

**MONTGOMERY COUNTY HISTORIC PRESERVATION COMMISSION**  
**STAFF REPORT**

<b>Address:</b>	7210 Spruce Avenue, Takoma Park	<b>Meeting Date:</b>	07/25/2018
<b>Resource:</b>	Contributing Resource (Takoma Park Historic District)	<b>Report Date:</b>	07/18/2018
<b>Applicant:</b>	Miki Matsuura	<b>Public Notice:</b>	07/11/2018
<b>Review:</b>	HAWP	<b>Tax Credit:</b>	Partial
<b>Case Number:</b>	37/03-18XX	<b>Staff:</b>	Rebecca Ballo
<b>PROPOSAL:</b>	Lighting installation, new lattice, new electrical box.		

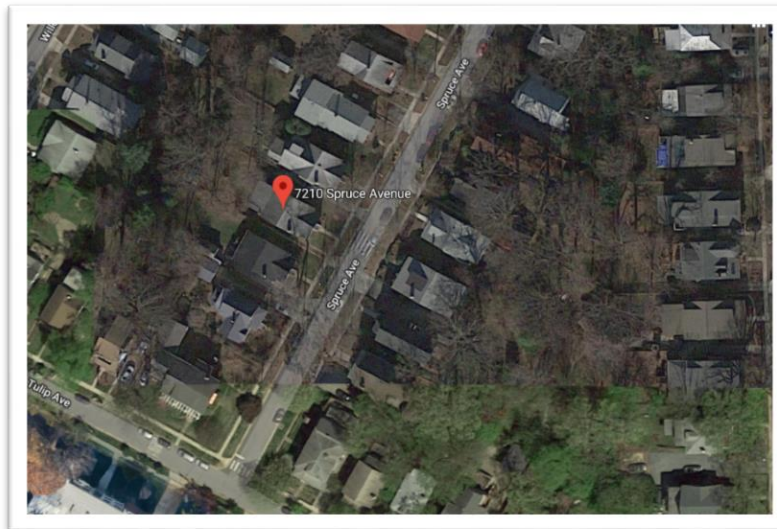
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**STAFF RECOMMENDATION**

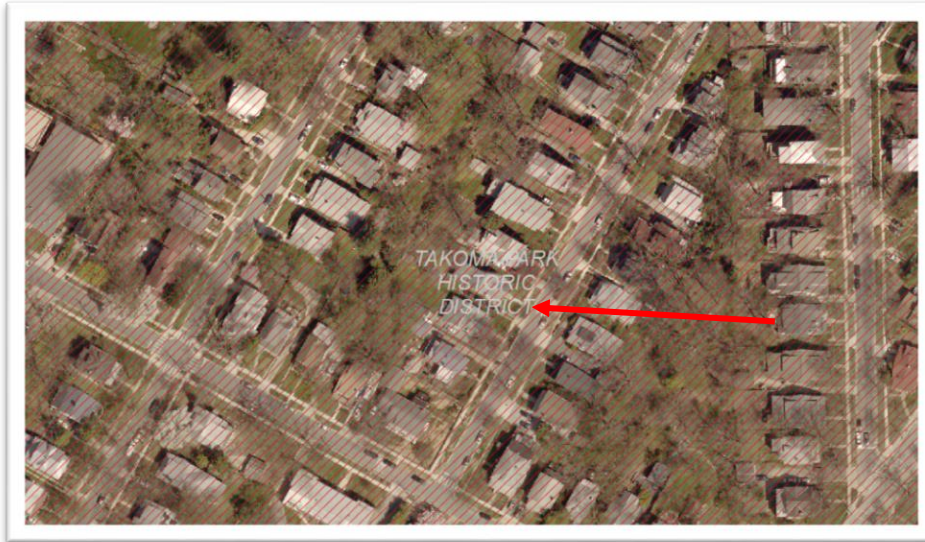
Staff recommends that the HPC **approve** the HAWP application.

**ARCHITECTURAL DESCRIPTION**

**SIGNIFICANCE:** Contributing Resource within the Takoma Park Historic District  
**STYLE:** Craftsman  
**DATE:** c. 1915-25



*Fig. 1: 2017 Aerial of Subject Property.*



*Fig. 2: Takoma Park Historic District & Location of Subject Property.*

## **PROPOSAL**

The applicants propose the following work items at the subject property:

- Repair of existing lattice between piers on front porch. Removal of inappropriate vinyl lattice from locations between front porch piers and replace with new wood lattice fabricated to match historically appropriate latticework on the western side of the porch, per attached images.
- Installation of new light fixtures on porch (3) and above door on the west elevation (1).
- Installation of new concealed electric box.

## **APPLICABLE GUIDELINES**

When reviewing alterations and new construction within the Takoma Park Historic District several documents are to be utilized as guidelines to assist the Commission in developing their decision. These documents include the historic preservation review guidelines in the approved and adopted amendment for the *Takoma Park Historic District (Guidelines)*, *Montgomery County Code Chapter 24A (Chapter 24A)*, and *the Secretary of the Interior's Standards for Rehabilitation (Standards)*. The pertinent information in these documents is outlined below.

### ***Takoma Park Historic District Guidelines***

There are two very general, broad planning and design concepts which apply to all categories. These are:

- The design review emphasis will be restricted to changes that are at all visible from the public right-of-way, irrespective of landscaping or vegetation (it is expected that the majority of new additions will be reviewed for their impact on the overall district), and
- The importance of assuring that additions and other changes to existing structures act to reinforce and continue existing streetscape, landscape, and building patterns rather than to impair the character of the historic district.

A majority of structures in the Takoma Park Historic District have been assessed as being "Contributing Resources." While these structures may not have the same level of architectural or historical significance

as Outstanding Resources or may have lost some degree of integrity, collectively, they are the basic building blocks of the Takoma Park district. However, they are more important to the overall character of the district and the streetscape due to their size, scale, and architectural character, rather than for their particular architectural features.

Contributing Resources should receive a more lenient level of design review than those structures that have been classified as Outstanding. This design review should emphasize the importance of the resource to the overall streetscape and its compatibility with existing patterns rather than focusing on a close scrutiny of architectural detailing. In general, however, changes to Contributing Resources should respect the predominant architectural style of the resource.

The *Guidelines* that pertain to this project are as follows:

- All exterior alterations, including those to architectural features and details, should be generally consistent with the predominant architectural style and period of the resource and should preserve the predominant architectural features of the resource; exact replication of existing details and features is, however, not required.
- Alterations to features that are not visible at all from the public right-of-way should be allowed as a matter of course.
- Minor alterations to areas that do not directly front on a public right-of-way such as vents, metal stovepipes, air conditioners, fences, skylights, etc. should be allowed as a matter of course.

***Montgomery County Code; Chapter 24A-8***

- (b) The commission shall instruct the director to issue a permit, or issue a permit subject to such conditions as are found to be necessary to insure conformity with the purposes and requirements of this chapter, if it finds that:
- (1) The proposal will not substantially alter the exterior features of an historic site or historic resource within an historic district; or
  - (2) The proposal is compatible in character and nature with the historical, archeological, architectural or cultural features of the historic site or the historic district in which an historic resource is located and would not be detrimental thereto or to the achievement of the purposes of this chapter; or
  - (3) The proposal would enhance or aid in the protection, preservation and public or private utilization of the historic site or historic resource located within an historic district in a manner compatible with the historical, archeological, architectural or cultural value of the historic site or historic district in which an historic resource is located; or
  - (4) The proposal is necessary in order that unsafe conditions or health hazards be remedied; or
  - (5) The proposal is necessary in order that the owner of the subject property not be deprived of reasonable use of the property or suffer undue hardship; or
  - (6) In balancing the interests of the public in preserving the historic site or historic resource located within an historic district, with the interests of the public from the use and benefit of the alternative proposal, the general public welfare is better served by granting the permit.

- (c) It is not the intent of this chapter to limit new construction, alteration or repairs to any 1 period or architectural style.

***Secretary of the Interior’s Standards for Rehabilitation:***

The Secretary of the Interior defines rehabilitation as “the act or process of making possible a compatible use for a property through repair, alterations, and additions while preserving those portions or features, which convey its historical, cultural, or architectural values.” The *Standards* are as follows:

- 2. The historic character of a property shall be retained and preserved. The removal of historic materials or alteration of features and spaces that characterize a property shall be avoided.
  
- 9. New additions, exterior alterations, or related new construction shall not destroy historic materials that characterize the property. The new work shall be differentiated from the old and shall be compatible with the massing, size, scale, and architectural features to protect the historic integrity of the property and its environment.

**STAFF DISCUSSION**

The subject property is a c.1915-1925 Craftsman Bungalow in the Takoma Park Historic District. The applicant is proposing to repair and replace latticework between the piers and stairs of the front porch, install three recessed lights in the ceiling of the front porch, install a gooseneck style light over an existing door on the west elevation, and install a recessed electric box in an obscured location of the fascia near the front porch. The repair and replacement of the latticework will repair historic materials and remove non-historic vinyl in locations that will then have new wood lattice installed. The proposed lights will all be in keeping with the style of the house. The recessed lights will not be readily visible and are a minor alteration to the front porch. The new light on the west elevation is of a style that is appropriate for the Craftsman style house and is a downward facing fixture that will minimize light pollution. The electrical box will be recessed into the fascia and covered by a recessed panel that will be colored to match the surrounding wood. These are all very minimal alterations that will not alter any historic materials and are all appropriate for this house and the surrounding district.

In accordance with *Standards #2* and *#9*, staff finds that the proposed work items will not remove or alter character-defining features of the subject property.

After full and fair consideration of the applicant’s submission staff finds the proposal as being consistent with the Criteria for Issuance in Chapter 24A-(b) 1 and 2, having found the proposal is consistent with the *Secretary of the Interior’s Standards for Rehabilitation #2* and *#9* and *Takoma Park Historic District Guidelines* outlined above.

**STAFF RECOMMENDATION**

Staff recommends that the Commission **approve** the HAWP application under the Criteria for Issuance in Chapter 24A-8(b), having found that the proposal is consistent with the *Takoma Park Historic District Guidelines* identified above, and therefore will not substantially alter the exterior features of the historic resource and is compatible in character with the district and the purposes of Chapter 24A;

and with the *Secretary of the Interior’s Standards for Rehabilitation #2* and *#9*;

and with the general condition that the applicant shall present the **3 permit sets of drawings, if applicable to Historic Preservation Commission (HPC) staff for review and stamping** prior to submission for the Montgomery County Department of Permitting Services (DPS) building permits;

and with the general condition that final project design details, not specifically delineated by the Commission, shall be approved by HPC staff or brought back to the Commission as a revised HAWP application at staff's discretion;

and with the general condition that the applicant shall notify the Historic Preservation Staff if they propose to make **any alterations** to the approved plans. Once the work is completed the applicant will contact the staff person assigned to this application at 301-563-3400 or michael.kyne@montgomeryplanning.org to schedule a follow-up site visit.



HISTORIC PRESERVATION COMMISSION  
301/563-3400

# APPLICATION FOR HISTORIC AREA WORK PERMIT

Contact Email: miki.matsuura39@gmail.com Contact Person: Ms. Miki Matsuura  
Daytime Phone No.: (202) 714-4611

Tax Account No.: \_\_\_\_\_  
Name of Property Owner: Ms. Miki Matsuura Daytime Phone No.: (202) 714-4611  
Address: 7210 Takoma Park Spruce Avenue 20912  
Street Number City State Zip Code

Contractor: \_\_\_\_\_ Phone No.: \_\_\_\_\_  
Contractor Registration No.: \_\_\_\_\_  
Agent for Owner: \_\_\_\_\_ Daytime Phone No.: \_\_\_\_\_

**LOCATION OF BUILDING/PROJECT**

House Number: 7210 Street: Spruce Avenue  
Town/City: Takoma Park (Nearest Cross Street: Tulip Avenue)  
Lot: 37 Block: 8 Subdivision: District 13  
Liber: \_\_\_\_\_ Folio: \_\_\_\_\_ Parcel: \_\_\_\_\_

422414

**PART ONE: TYPE OF PERMIT ACTION AND USE**

1A. CHECK ALL APPLICABLE:  Construct  Extend  Alter/Renovate  A/C  Slab  Room Addition  Porch  Deck  Shed  
 Move  Install  Wreck/Raze  Solar  Fireplace  Woodburning Stove  Single Family  
 Revision  Repair  Revocable  Fence/Wall (complete Section 4)  Other: \_\_\_\_\_

1B. Construction cost estimate: \$ Unknown

1C. If this is a revision of a previously approved active permit, see Permit # \_\_\_\_\_

**PART TWO: COMPLETE FOR NEW CONSTRUCTION AND EXTENS/ADDITIONS**

2A. Type of sewage disposal: 01  WSSC 02  Septic 03  Other: \_\_\_\_\_  
2B. Type of water supply: 01  WSSC 02  Well 03  Other: \_\_\_\_\_

**PART THREE: COMPLETE ONLY FOR FENCE/RETAINING WALL**

3A. Height \_\_\_\_\_ feet \_\_\_\_\_ inches  
3B. Indicate whether the fence or retaining wall is to be constructed on one of the following locations:  
 On party line/property line  Entirely on land of owner  On public right of way/easement

I hereby certify that I have the authority to make the foregoing application, that the application is correct, and that the construction will comply with plans approved by all agencies listed and I hereby acknowledge and accept this to be a condition for the issuance of this permit.

[Signature] June 22, 2018  
Signature of owner or authorized agent Date

Approved: \_\_\_\_\_ For Chairperson, Historic Preservation Commission  
Disapproved: \_\_\_\_\_ Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Application/Permit No.: \_\_\_\_\_ Date Filed: \_\_\_\_\_ Date Issued: \_\_\_\_\_

**SEE REVERSE SIDE FOR INSTRUCTIONS**

Cover D  
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**THE FOLLOWING ITEMS MUST BE COMPLETED AND THE  
REQUIRED DOCUMENTS MUST ACCOMPANY THIS APPLICATION.**

**1. WRITTEN DESCRIPTION OF PROJECT**

- a. Description of existing structure(s) and environmental setting, including their historical features and significance:

See attached documents.

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- b. General description of project and its effect on the historic resource(s), the environmental setting, and, where applicable, the historic district:

See attached documents.

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**2. SITE PLAN**

Site and environmental setting, drawn to scale. You may use your plot. Your site plan must include:

- a. the scale, north arrow, and date;
- b. dimensions of all existing and proposed structures; and
- c. site features such as walkways, driveways, fences, ponds, streams, trash dumpsters, mechanical equipment, and landscaping.

**3. PLANS AND ELEVATIONS**

You must submit 2 copies of plans and elevations in a format no larger than 11" x 17". Plans on 8 1/2" x 11" paper are preferred.

- a. Schematic construction plans, with marked dimensions, indicating location, size and general type of walls, window and door openings, and other fixed features of both the existing resource(s) and the proposed work.
- b. Elevations (facades), with marked dimensions, clearly indicating proposed work in relation to existing construction and, when appropriate, context. All materials and fixtures proposed for the exterior must be noted on the elevations drawings. An existing and a proposed elevation drawing of each facade affected by the proposed work is required.

**4. MATERIALS SPECIFICATIONS**

General description of materials and manufactured items proposed for incorporation in the work of the project. This information may be included on your design drawings.

**5. PHOTOGRAPHS**

- a. Clearly labeled photographic prints of each facade of existing resource, including details of the affected portions. All labels should be placed on the front of photographs.
- b. Clearly label photographic prints of the resource as viewed from the public right-of-way and of the adjoining properties. All labels should be placed on the front of photographs.

**6. TREE SURVEY**

If you are proposing construction adjacent to or within the dripline of any tree 6" or larger in diameter (at approximately 4 feet above the ground), you must file an accurate tree survey identifying the size, location, and species of each tree of at least that dimension.

**7. ADDRESSES OF ADJACENT AND CONFRONTING PROPERTY OWNERS**

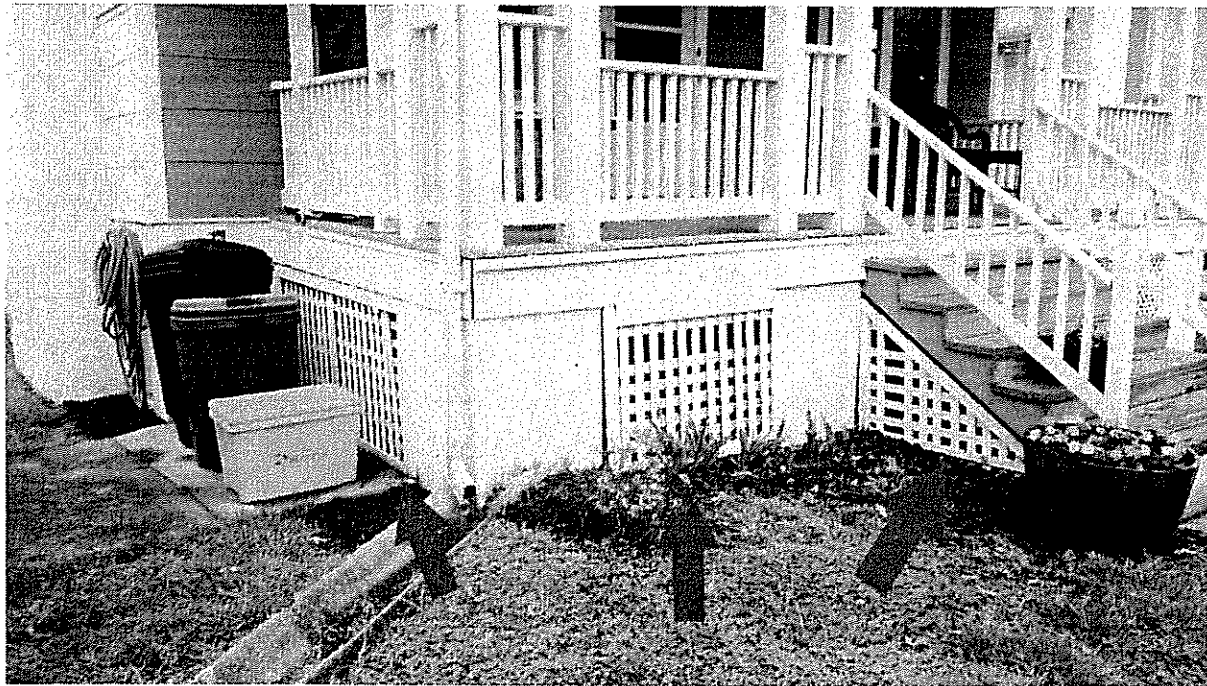
For ALL projects, provide an accurate list of adjacent and confronting property owners (not tenants), including names, addresses, and zip codes. This list should include the owners of all lots or parcels which adjoin the parcel in question, as well as the owner(s) of lot(s) or parcel(s) which lie directly across the street/highway from the parcel in question.

PLEASE PRINT (IN BLUE OR BLACK INK) OR TYPE THIS INFORMATION ON THE FOLLOWING PAGE.  
PLEASE STAY WITHIN THE GUIDES OF THE TEMPLATE, AS THIS WILL BE PHOTOCOPIED DIRECTLY ONTO MAILING LABELS.

Existing Property Condition Photographs (duplicate as needed)

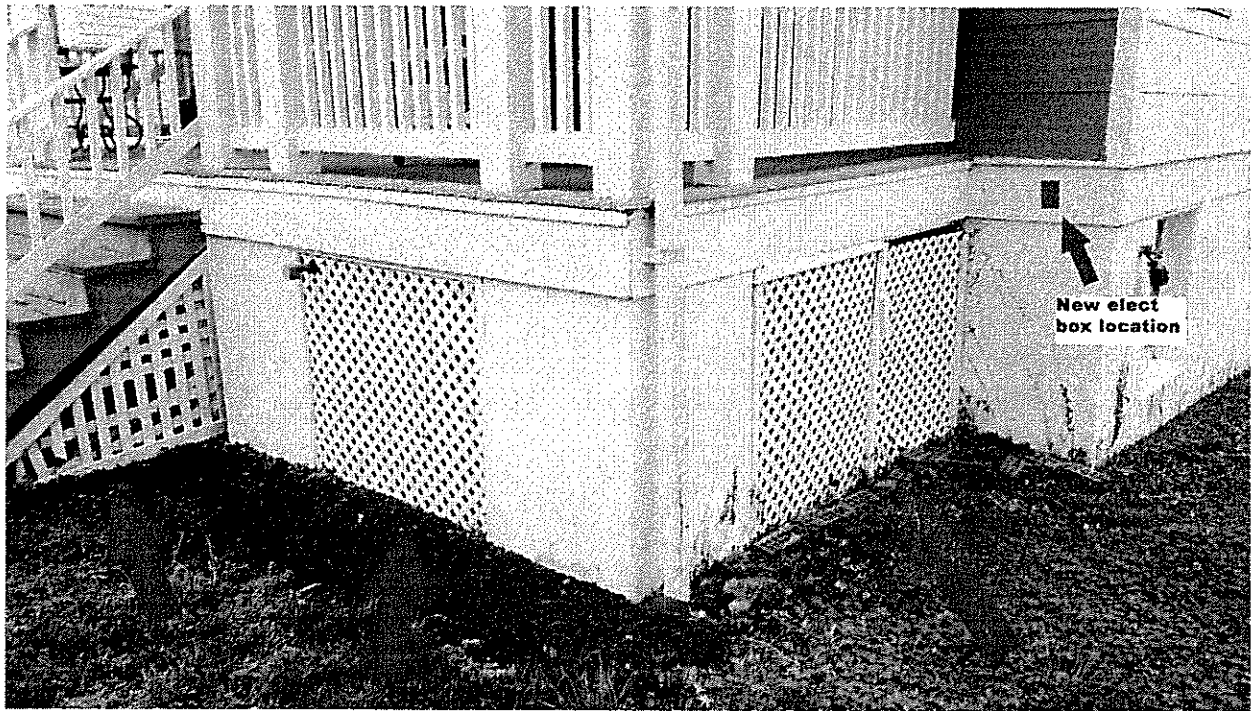


Detail: **Figure 1.** Front of house showing trellis / lattice work referenced in this document.

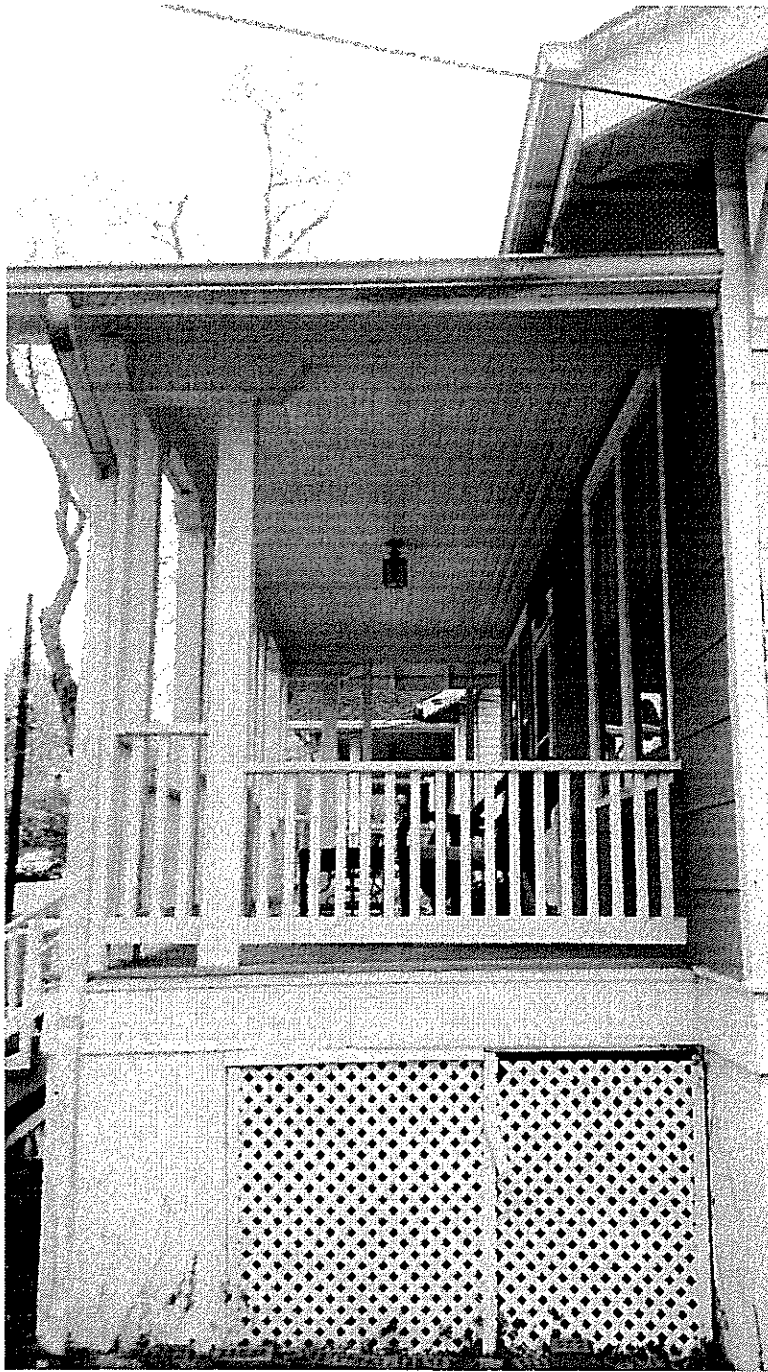


Detail: **Figure 2.** Original trellis / lattice on west side to be used as template and replaced. Note that there are vertical and horizontal bars missing due to deterioration rather than design.

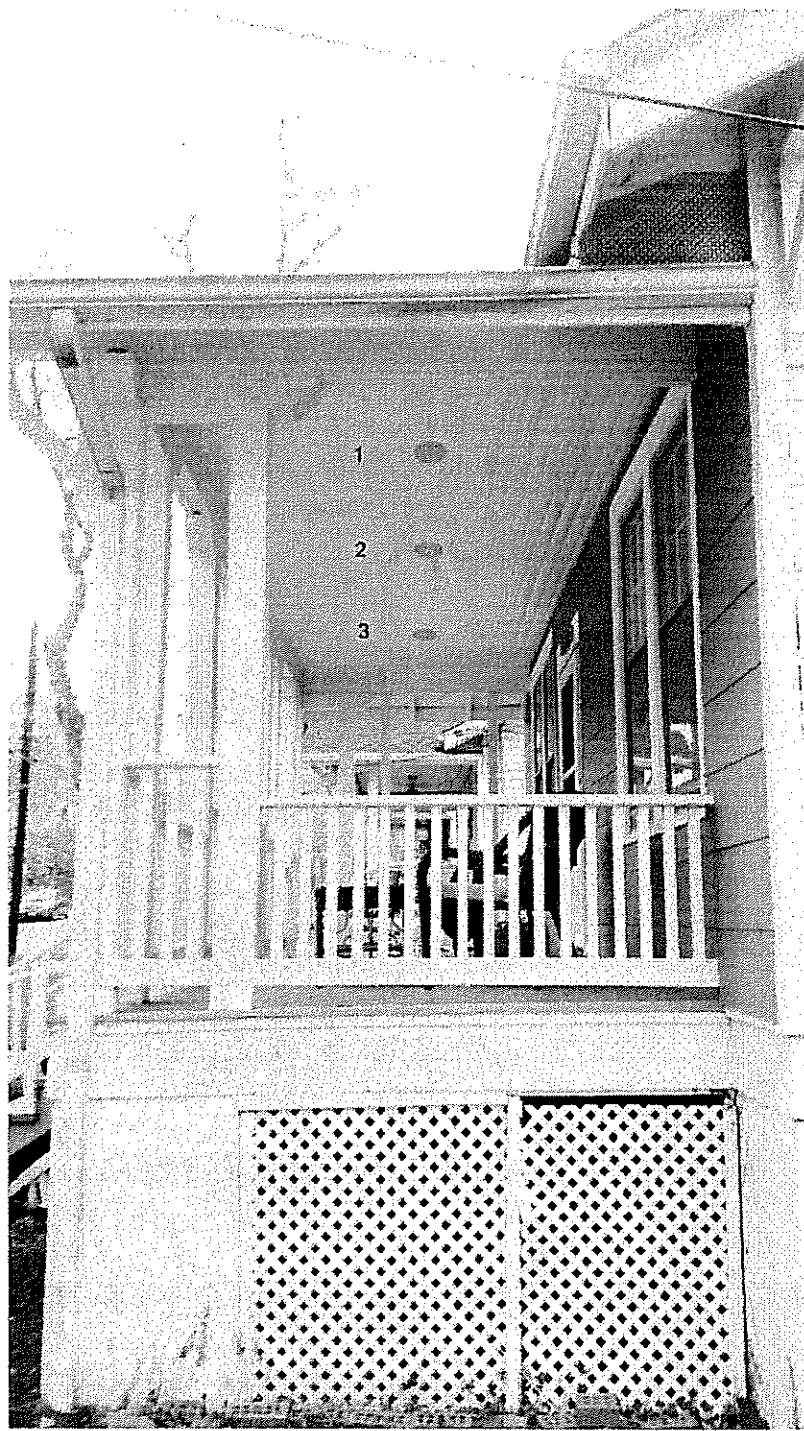




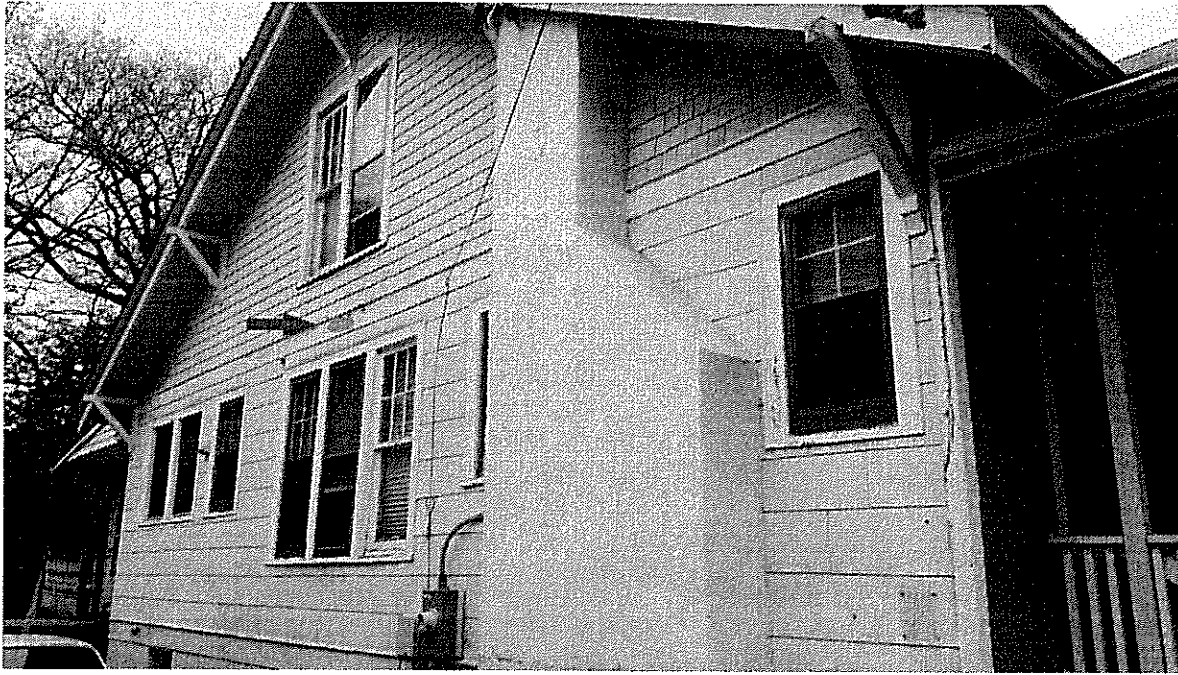
Detail: **Figure 3.** East side trellis / lattice to be changed; location of new outdoor electric box.



Detail: **Figure 4.** Existing porch lighting as viewed close up from east side.



Detail: **Figure 5.** Location of 3 new recessed lighting fixtures shown.



**Detail: Figure 6.** Location of exterior lighting fixture to be installed (west side of house)

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**1. Written description of the project**

**a. Description of existing structure(s) and environmental setting, including their historical features and significance**

Craftsman bungalow in Takoma Park Historic District with deteriorating exterior trim features in need of repair, replacement, and/or preservation.

**b. General description of project and its effect on historic resource(s), environmental setting, and where applicable, the historic district.**

The project includes a number of minor repairs and updates:

1. Replace trellis / lattice work around front porch on eastern side of house. **See Figure 1.** The current trellis lattice work on the eastern side is of low cost builders grade vinyl trellis with a diagonal pattern and not of original design, materials, or period correct appearance; **See Figure 3.** The western side of the house contains original trellis / lattice work (deteriorating; will be used as a template and replaced) with period correct horizontal and vertical gridding that will be used as a template for fabricating replacement pieces from wood for the eastern side; **See Figure 2.** Replacement of the east side trellis / lattice will restore the home to its original and/or period correct appearance and enhance the value of the home as a historic resource.

2. Update and add above grade exterior electrical fixtures:

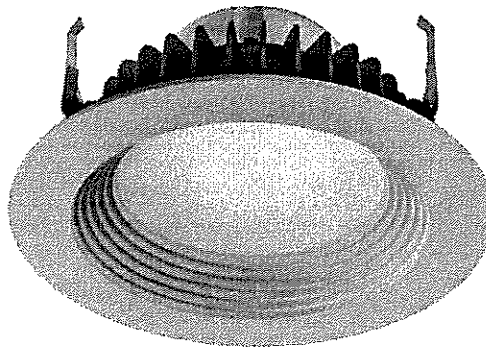
- a. Install an exterior light to the western side of the house to improve nighttime safety and security in the driveway (see indicated location on **Figure 6**). The fixture will be of small form factor to blend with existing trim. A small hole will be drilled in the trim board for electrical wiring to pass through. The fixture will be mounted to the trim board with screws. No structural changes to exterior or significant alteration of the historic features of the house will be involved. See attached image of fixture with dimensions at end of document.
- b. Install three recessed lighting fixtures in the ceiling of the front porch to improve nighttime safety and security of porch area and yard. These fixtures have the benefit of projecting useful yet non-obtrusive halos of light in needed areas in a manner which will not affect abutters enjoyment of nighttime darkness and the nocturnal environment. The recessed lighting fixtures are not clearly visible from the sidewalk view of the home, and only become visible upon walkup to the porch. Three holes (~ 4-6 inch diameter) will be drilled in the ceiling wood of the porch to allow installation of fixtures; **See Figure 5**. For existing porch lighting arrangement see **Figure 4**. No structural changes to exterior or significant alteration of the historic features of the house will be involved. See attached image of fixture with dimensions at end of document.
- c. Install a single-gang outdoor electrical outlet to the home front of the home as indicated in **Figure 3** for utility purposes. This outlet will be fitted with an outdoor cover which is colored so as to blend in with the existing paint scheme and is sized so as to be non-obtrusive. A small hole will be drilled in the siding for electrical wiring to pass through. The fixture will be mounted to the trim board with screws. No major structural changes to exterior or significant alteration of the historic features of the house will be involved.

# PHILIPS LIGHTOLIER

## Downlighting

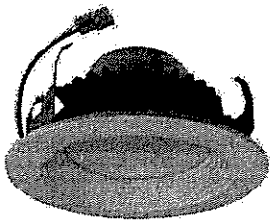
### CorePro LED

Attractive, affordable, and easy to install 5" downlight.



Project: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Cat. No: \_\_\_\_\_  
 Type: \_\_\_\_\_  
 Lamps: \_\_\_\_\_ Qty: \_\_\_\_\_  
 Notes: \_\_\_\_\_

Core value LED downlight for new construction and remodel applications that installs in many existing residential and commercial applications.



### Ordering guide

example: CP5RB07830W

Catalog Number	Aperture	CRI	CCT	Lumens	System Watts (Max)	Efficacy (lm/W)	Voltage
CP5RB08830W	5-inch	80	3000K	950lm	13	73	120
CP5RB08830W	5-inch	90	3000K	800lm	13	69	120
CP5RB08840W	5-inch	80	4000K	1000lm	13	77	120

### Features

- Reflector/Flange:** One piece self flange cast aluminum, powder coated, non yellowing, white baffle and flange.
- Lens:** High transmittance lens allowing for smooth, diffused light pattern.
- Power supply:** Class 2 driver. Factory wired electronic LED driver (see Electrical section for specifications).
- LED board:** Light emitted source.
- Friction spring:** Stainless steel.
- Power connection:** Trim features quick connect plug installed as standard installation into CP5RN and CP5RR housings with mating connector. Trim ships with a medium base socket adapter whip for installation into 5" incandescent housings with medium base sockets.
- Lifetime:** Expected lifetime 50,000 hours and backed by a 5-year warranty (see Philips.com/warranties for details).

### Electrical

**Electronic power supply:** RoHS compliant\* Class 2 power unit for use in a dry and damp locations. Complies with FCC.

**Dimming:** All luminaires are intended for use with TRIAC type dimmers. Go to <http://www.lightolier.com/MKACatpdfs/LED-DIM.PDF> for the latest dimming switch capability information. 10%-100% dimming range.

Lumen Output	Input Voltage	Input Frequency	Max. Input Current	Max. Input Power	Max THD	Power Factor	Min. Temp. Operating
950lm	120V	50/60Hz	0.10A	13W	< 30%	> .9	-20° C

Performance data based on 80 CRI 3000K.

\* Restrictions on Hazardous Substances (RoHS) is a European directive (2002/95/EC) designed to limit the content of 6 substances (lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyls (PBB), and polybrominated diphenyl ethers (PBDE)) in electrical and electronic products. For products used in North America compliance to RoHS is voluntary and self-certified.

### Labels

cULus listed for wet locations. Energy Star certified.

Title 24 Certified to meet high efficiency requirements.

# CP5 CorePro LED Downlight

Attractive, affordable, and easy to install 5" downlight

## CP5RN: 5" IC/Airseal frame-in kit housing

**Housing** - Constructed of formed aluminum. For use in direct contact with thermal insulation. Adjusts vertically in plaster frame to accommodate ceilings 1/2" to 1-1/2" thick. Ceiling opening 5-1/2".

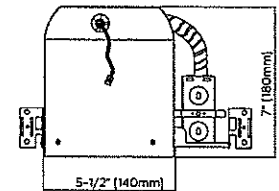
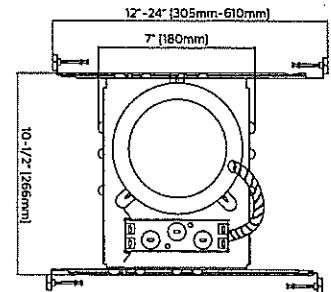
**Electrical Connection** - LED quick-connect adapter

**Junction Box**- galvanized steel with two snap-on covers and grounding pigtail. Knockouts for 1/2" & 3/4" conduit and Romex knockouts with strain relief

**Bar Hangers**: Pre-installed pre-nailed style bar hangers telescope from 16" to 24". Vertical design of interlocking bar hangers prevents sagging even at full 24" extension. Style bar hangers may be used on either long or short axis of housing.

**IC frame-in Kit** - Housing is cULus Listed for direct contact with thermal insulation cULus Listed for Damp Locations and Through Branch Wiring, 4 in/4 out.

**AirSeal™**: Fixture is AirSeal™ rated according to ASTM E283 to no more than 2.0 cubic feet of air per minute at 75 pascals. Fixture meets Washington State Energy Code and Energy Conservation Code.



## CP5RR: 5" IC/Airseal Remodeler Housing

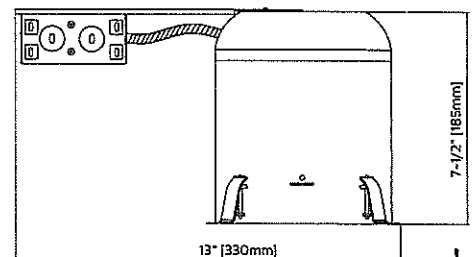
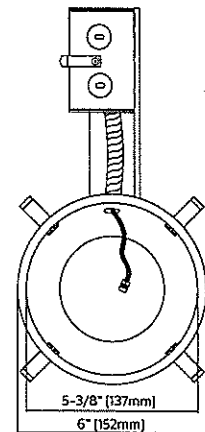
**Housing** - Constructed of formed aluminum. Adjusts vertically in plaster frame to accommodate ceilings 1/2" to 1-1/4" thick. Housing can be pulled through plaster frame for access to junction box. Ceiling opening of 5-3/8".

**Electrical Connection** - LED quick-connect adapter

**Junction Box** - galvanized steel with two snap-on covers and grounding pigtail. Knockouts for 1/2" & 3/4" conduit and Romex knockouts with strain relief

**IC Frame-in Kit** - Housing is cULus Listed for direct contact with thermal insulation cULus Listed for Damp Locations and Through Branch Wiring, 4 in/4 out.

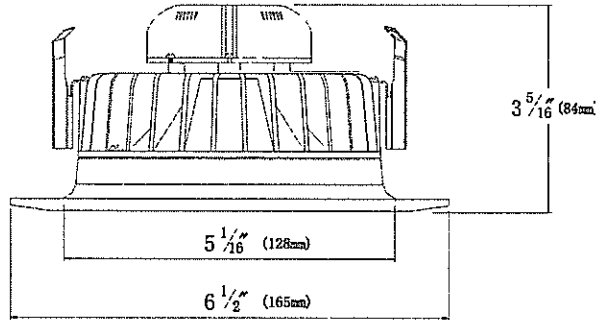
**AirSeal™**: Fixture is AirSeal™ rated according to ASTM E283 to no more than 2.0 cubic feet of air per minute at 75 pascals. Fixture meets Washington State Energy Code and Energy Conservation Code.



# CP5 CorePro LED Downlight

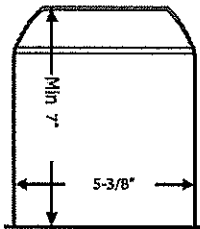
Attractive, affordable, and easy to install 5" downlight

## Dimensions

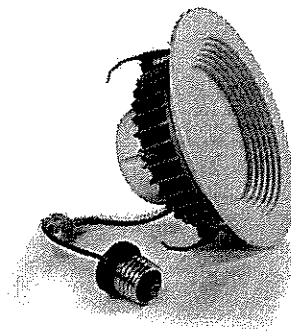
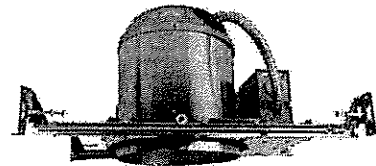


## E26 Compatibility\*

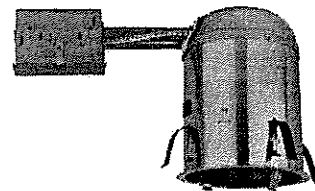
Manufacturer	Model
Philips	CP5RN
	CP5RR
	1004IC
	1004ICR
	CR5QP
	CRR5QP
Halo	H5ICAT
	H5RICAT
	H5T
	H5RT
Juno	IC20NW
	IC20N
Lithonia	L5
	L5R



CP5RN: IC c/w LED Connector  
New Construction Housing



CP5RR: IC c/w LED Connector  
Remodeler Housing



\* Any other luminaires meeting these dimensions as shown are also compatible.

5" unit shown with standard (E26) adapter to fit medium base sockets

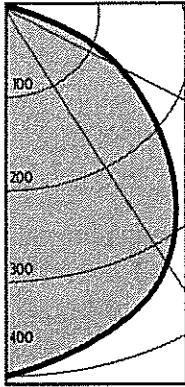


# CP5 CorePro LED Downlight

Attractive, affordable, and easy to install 5" downlight

## CP5RB08830W

Candela Curves



Angle	Mean CP	Lumens
0	402	
5	398	38
10	390	
15	377	107
20	359	
25	338	158
30	314	
35	289	184
40	261	
45	232	183
50	199	
55	163	152
60	127	
65	91	96
70	56	
75	26	34
80	9	
85	3	5
90	0	

### Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	16	6.0
6'	11	7.2
7'	8	8.4
8'	6	9.6
9'	5	10.8

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	39.6	0.55
6'	26.0	0.36
7'	18.5	0.26
8'	15.5	0.21
9'	12.4	0.17

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	110	106	102	99	104	97	100	94	96	91	87
	2	101	94	87	82	92	81	88	79	85	78	74
	3	93	83	75	69	81	69	78	68	76	66	63
	4	85	74	66	59	73	59	70	58	68	57	55
	5	79	66	58	52	65	51	63	51	61	50	48
	6	73	60	51	45	59	45	57	45	56	44	42
	7	67	55	46	40	54	40	52	40	51	40	37
	8	63	50	42	36	49	36	48	36	47	36	33
	9	59	46	38	33	45	32	44	32	43	32	30
	10	55	42	35	30	42	30	41	29	40	29	27

### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	303	31.7%
0-40	486	50.9%
0-60	821	85.9%
0-90	956	100.0%

### Adjustment factors

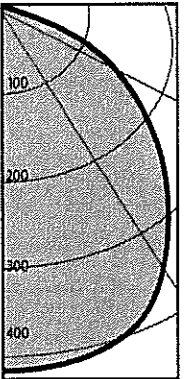
Color temperature (CCT)
4000K = 106%

Report: BTS165313

Output lumens:	956.2lms	Efficacy:	77.1lm/w
Input Watts:	12.4W	CCT:	3000K
Spacing Criterion:	1.2	CRI:	>80

## CP5RB08930W

Candela Curves



Angle	Mean CP	Lumens
0	407	
5	406	38
10	400	
15	389	108
20	372	
25	351	157
30	325	
35	295	177
40	263	
45	230	167
50	195	
55	157	128
60	120	
65	86	74
70	56	
75	30	26
80	13	
85	5	4
90	0	

### Single unit data

Height to Lighted Plane	Initial center beam foot-candles	Beam dia. (ft)*
5'	16	5.5
6'	11	6.6
7'	8	7.7
8'	6	8.8
9'	5	9.9

\* Beam diameter is where foot-candles drop to 50% of maximum.

### Multiple unit data - RCR 2

Spacing on center	Initial center beam foot-candles	Watts per sq.ft.
5'	37.0	0.54
6'	24.3	0.35
7'	17.3	0.25
8'	14.4	0.21
9'	11.6	0.17

38'x38'x10' Room, Workplane 2.5' above floor, 80/50/20% Reflectances

### Coefficients of utilization

Ceiling	80%				70%		50%		30%		0%	
Wall	70	50	30	10	50	10	50	10	50	10	0	
RCR	Zonal cavity method - Effective floor reflectance = 20%											
Room Cavity Ratio	0	119	119	119	119	116	116	111	111	106	106	100
	1	111	106	103	100	104	98	100	95	96	92	87
	2	102	95	89	84	93	83	89	81	86	79	75
	3	94	84	77	71	83	71	80	69	77	68	65
	4	86	75	67	61	74	61	72	60	69	59	57
	5	80	68	60	54	67	53	65	53	63	52	50
	6	74	62	53	47	61	47	59	47	57	46	44
	7	69	56	48	42	55	42	54	42	53	42	39
	8	64	52	44	38	51	38	50	38	48	37	35
	9	60	47	40	34	47	34	46	34	45	34	32
	10	57	44	36	31	43	31	42	31	42	31	29

### Zonal lumens & percentages

Zone	Lumens	%Luminaire
0-30	303	34.5%
0-40	480	54.6%
0-60	775	88.2%
0-90	879	100.0%

Report: BTS165314

Output lumens:	879.3 lms	Efficacy:	72.1lm/w
Input Watts:	12.2W	CCT:	3000K
Spacing Criterion:	1.1	CRI:	>90

1. Correlated Color Temperature within specs as defined in ANSI\_NEMA\_ANSLG C78.377-2008: Specifications for the Chromaticity of Solid State Lighting Products.
2. Wattage: controlled to within 5%
3. Tested using absolute photometry as specified in LM79: IESNA Approved Method for the Electrical and Photometric Measurements of Solid-State Lighting Products.

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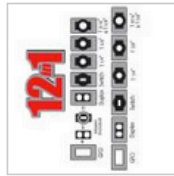
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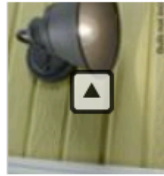


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<b>Owner's mailing address</b>  Ms. Miki Matsuura 7210 Spruce Avenue Takoma Park, MD 20912	<b>Owner's Agent's mailing address</b>  
<b>Adjacent and confronting Property Owners mailing addresses</b>	
Matthew Gorman 7208 Spruce Avenue Takoma Park, MD 20912	
Yuri Zelinsky 7212 Spruce Avenue Takoma Park, MD 20912	
Barry Mashall Pauls 7210 Willow Avenue Takoma Park, MD 20192	