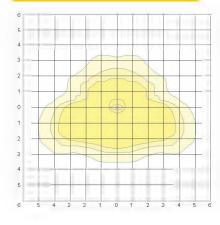
#### PA7S-CL3-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	1913	
Watts	21.55	
Efficacy	89.0	
IES Type	III	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	1254	79.6%
Downward House Side	322	20.4%
Downward Total	1576	82%
Upward Street Side	196	58%
Upward House Side	142	42%
Upward Total	338	18%
Total Flux	1914	100%





DATE: TYPE:

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**Historic Preservation Commission** 

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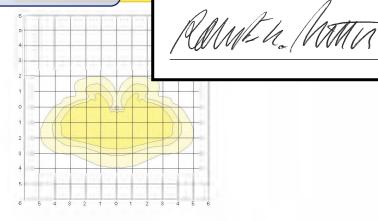
BOLLARD

REVIEWED D

PA7S-CL3H LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI
Delivered Lumens	1591
Watts	21.71
Efficacy	73.0
IES Type	III
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	1141	89.0%
Downward House Side	141	11.0%
Downward Total	1282	81%
Upward Street Side	235	76%
Upward House Side	74	24%
Upward Total	310	19%
Total Flux	1592	100%

#### PA7S-CL4-12L-020-4K7

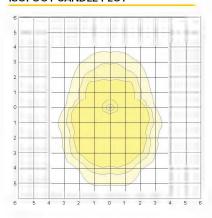
# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	2031	
Watts	21.72	
Efficacy	94.0	
IES Type	IV	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	1432	84.4%
Downward House Side	265	15.6%
Downward Total	1697	84%
Upward Street Side	189	56%
Upward House Side	146	44%
Upward Total	335	16%
Total Flux	2032	100%

# ISOFOOT CANDLE PLOT



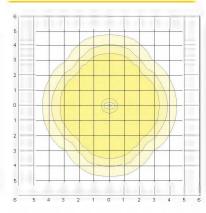
# PA7S-CL5-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	1968	
Watts	21.72	
Efficacy	91.0	
IES Type	VS	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	834	50.0%
Downward House Side	834	50.0%
Downward Total	1667	85%
Upward Street Side	151	50%
Upward House Side	151	50%
Upward Total	302	15%
Total Flux	1969	100%



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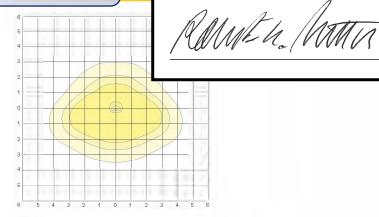
BOLLARD

REVIEWED D

PA7S-DL1-12

LUMINAIRE By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI
Delivered Lumens	1636
Watts	21.62
Efficacy	76.0
IES Type	II
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	802	71.9%
Downward House Side	314	28.1%
Downward Total	1116	68%
Upward Street Side	306	59%
Upward House Side	215	41%
Upward Total	521	32%
Total Flux	1637	100%

# PA7S-DL5-12L-020-4K7

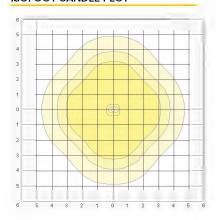
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1805	
Watts	21.73	
Efficacy	83.0	
IES Type	VS	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Crid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	725	50.0%
Downward House Side	725	50.0%
Downward Total	1449	80%
Upward Street Side	178	50%
Upward House Side	178	50%
Upward Total	356	20%
Total Flux	1805	100%

# ISOFOOT CANDLE PLOT



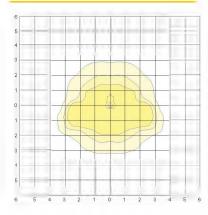
# PA7S-GC1-12L-020-4K7

# **LUMINAIRE DATA**

Description	4000K, 70CRI
Delivered Lumens	1242
Watts	21.84
Efficacy	57.0
IES Type	I
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	582	71.9%
Downward House Side	227	28.1%
Downward Total	809	65%
Upward Street Side	262	60%
Upward House Side	173	40%
Upward Total	435	35%
Total Flux	1244	100%





CATALOG #

LOCATION:

**APPROVED** 

**Montgomery County** 

**Historic Preservation Commission** 

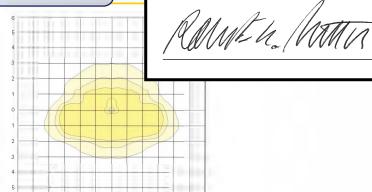
PA7S BOLLARD

REVIEWED ED

PA7S-GC2-1 LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022

Description	4000K, 70CRI	
Delivered Lumens	1276	
Watts	21.82	
Efficacy	58.0	
IES Type	II	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	676	72.4%
Downward House Side	258	27.6%
Downward Total	934	73%
Upward Street Side	205	60%
Upward House Side	138	40%
Upward Total	343	27%
Total Flux	1277	100%

# PA7S-GC3-12L-020-4K7

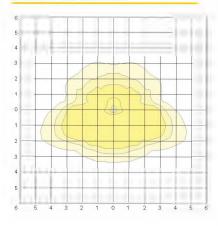
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1276	
Watts	21.68	
Efficacy	59.0	
IES Type	II	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	705	74.1%
Downward House Side	246	25.9%
Downward Total	951	74%
Upward Street Side	200	61%
Upward House Side	127	39%
Upward Total	327	26%
Total Flux	1278	100%

# ISOFOOT CANDLE PLOT



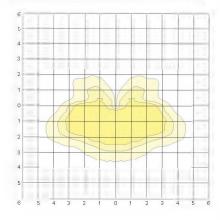
# PA7S-GC3HS-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	1040	
Watts	21.68	
Efficacy	48.0	
IES Type	III	
BUG Rating	B0-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

#### **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	657	85.5%
Downward House Side	112	14.6%
Downward Total	768	74%
Upward Street Side	218	80%
Upward House Side	54	20%
Upward Total	272	26%
Total Flux	1040	100%



CATALOG #

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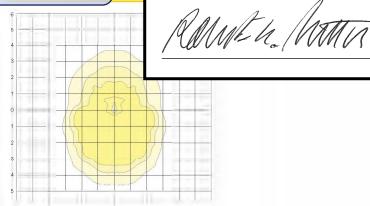
BOLLARD

REVIEWED DEDI

PA7S-GC4-LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 ot

Description	4000K, 70CRI
Delivered Lumens	1402
Watts	21.82
Efficacy	64.0
IES Type	IV
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# **ZONAL LUMEN SUMMARY**

Zone	Lumens % Lumina	
Downward Street Side	829	78.6%
Downward House Side	226	21.4%
Downward Total	1055	75%
Upward Street Side	219	63%
Upward House Side	130	37%
Upward Total	348	25%
Total Flux	1403	100%

# PA7S-GC5-12L-020-4K7

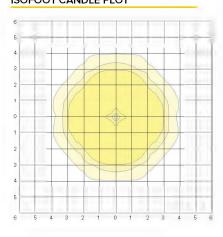
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1324	
Watts	21.71	
Efficacy	61.0	
IES Type	VS	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	505	50.0%
Downward House Side	505	50.0%
Downward Total	1010	76%
Upward Street Side	157	50%
Upward House Side	157	50%
Upward Total	314	24%
Total Flux	1324	100%

# ISOFOOT CANDLE PLOT



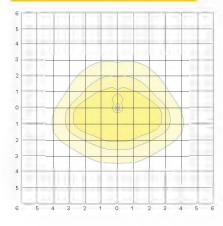
#### PA7S-GD1-12L-020-4K7

# **LUMINAIRE DATA**

Description	4000K, 70CRI
Delivered Lumens	1222
Watts	21.72
Efficacy	56.0
IES Type	II
BUG Rating	B0-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft

# **ZONAL LUMEN SUMMARY**

Zone	Lumens % Lum	
Downward Street Side	504	67.7%
Downward House Side	242	32.5%
Downward Total	745	61%
Upward Street Side	276	58%
Upward House Side	202	42%
Upward Total	477	39%
Total Flux	1222	100%





DATE: TYPE:

CATALOG #

LOCATION:

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**Montgomery County** 

**Historic Preservation Commission** 

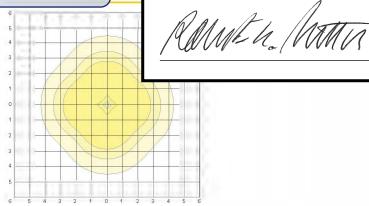
BOLLARD

REVIEWED DEDI

PA7S-GD5-LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 bt

Description	4000K, 70CRI
Delivered Lumens	1336
Watts	21.71
Efficacy	52.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	471	50.0%
Downward House Side	471	50.0%
Downward Total	942	70%
Upward Street Side	198	50%
Upward House Side	198	50%
Upward Total	395	30%
Total Flux	1337	100%

# PA7S-LV1-12L-020-4K7

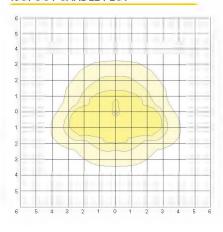
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1100	
Watts	21.63	
Efficacy	51.0	
IES Type	II	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens % Lumi	
Downward Street Side	493	66.0%
Downward House Side	254	34.0%
Downward Total	747	68%
Upward Street Side	222	63%
Upward House Side	132	37%
Upward Total	353	32%
Total Flux	1100	100%

# ISOFOOT CANDLE PLOT



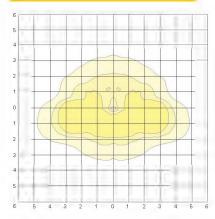
# PA7S-LV2-12L-020-4K7

# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1133	
Watts	21.64	
Efficacy	52.0	
IES Type	JI .	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	620	69.9%
Downward House Side	267	30.1%
Downward Total	887	78%
Upward Street Side	161	65%
Upward House Side	86	35%
Upward Total	247	22%
Total Flux	1134	100%





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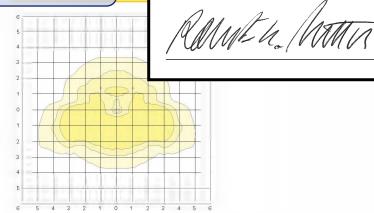
PA7S

PHOTO REVIEWED ED)

PA7S-LV3-12 LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI	
Delivered Lumens	1168	
Watts	21.65	
Efficacy	54.0	
IES Type	III	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	678	72.9%
Downward House Side	252	27.1%
Downward Total	930	80%
Upward Street Side	161	67%
Upward House Side	78	33%
Upward Total	239	20%
Total Flux	1169	100%

#### PA7S-LV3HS-12L-020-4K7

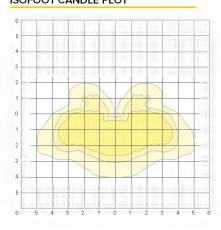
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	933	
Watts	21.66	
Efficacy	43.0	
IES Type	III	
BUG Rating	B0-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	619	84.6%
Downward House Side	114	15.6%
Downward Total	732	78%
Upward Street Side	161	80%
Upward House Side	40	20%
Upward Total	201	22%
Total Flux	933	100%

# ISOFOOT CANDLE PLOT



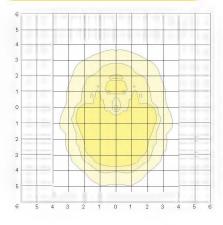
# PA7S-LV4-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	1250	
Watts	21.64	
Efficacy	58.0	
IES Type	IV	
BUG Rating	B1-U3-G1	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	779	77.7%
Downward House Side	223	22.2%
Downward Total	1003	80%
Upward Street Side	171	69%
Upward House Side	77	31%
Upward Total	248	20%
Total Flux	1251	100%





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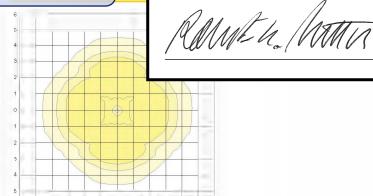
PA7S BOLLARD

REVIEWED ED

PA7S-LV5-12 LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI
Delivered Lumens	1242
Watts	21.63
Efficacy	57.0
IES Type	VS
BUG Rating	B1-U3-G1
Mounting Height	3.5 ft
Grid Scale	6 ft



# ZONAL LUMEN SUMMARY

Zone	Lumens	% Luminaire
Downward Street Side	511	50.0%
Downward House Side	511	50.0%
Downward Total	1023	82%
Upward Street Side	110	50%
Upward House Side	110	50%
Upward Total	219	18%
Total Flux	1242	100%

# PA7S-NU1-12L-020-4K7

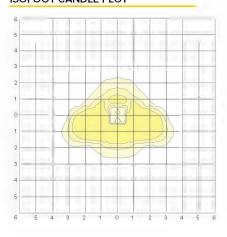
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1025	
Watts	21.86	
Efficacy	47.0	
IES Type	I	
BUG Rating	B0-U0-G0	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	881	85.9%
Downward House Side	145	14.1%
Downward Total	1026	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1026	100%

# ISOFOOT CANDLE PLOT



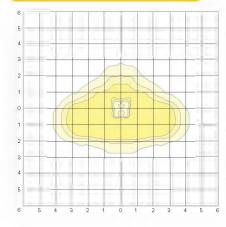
# PA7S-NU2-12L-020-4K7

# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	1216	
Watts	21.86	
Efficacy	56.0	
IES Type	II	
BUG Rating	B0-U0-G0	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	988	81.2%
Downward House Side	229	18.8%
Downward Total	1217	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1217	100%





CATALOG #

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**Historic Preservation Commission** 

PA7S

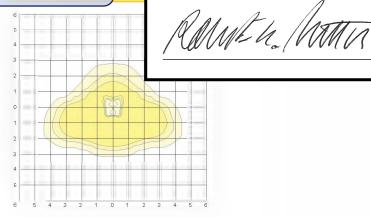
BOLLARD

REVIEWED DEDI

PA7S-NU3-1 LUMINAIRE

By Michael Kyne at 9:06 pm, Aug 31, 2022 pt

Description	4000K, 70CRI	
Delivered Lumens	1210	
Watts	21.86	
Efficacy	55.0	
IES Type	II	
BUG Rating	B0-U0-G0	
Mounting Height	3.5 ft	
Grid Scale	6 ft	



# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	1004	83.0%
Downward House Side	207	17.1%
Downward Total	1210	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1210	100%

# PA7S-NU3HS-12L-020-4K7

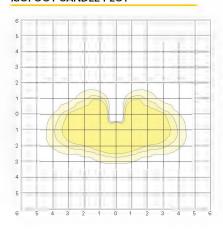
# LUMINAIRE DATA

Description	4000K, 70CRI	
Delivered Lumens	1138	
Watts	21.85	
Efficacy	52.0	
IES Type	II	
BUG Rating	B0-U0-G0	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	997	87.6%
Downward House Side	141	12.4%
Downward Total	1138	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	0	0%
Total Flux	1138	100%

# ISOFOOT CANDLE PLOT



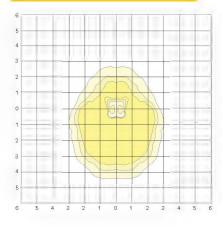
# PA7S-NU4-12L-020-4K7

# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1337	
Watts	21.85	
Efficacy	61.0	
IES Type	IV	
BUG Rating	B0-U0-G0	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire
Downward Street Side	1187	88.7%
Downward House Side	151	11.3%
Downward Total	1338	100%
Upward Street Side	0	0%
Upward House Side	0	0%
Upward Total	O	0%
Total Flux	1338	100%







DATE:	LOCATION:

TYPE: PROJECT:

CATALOG #:

# PHOTOMETRY(CONTINUED)

PA7S-NU5-12L-020-4K7

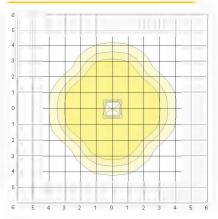
# **LUMINAIRE DATA**

Description	4000K, 70CRI	
Delivered Lumens	1281	
Watts	21.84	
Efficacy	59.0	
IES Type	VS	
BUG Rating	B1-U0-G0	
Mounting Height	3.5 ft	
Grid Scale	6 ft	

# **ZONAL LUMEN SUMMARY**

Zone	Lumens	% Luminaire		
Downward Street Side	641	50.0%		
Downward House Side	641	50.0%		
Downward Total	1282	100%		
Upward Street Side	0	0%		
Upward House Side	0	0%		
Upward Total	0	0%		
Total Flux	1282	100%		

# ISOFOOT CANDLE PLOT



# **REVIEWED**

By Michael Kyne at 9:06 pm, Aug 31, 2022

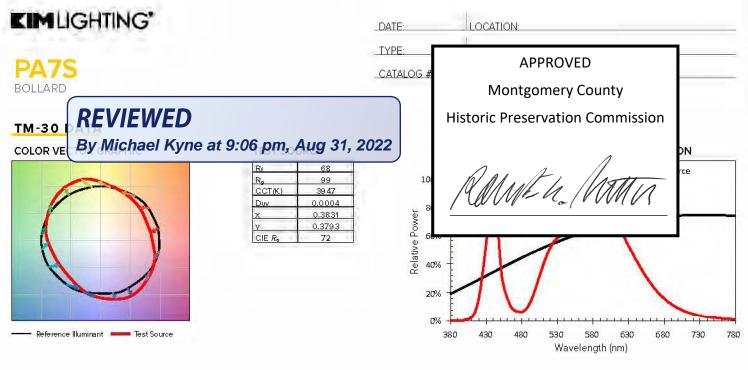
# **APPROVED**

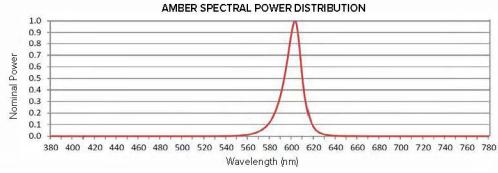
Montgomery County

**Historic Preservation Commission** 

Rame La Man







# **ELECTRICAL DATA**

													Di	mming			
Drive	System	Line V	'oltage	Amps AC			Min. Max Dimming Re	Dimming Range	out of	current 0-10V		e voltage n 0-10V (+)					
Current	Watts	VAC Hz 120 208 240 277 347 480 Factor	THD (%)		Min	Max	Min	Max									
500mA	22	120-480	50/60	0.18	O.11	0.09	0.08	0.06	0.05	<b>\00</b>	20	10% to 100%	0mA	1mA	ΟV	10)./	
350mA	14	120-400	50/60	0.12	0.07	0.06	0.05	0.04	0.03	>0.9	>0.9	20	10%10100%	OHA	IIIA	UV	10V

TM-2	1 Lifetime Ca	lculation - Pro	jected Lumer	Maintenance	(25°C/77°C)	
Ambient Temp.	0	25,000	36,000	50,000	100,000	Reported L70
25°C / 77°F	100%	98%	97%	95%	90%	60khrs
40°C / 104°F	100%	98%	97%	95%	90%	JOORIIS

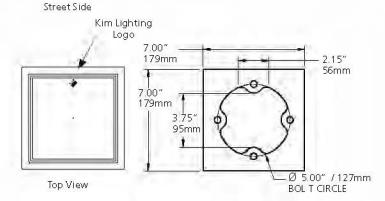
CCT	80 CRI	90 CRI
2700K	0.859	0.655
3000K	0.9119	0.7033
3500K	0.906	0.732
4000K	0.8941	0.734
5000K	0.879	0.7712



#### MOUNTING

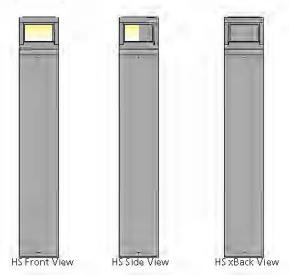
# ALUMINUM BODY

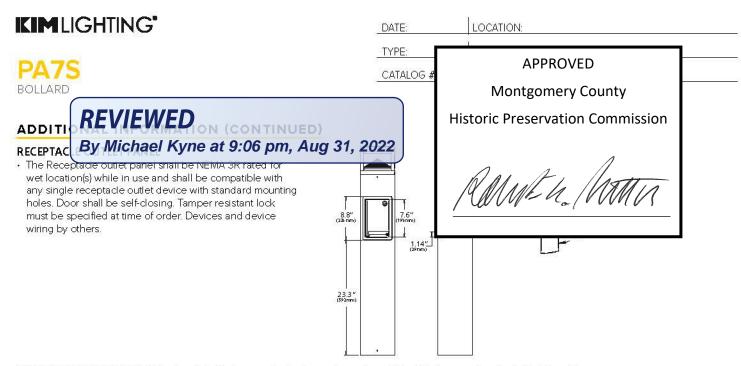
 Once attached to base mounting plate, fixture may be rotated 20° in either direction and secured with set screws at base of the bollard body. KIM Lighting logo indicates 'street side' output.



# SHIELDING

HS configurations feature factory installed 180° shield(s) that may also be installed in the field for any
Optic configuration.

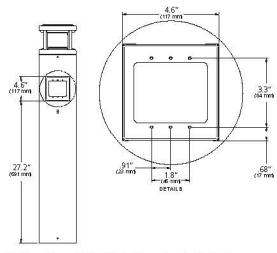




HUBBELL WIRING DEVICES USB DEVICES: http://ecatalog.hubbell-wiring.com/productinformation/viewcatalog.aspx?Dest=hubbell-wiring.com/press/catalog/A.pdf&Page=18

#### INTEGRAL ELECTRICAL BOX

 The integral 2 Gang electrical box shall be 3" deep and have standard mounting holes for installing either a single receptacle outlet device or a pair of single receptacle outlet device. Devices, device wiring, device hardware and bezel by others.



HUBBELL WIRING DEVICES GFCI DEVICES: http://ecata.log/hubbell-wiring.com/productinformation/viewcatalogaspx?Dest=hubbell-wiring.com/press/catalog/K.pdf

# SPEAKER GRILLE ENCLOSURE

 The speaker grille enclosure shall accommodate a 3"Ø marine grade speaker rated for outdoor use. Grille shall be secured with (4) Torx # screws for accessibility. Mounting provisions as shown. Speaker, mounting hardware and wiring by others.



