



Certificate of Appropriateness For a Building Permit

Tennessee Technology Corridor Development Authority

On October 29, 2020, the Tennessee Technology Corridor Development Authority, hereinafter referred to as the Authority, did grant to Ball Homes, LLC, hereinafter referred to as the Applicant, on its application filed on September 16, 2020 with Application No. 11-A-20-TOA, this Certificate of Appropriateness for the following described property, 0 Solway Rd. / Parcel ID 103 086 and 09601. This Certificate of Appropriateness is granted to the Applicant for the purpose of a Building Permit. The Applicant agrees that it will comply with all base zoning requirements, all Technology Overlay Zone requirements, the Design Guidelines and the Comprehensive Development Plan in its use of this property, unless specifically varied or altered by the Authority.

This Certificate of Appropriateness will automatically expire three years from the date of the affirmative vote of this Certificate, unless an extension of the Certificate is granted by the Authority upon the request of the Applicant, if construction of the structure or structures on the property has not reached fifty percent (50%) of completion at the end of that three year period.

The Applicant does hereby agree that staff and/or members of the Knox County governmental entities, or the Authority, shall have access to the property at reasonable times to inspect the same for compliance with the requirements of state and local laws and this Certificate of Appropriateness.

The structure or structures to be erected on this property will be erected according to the approved and accepted plans and specifications attached to this Certificate as Attachment No. One, and any changes thereto approved and accepted by the Applicant and the Authority.

APPLICATION APPROVED October 29, 2020, pursuant to Article 5, Section 5.90.11 (Revisions to Development Plans), Knox County Zoning Ordinance, and all relevant requirements of the Design Guidelines.

By its signature hereunto, the Applicant binds itself to all terms and conditions hereof, both for itself, its heirs, and its successors in interest.

TENNESSEE TECHNOLOGY CORRIDOR DEVELOPMENT AUTHORITY

BY:

Chair

N/A (Administrative Approval)

Attested to by

Michelle Portier

Approval date: 10/29/2020

COA expiration date (3 years): 10/29/2023

Report of Staff Recommendation

Tennessee Technology Corridor Development Authority

File Number: 11-A-20-TOA

Applicant: BALL HOMES, LLC

Request: BUILDING PERMIT

Meeting Date: 11/9/2020

Address: 0 Solway Rd.

Map/Parcel Number: 103 086 AND 09601

Location: East side of Solway Road across from Sam Lee Road

Existing Zoning: OB (Office Medical and Related Services) / TO (Technology Overlay)

Proposed Zoning: N/A

Existing Land Use: Vacant

Proposed Land Use: Multifamily Apartments and Townhomes

Appx. Size of Tract: 40.86 acres

Accessibility: Solway Road transitions from a major collector to a minor collector in front of this property. It has a pavement width of 21 feet and a right-of-way width that varies from 50 to 55 feet.

Surrounding Zoning and Land Uses:

North: BP (Business Park) and TO (Technology Overlay) - Office

South: BP (Business Park) and TO (Technology Overlay) - Office

East: BP (Business Park) and TO (Technology Overlay) - Pellissippi Parkway

West: A (Agricultural), BP (Business Park), OB (Office, Medical, and Related Services), and TO (Technology Overlay) - Business, vacant land and multifamily residential

Comments: This is a request for an administrative approval of the lighting plan for Solway Apartments. The development plan for Phases I and II of the apartments was approved by the TTCDA in July 2020 (Case # 6-B-20-TOB). The plans were approved under the condition that a lighting plan be submitted for administrative approval by staff at a future date.

The site contains a greenway easement for a future proposed greenway that runs along the front of the property, terminating just short of AYSO soccer fields. There are no internal sidewalks along the entry road, so pedestrians would presumably walk in the street. However, there are no street lights proposed along the entry. The TTCDA Guidelines do not require lighting along interior roads, so staff can recommend street lights, but cannot require them. Roadway lighting was recommended but not proposed.

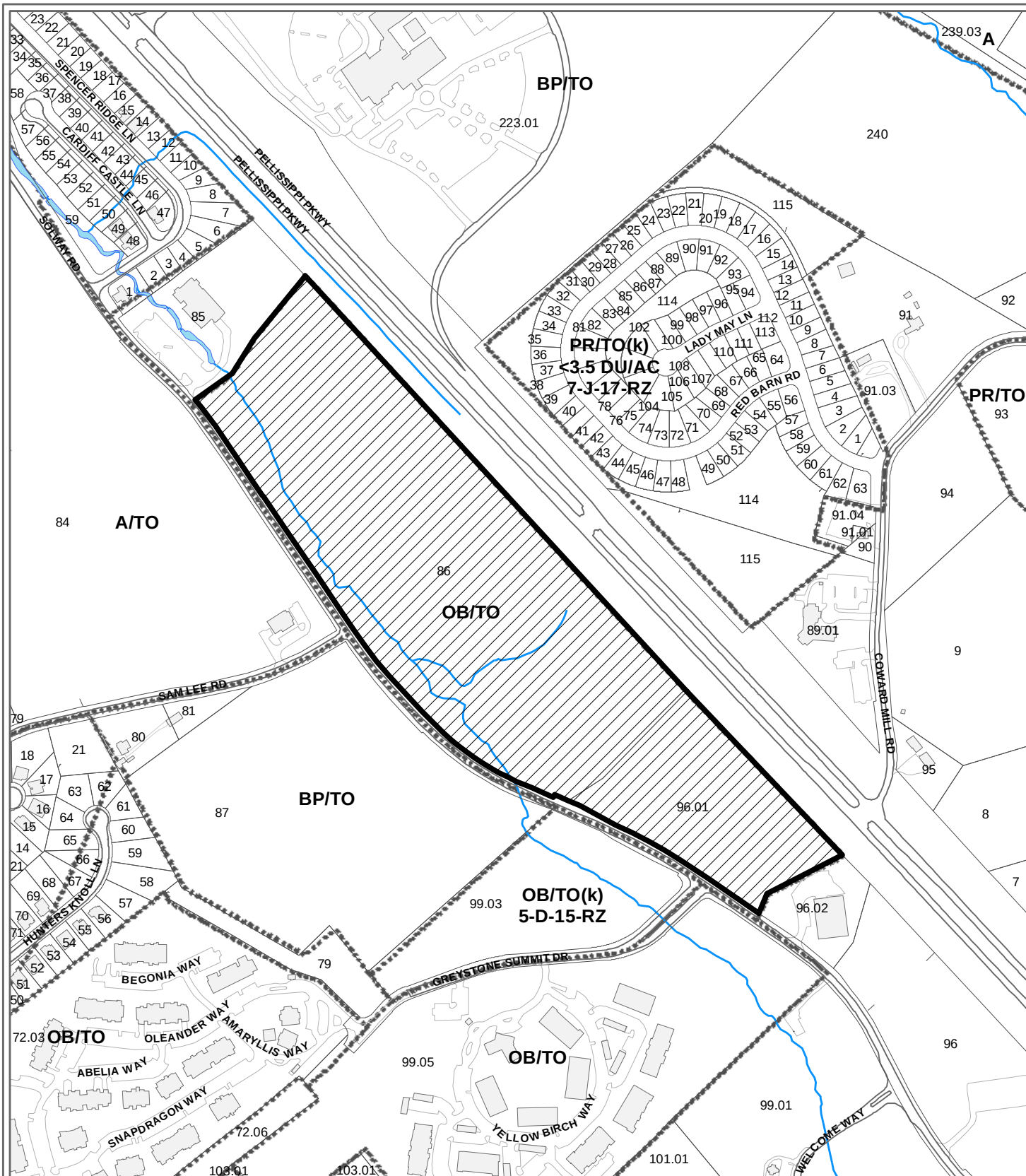
The proposal includes building lights on the apartment buildings of Phase I and on the clubhouse, lighting on the parking structures of Phase I, and a light pole near the dumpster. All lighting meets the TTCDA Guidelines. All are full cutoff fixtures, the foot candle measurements are beneath the maximum levels allowed, and the pole is below the maximum height allowed and is a muted color. Phase II lighting will be need to be evaluated separately at a future time.

Design Guideline Conformity: This request is in compliance with TTCDA Guidelines.

Waivers and Variances N/A
Requested:

Staff Recommendation:

The plans meet TTCDA Guidelines. Staff recommends approval of the Phase I lighting plans with the following conditions:
1) Meeting all relevant requirements of the Knox County zoning ordinance.





T E C Consulting Engineers, P.C.

293 E. Hirsch Woods Ln.

Haubstadt, In 47639

812-457-6778

teccengineering@gmail.com

October 22, 2020

Michelle Portier, AICP
Knoxville-Knox County Planning
400 Main St, Suite 403
Knoxville, TN 37902

Members of Knoxville-Knox County Planning:

Attached are revised plans and specification sheets for site lighting at Solway Apts, 0 Solway Road (#11-A-20-TOA). You will now find the file number listed on all plan sheets, specification sheets with images for light fixture selections, and an indication on SU1.2 of the color and finish of the pole for fixture F3. Lighting levels have been reduced to meet the required standards by substituting lower-wattage fixtures for F1 and F3.

Thank you,

Anthony D. Wilson, P.E.
T.E.C. Consulting Engineers, P.C.

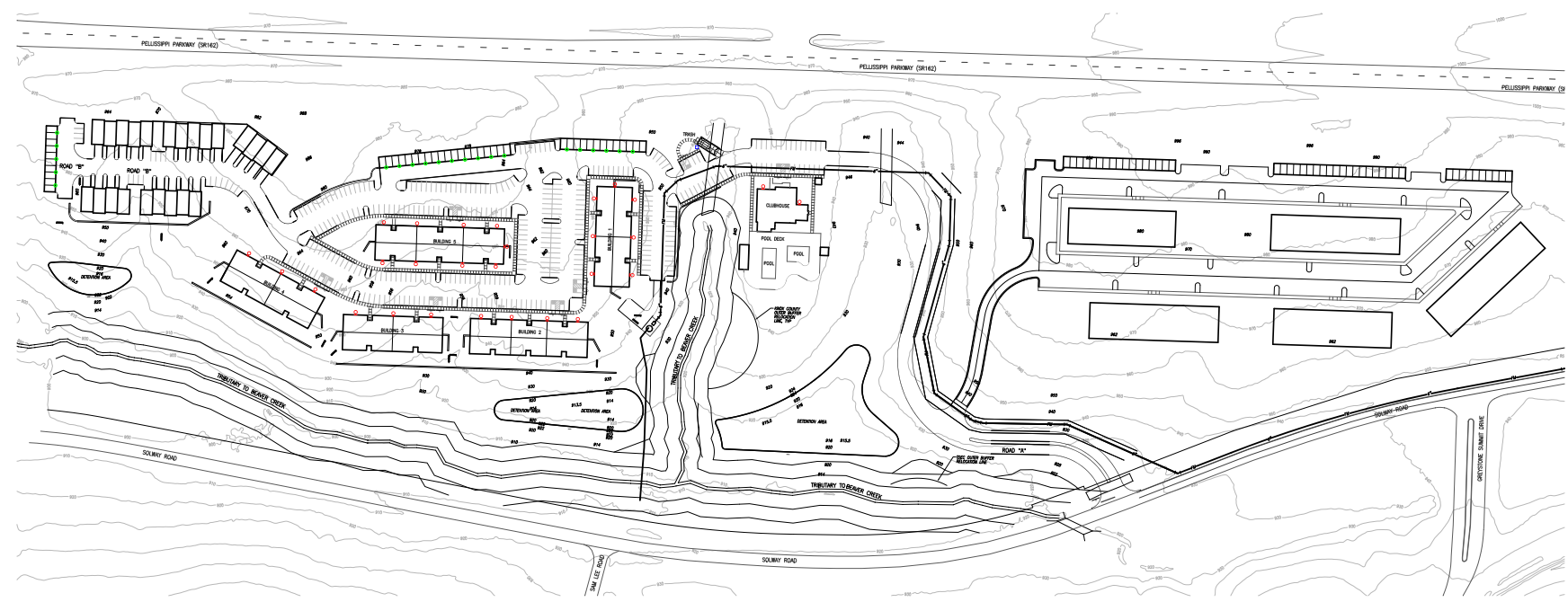
No.	Description	Date

APPROVED BY
TENNESSEE TECHNOLOGY CORRIDOR
DEVELOPMENT AUTHORITY
Meeting Date: 10/29/2020
(Administrative Approval)

KNOX PLANNING FILE #11-A-20-TOA

LIGHT FIXTURE SCHEDULE

- F1 - LITHONIA WPX2 LED P2 40K MVOLT. MOUNT AT 20'-0" ABOVE GRADE.
- F2 - LITHONIA WF6 LED 30K40K50K. MOUNT IN SOFFITS, APPROX. 9'-6" ABOVE GRADE.
- F3 - LITHONIA RSX1 LED P2 40K R2. MOUNT ATOP 15' POLE.



1 LIGHTING SITE PLAN
1/8" = 1'-0"

LIGHT FIXTURE SCHEDULE

- F1 - LITHONIA WPX2 LED 40K MVOLT. MOUNT AT 20'-0" ABOVE GRADE. 48W.
- F2 - LITHONIA WF6 LED 30K40K50K. MOUNT IN SOFFITS, APPROX. 9'-6" ABOVE GRADE. 13W.
- F3 - LITHONIA RSX1 LED P2 40K R5. MOUNT ATOP 15' DARK BRONZE POLE. 73W.



1 LIGHTING PHOTOMETRIC SITE PLAN
1" = 5'-0"

REVISED	BY

T E C Consulting Engineers, P.C.
232 E. Main Woods Ln.
Knoxville, TN 37919
812-457-9776
tecengineering@gmail.com

LIGHTING PHOTOETRIC SITE PLAN

APPROVED BY:
TENNESSEE TECHNOLOGY CORRIDOR
DEVELOPMENT AUTHORITY
Meeting Date: 10/29/2020
(Administrative Approval)

DESIGN
AJW
CHECKED
A.D.W.
DATE
October 22, 2020
SCALE
AS SHOWN
COPYRIGHT 2020 TEC CONSULTING ENGINEERS, P.C.
SHEET

SU1.2

KNOX PLANNING FILE #11-A-20-TOA



WPX LED Wall Packs

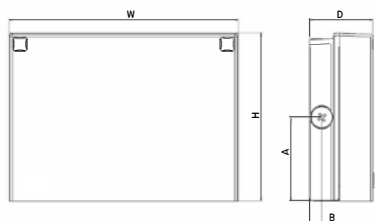


APPROVED BY
TENNESSEE TECHNOLOGY CORRIDOR
DEVELOPMENT AUTHORITY
Meeting Date: 10/29/2020
(Administrative Approval)

[Signature]

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications



Front View

Side View

Luminaire	Height (H)	Width (W)	Depth (D)	Side Conduit Location		Weight
				A	B	
WPX1	8.1" (20.6 cm)	11.1" (28.3 cm)	3.2" (8.1 cm)	4.0" (10.3 cm)	0.6" (1.6 cm)	6.1 lbs (2.8kg)
WPX2	9.1" (23.1 cm)	12.3" (31.1 cm)	4.1" (10.5 cm)	4.5" (11.5 cm)	0.7" (1.7 cm)	8.2 lbs (3.7kg)
WPX3	9.5" (24.1 cm)	13.0" (33.0 cm)	5.5" (13.7 cm)	4.7" (12.0 cm)	0.7" (1.7 cm)	11.0 lbs (5.0kg)

Introduction

The WPX LED wall packs are energy-efficient, cost-effective, and aesthetically appealing solutions for both HID wall pack replacement and new construction opportunities. Available in three sizes, the WPX family delivers 1,550 to 9,200 lumens with a wide, uniform distribution.

The WPX full cut-off solutions fully cover the footprint of the HID glass wall packs that they replace, providing a neat installation and an upgraded appearance. Reliable IP66 construction and excellent LED lumen maintenance ensure a long service life. Photocell and emergency egress battery options make WPX ideal for every wall mounted lighting application.

Ordering Information

EXAMPLE: WPX2 LED 40K MVOLT DDBXD

Series	Color Temperature	Voltage	Options	Finish
WPX1 LED P1	1,550 Lumens, 11W ¹	30K 3000K	MVOLT 120V - 277V	(blank) None
WPX1 LED P2	2,900 Lumens, 24W	40K 4000K	347 347V ³	E4WH Emergency battery backup, CEC compliant (4W, 0°C min) ²
WPX2 LED	6,000 Lumens, 47W	50K 5000K	E14WC Emergency battery backup, CEC compliant (14W, -20°C min) ²	DBBXD Dark bronze
WPX3 LED	9,200 Lumens, 69W		PE Photocell ³	DWHXD White
				DBLXD Black
				Note: For other options, consult factory.

Note: The lumen output and input power shown in the ordering tree are average representations of all configuration options. Specific values are available on request.

NOTES

- All WPX wall packs come with 6kV surge protection standard, except WPX1 LED P1 package which comes with 2.5kV surge protection standard. Add SPD6KV option to get WPX1 LED P1 with 6kV surge protection.
Sample nomenclature: WPX1 LED P1 40K MVOLT SPD6KV DDBXD
- Battery pack options only available on WPX1 and WPX2.
- Battery pack options not available with 347V and PE options.

FEATURES & SPECIFICATIONS

INTENDED USE

The WPX LED wall packs are designed to provide a cost-effective, energy-efficient solution for the one-for-one replacement of existing HID wall packs. The WPX1, WPX2 and WPX3 are ideal for replacing up to 150W, 250W, and 400W HID luminaires respectively. WPX luminaires deliver a uniform, wide distribution.

CONSTRUCTION

WPX feature a die-cast aluminum main body with optimal thermal management that both enhances LED efficacy and extends component life. The luminaires are IP66 rated, and sealed against moisture or environmental contaminants.

ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs and LED lumen maintenance of L90/100,000 hours. Color temperature (CCT) options of 3000K, 4000K and 5000K with minimum CRI of 70. Electronic drivers ensure system power factor >90% and THD <20%. All luminaires have 6kV surge protection (Note: WPX1 LED P1 package comes with a standard surge protection rating of 2.5kV. It can be ordered with an optional 6kV surge protection).

All photocell (PE) operate on MVOLT (120V - 277V) input.

Note: The standard WPX LED wall pack luminaires come with field-adjustable drive current feature. This feature allows tuning the output current of the LED drivers to adjust the lumen output (to dim the luminaire).

INSTALLATION

WPX can be mounted directly over a standard electrical junction box. Three 1/2 inch conduit ports on three sides allow for surface conduit wiring. A port on the back surface allows poke-through conduit wiring on surfaces that don't have an electrical junction box. Wiring can be made in the integral wiring compartment in all cases. WPX is only recommended for installations with LEDs facing downwards.

LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. IP66 Rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified. International Dark Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only.

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

Note: Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25°C. Specifications subject to change without notice.



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
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WPX LED
Rev. 09/29/20

Performance Data

Electrical Load

Luminaire	Input Power (W)	120V	208V	240V	277V	347V
WPX1 LED P1	11W	0.09	0.05	0.05	0.04	0.03
WPX1 LED P2	24W	0.20	0.12	0.10	0.09	0.07
WPX2	47W	0.39	0.23	0.20	0.17	0.14
WPX3	69W	0.58	0.33	0.29	0.25	0.20

Projected LED Lumen Maintenance

Data references the extrapolated performance projections in a 25°C ambient, based on 6,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.94	>0.92	>0.90

Lumen Output

Luminaire	Color Temperature	Lumen Output
WPX1 LED P1	3000K	1,537
	4000K	1,568
	5000K	1,602
WPX1 LED P2	3000K	2,748
	4000K	2,912
	5000K	2,954
WPX2	3000K	5,719
	4000K	5,896
	5000K	6,201
WPX3	3000K	8,984
	4000K	9,269
	5000K	9,393

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97

HID Replacement Guide

Luminaire	Equivalent HID Lamp	WPX Input Power
WPX1 LED P1	100W	11W
WPX1 LED P2	150W	24W
WPX2	250W	47W
WPX3	400W	69W

Emergency Egress Battery Packs

The emergency battery backup is integral to the luminaire — no external housing or back box is required. The emergency battery will power the luminaire for a minimum duration of 90 minutes and deliver minimum initial output of 550 lumens. Both battery pack options are CEC compliant.

Battery Type	Minimum Temperature Rating	Power (Watts)	Controls Option	Ordering Example
Standard	0°C	4W	E4WH	WPX2 LED 40K MVOLT E4WH DDBXD
Cold Weather	-20°C	14W	E14WC	WPX2 LED 40K MVOLT E14WC DDBXD

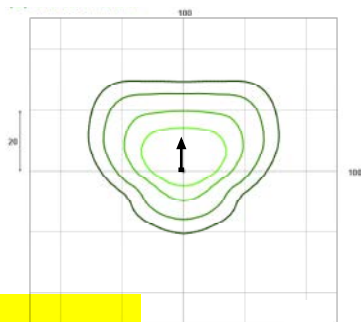
Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting [WPX LED](#) homepage. Tested in accordance with IESNA LM-79 and LM-80 standards

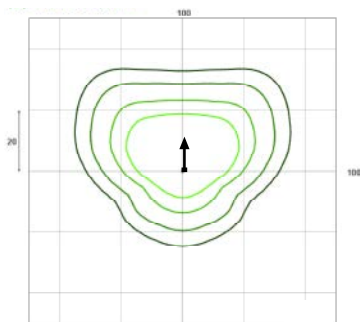
LEGEND

0.1 fc
0.2 fc
0.5 fc
1.0 fc

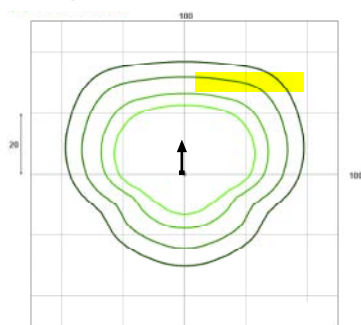
WPX1 LED P1



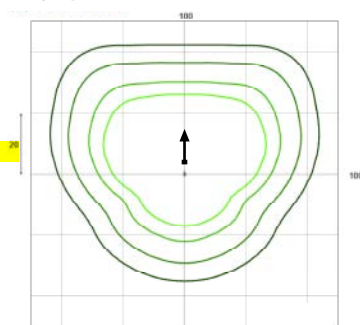
WPX1 LED P2



WPX2 LED



WPX3 LED



Mounting Height = 12 Feet.

FEATURES & SPECIFICATIONS

INTENDED USE — The 6" Wafer™ LED Downlight with Switchable White provides high-quality light output and efficiency featuring a switch for easy color temperature adjustment - while eliminating the need for recessed housings. The innovative, slim design allows for easy retrofit, remodel or new construction installation from below the ceiling. The LED module maintains at least 70% light output for 50,000 hours. The Wafer LED downlight is wet location listed – making it ideal for use in a breadth of outdoor residential, hospitality, commercial and multifamily applications.

CONSTRUCTION — Aluminum die cast outer frame. Durable, powder coat paint to prevent rust. FT4 plenum rated cable connector to connect from module to remote driver box. IC rated driver with convenience and value of two remote selectable color temperature options, each with a setting choice to choose either 2700K, 3000K, and 3500K or 3000K, 4000K, and 5000K using the switch. The isolated driver integrated inside steel remote box with four 7/8" knockouts with slots for pryout. Suitable for pulling wires with the 12 cubic-inch wiring compartment to accommodate up to (6) 14 gauge insulated conductors; making the Wafer LED Downlights much easier to wire in 2in/2out (plus ground) daisy-chain applications and contractor friendly.

PATENT PENDING.

INSTALLATION — Ideal for shallow ceiling plenum; no housing required. Steel spring clip for easy installation. 6" cut out template is provided to ensure a correct sized hole is cut into ceiling for proper installation of the trim. Size of hole should not exceed 6 1/4 inches for this product. Suitable for installation in t-grid and drop ceiling applications. 2" plenum space required for installation of the remote driver box.

OPTICS — Edge-lit LED technology uses light guided plate to distribute light. Polycarbonate lens provides even illumination throughout the space.

ELECTRICAL — Connect directly to 120V Class-2 (CAN ICES-005 (B) / NMB-005 (B)) LED driver. High efficient driver with power factor > 0.9. Ambient operating temperature: -40°F (-40°C) to +104°F (+40°C). Dimming down to 10% with most standard incandescent dimers (see list of approved dimmers). Replaces 75W incandescent for 850L and 100W incandescent for 1150 lumens.

LISTINGS — CSA certified to US and Canadian safety standards. ENERGY STAR® certified product. Wet location. Air Tight certified in accordance with ASTM E283-2004. NOM Certified. Can be used to comply with California Title 24 Part 6 High Efficacy LED light Source Requirements.

WARRANTY — 5-year limited warranty. Complete warranty terms located at:

www.acuitybrands.com/support/customer-support/terms-and-conditions

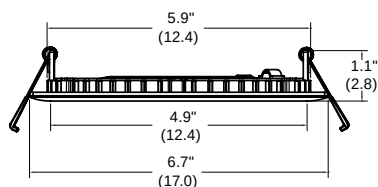
Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

Specifications

Aperture:	4.9 (12.4)
Ceiling opening:	6 (15.2)
Overlap trim:	6.7 (17)
Height:	1.1 (2.8)



All dimensions are inches (centimeters) unless otherwise indicated.

Catalog Number
Notes
Type

Wafer LED Recessed Downlight

WF6

6" LED Switchable White Color Temperature

IC/Non-IC

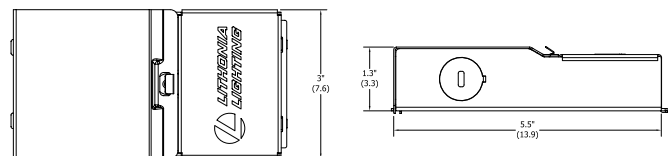
New Construction/Remodel



Matte black

Brushed nickel

Oil-rubbed bronze



ORDERING INFORMATION

For shortest lead times, configure product using **standard options (shown in bold)**.

Example: WF6 LED 30K40K50K 90CRI MW

WF6				
Series	Lamp	CCT/W/Lumens ¹	CRI	Finish
WF6 6" wafer-thin LED downlight	LL LED Low Lumen	27K30K35K 2700K/10W/830L 3000K/10W/900L 3500K/10W/860L	90CRI 90CRI	MW Matte White MB Matte Black BN Brush Nickel ORB Oil Rubbed Bronze
		30K40K50K 3000K/10W/850L 4000K/10W/920L 5000K/10W/880L		
	LED LED	27K30K35K 2700K/14W/1040L 3000K/14W/1150L 3500K/14W/1110L		
		30K40K50K 3000K/14W/1090L 4000K/14W/1190L 5000K/14W/1120L		

Accessories: Order as separate catalog number.

WF8643 Pan U	Universal new construction pan
WFJB U	Remodel joist bar
WFEXC6 SW3PIN FT4	3-Pin 6ft Cable
WFEXC10 SW3PIN FT4	3-Pin 10ft Cable
WFEXC20 SW3PIN FT4	3-Pin 20ft Cable
WF6GR MW JZ	6" round oversized trim ring



Notes

1 Total system delivered lumens.

WF6 Switchable White 6" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire													
WF6 LED 27K30K35K, 2700K LEDs, input watts: 14, delivered lumens: 1074, LM/W=77, test no. ISF 36826P7																	
				pf	80%			20%			50%						
	Ave	Lumens	Zone	Lumens	% Lamp	pc	50%	30%	10%	50%	30%	10%	50%	30%	10%		
						pw											
	0	387	0° - 30°	299.1	27.8	0	119	119	119	116	116	116	111	111	111		
	5	387	0° - 40°	485.9	45.2	1	104	99	96	101	98	94	97	94	91		
	15	372	0° - 60°	844.8	78.7	2	90	84	78	88	82	77	85	80	75		
	25	342	0° - 90°	1074.0	100.0	3	79	71	65	78	70	64	75	68	63		
	35	299	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54		
	45	246	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46		
	55	189	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41		
	65	130	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36		
	75	73	0° - 180°	1074.0	*100.0	8	47	38	33	46	38	32	45	38	32		
85	21			*Efficiency	9	43	35	29	43	35	29	41	34	29			
90	0				10	40	32	27	39	32	27	38	31	26			
										50% beam - 63.5° 10% beam - 108.5°							
										Initial FC							
										Mounting Height	Center Beam	Diameter	FC	Diameter	FC		
										8.0	12.8	6.8	6.4	15.3	1.3		
										10.0	6.9	9.3	3.4	20.8	0.7		
										12.0	4.3	11.7	2.1	26.4	0.4		
										14.0	2.9	14.2	1.5	31.9	0.3		
										16.0	2.1	16.7	1.1	37.5	0.2		

WF6 LED 27K30K35K, 3000K LEDs, input watts: 13, delivered lumens: 1207, LM/W=93, test no. ISF 36826P8

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>435</td></tr><tr><td>5</td><td>435</td></tr><tr><td>15</td><td>418</td></tr><tr><td>25</td><td>384</td></tr><tr><td>35</td><td>336</td></tr><tr><td>45</td><td>277</td></tr><tr><td>55</td><td>213</td></tr><tr><td>65</td><td>146</td></tr><tr><td>75</td><td>82</td></tr><tr><td>85</td><td>24</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	435	5	435	15	418	25	384	35	336	45	277	55	213	65	146	75	82	85	24	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>336.1</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>546.1</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>949.4</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>1207.0</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>1207.0</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	336.1	27.8	0° - 40°	546.1	45.2	0° - 60°	949.4	78.7	0° - 90°	1207.0	100.0	90° - 120°	0.0	0.0	90° - 130°	0.0	0.0	90° - 150°	0.0	0.0	90° - 180°	0.0	0.0	0° - 180°	1207.0	*100.0	*Efficiency			<table><tr><th colspan="2"></th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th colspan="2"></th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th colspan="2"></th><th>119</th><th>119</th><th>119</th><th>116</th><th>116</th><th>116</th><th>111</th><th>111</th><th>111</th></tr><tr><td>0</td><td>pc</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>1</td><td>pw</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>2</td><td></td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>3</td><td></td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>4</td><td></td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>5</td><td></td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>6</td><td></td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>7</td><td></td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>8</td><td></td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>9</td><td></td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr><tr><td>10</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>												80%			20%			50%					50%	30%	10%	50%	30%	10%	50%	30%	10%			119	119	119	116	116	116	111	111	111	0	pc	104	99	96	101	98	94	97	94	91	1	pw	90	84	78	88	82	77	85	80	75	2		79	71	65	78	70	64	75	68	63	3		70	62	55	69	61	54	67	59	54	4		63	54	47	62	53	47	60	52	46	5		57	48	41	56	47	41	54	46	41	6		51	43	36	51	42	36	49	42	36	7		47	38	33	46	38	32	45	38	32	8		43	35	29	43	35	29	41	34	29	9		40	32	27	39	32	27	38	31	26	10											<table><tr><th colspan="2">Mounting</th><th colspan="2">Initial FC</th><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><tr><th>Height</th><th>Center Beam</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>14.4</td><td>6.8</td><td>7.2</td><td>15.3</td><td>1.4</td><td></td><td></td></tr><tr><td>10.0</td><td>7.7</td><td>9.3</td><td>3.9</td><td>20.8</td><td>0.8</td><td></td><td></td></tr><tr><td>12.0</td><td>4.8</td><td>11.7</td><td>2.4</td><td>26.4</td><td>0.5</td><td></td><td></td></tr><tr><td>14.0</td><td>3.3</td><td>14.2</td><td>1.6</td><td>31.9</td><td>0.3</td><td></td><td></td></tr><tr><td>16.0</td><td>2.4</td><td>16.7</td><td>1.2</td><td>37.5</td><td>0.2</td><td></td><td></td></tr></table>				Mounting		Initial FC		50% beam - 63.5°		10% beam - 108.5°		Height	Center Beam	Diameter	FC	Diameter	FC	Diameter	FC	8.0	14.4	6.8	7.2	15.3	1.4			10.0	7.7	9.3	3.9	20.8	0.8			12.0	4.8	11.7	2.4	26.4	0.5			14.0	3.3	14.2	1.6	31.9	0.3			16.0	2.4	16.7	1.2	37.5	0.2		
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WF6 LED 27K30K35K, 3500K LEDs, input watts: 14, delivered lumens: 1141, LM/W=82, test no. ISF 36826P9

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>411</td></tr><tr><td>5</td><td>411</td></tr><tr><td>15</td><td>396</td></tr><tr><td>25</td><td>363</td></tr><tr><td>35</td><td>318</td></tr><tr><td>45</td><td>262</td></tr><tr><td>55</td><td>201</td></tr><tr><td>65</td><td>138</td></tr><tr><td>75</td><td>82</td></tr><tr><td>85</td><td>22</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	411	5	411	15	396	25	363	35	318	45	262	55	201	65	138	75	82	85	22	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>317.8</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>516.2</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>897.5</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>1141.0</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>1141.0</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	317.8	27.8	0° - 40°	516.2	45.2	0° - 60°	897.5	78.7	0° - 90°	1141.0	100.0	90° - 120°	0.0	0.0	90° - 130°	0.0	0.0	90° - 150°	0.0	0.0	90° - 180°	0.0	0.0	0° - 180°	1141.0	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>										pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	<table><tr><th colspan="2">Mounting Height</th><th colspan="2">Initial FC</th><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><tr><th>Height</th><th>Center Beam</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>13.6</td><td>6.8</td><td>6.8</td><td>15.3</td><td>1.4</td><td></td><td></td></tr><tr><td>10.0</td><td>7.3</td><td>9.3</td><td>3.7</td><td>20.8</td><td>0.7</td><td></td><td></td></tr><tr><td>12.0</td><td>4.6</td><td>11.7</td><td>2.3</td><td>26.4</td><td>0.5</td><td></td><td></td></tr><tr><td>14.0</td><td>3.1</td><td>14.2</td><td>1.6</td><td>31.9</td><td>0.3</td><td></td><td></td></tr><tr><td>16.0</td><td>2.3</td><td>16.7</td><td>1.1</td><td>37.5</td><td>0.2</td><td></td><td></td></tr></table>				Mounting Height		Initial FC		50% beam - 63.5°		10% beam - 108.5°		Height	Center Beam	Diameter	FC	Diameter	FC	Diameter	FC	8.0	13.6	6.8	6.8	15.3	1.4			10.0	7.3	9.3	3.7	20.8	0.7			12.0	4.6	11.7	2.3	26.4	0.5			14.0	3.1	14.2	1.6	31.9	0.3			16.0	2.3	16.7	1.1	37.5	0.2		
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90° - 150°	0.0	0.0																																																																																																																																																																																																																																																																													
90° - 180°	0.0	0.0																																																																																																																																																																																																																																																																													
0° - 180°	1141.0	*100.0																																																																																																																																																																																																																																																																													
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1	104	99	96	101	98	94	97	94	91																																																																																																																																																																																																																																																																						
2	90	84	78	88	82	77	85	80	75																																																																																																																																																																																																																																																																						
3	79	71	65	78	70	64	75	68	63																																																																																																																																																																																																																																																																						
4	70	62	55	69	61	54	67	59	54																																																																																																																																																																																																																																																																						
5	63	54	47	62	53	47	60	52	46																																																																																																																																																																																																																																																																						
6	57	48	41	56	47	41	54	46	41																																																																																																																																																																																																																																																																						
7	51	43	36	51	42	36	49	42	36																																																																																																																																																																																																																																																																						
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9	43	35	29	43	35	29	41	34	29																																																																																																																																																																																																																																																																						
10	40	32	27	39	32	27	38	31	26																																																																																																																																																																																																																																																																						
Mounting Height		Initial FC		50% beam - 63.5°		10% beam - 108.5°																																																																																																																																																																																																																																																																									
Height	Center Beam	Diameter	FC	Diameter	FC	Diameter	FC																																																																																																																																																																																																																																																																								
8.0	13.6	6.8	6.8	15.3	1.4																																																																																																																																																																																																																																																																										
10.0	7.3	9.3	3.7	20.8	0.7																																																																																																																																																																																																																																																																										
12.0	4.6	11.7	2.3	26.4	0.5																																																																																																																																																																																																																																																																										
14.0	3.1	14.2	1.6	31.9	0.3																																																																																																																																																																																																																																																																										
16.0	2.3	16.7	1.1	37.5	0.2																																																																																																																																																																																																																																																																										

WF6 Switchable White 6" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire														
WF6 LED 30K40K50K, 3000K LEDs, input watts: 14, delivered lumens: 1099, LM/W=79, test no. ISF 36826P10																		
	Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%			50% beam - 63.5°	10% beam - 108.5°	
							pc	50%	30%	10%	50%	30%	10%	50%	30%			10%
	0	396	0° - 30°	306.1	27.8	0	119	119	119	116	116	116	111	111	111			
	5	396	0° - 40°	497.2	45.2	1	104	99	96	101	98	94	97	94	91			
	15	381	0° - 60°	864.4	78.7	2	90	84	78	88	82	77	85	80	75			
	25	350	0° - 90°	1099.0	100.0	3	79	71	65	78	70	64	75	68	63			
	35	306	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54			
	45	252	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46			
	55	194	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41			
	65	133	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36			
	75	75	0° - 180°	1099.0	*100.0	8	47	38	33	46	38	32	45	38	32			
	85	21					9	43	35	29	43	35	29	41	34			29
90	0			*Efficiency		10	40	32	27	39	32	27	38	31	26			
										Initial FC								
										Mounting Height	Center Beam	Diameter	FC	Diameter	FC			
										8.0	13.1	6.8	6.5	15.3	1.3			
										10.0	7.0	9.3	3.5	20.8	0.7			
										12.0	4.4	11.7	2.2	26.4	0.4			
										14.0	3.0	14.2	1.5	31.9	0.3			
										16.0	2.2	16.7	1.1	37.5	0.2			

WF6 LED 30K40K50K, 4000K LEDs, input watts: 13, delivered lumens: 1199, LM/W=92, test no. ISF 36826P11

Ave	Lumens	Zone	Lumens	% Lamp
0	432	0° - 30°	333.9	27.8
5	432	0° - 40°	542.4	45.2
15	416	0° - 60°	943.1	78.7
25	382	0° - 90°	1199.0	100.0
35	334	90° - 120°	0.0	0.0
45	275	90° - 130°	0.0	0.0
55	212	90° - 150°	0.0	0.0
65	145	90° - 180°	0.0	0.0
75	81	0° - 180°	1199.0	*100.0
85	23	*Efficiency		
90	0			

pf	80%			20%			50%			
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	
pw	0	119	119	119	116	116	116	111	111	111
1	104	99	96	101	98	94	97	94	91	
2	90	84	78	88	82	77	85	80	75	
3	79	71	65	78	70	64	75	68	63	
4	70	62	55	69	61	54	67	59	54	
5	63	54	47	62	53	47	60	52	46	
6	57	48	41	56	47	41	54	46	41	
7	51	43	36	51	42	36	49	42	36	
8	47	38	33	46	38	32	45	38	32	
9	43	35	29	43	35	29	41	34	29	
10	40	32	27	39	32	27	38	31	26	

50% beam - 63.5°

10% beam - 108.5°

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	14.3	6.8	7.1	15.3	1.4
10.0	7.7	9.3	3.8	20.8	0.8
12.0	4.8	11.7	2.4	26.4	0.5
14.0	3.3	14.2	1.6	31.9	0.3
16.0	2.4	16.7	1.2	37.5	0.2

WF6 LED 30K40K50K, 5000K LEDs, input watts: 14, delivered lumens: 1127, LM/W=81, test no. ISF 36826P12

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>406</td></tr><tr><td>5</td><td>406</td></tr><tr><td>15</td><td>391</td></tr><tr><td>25</td><td>359</td></tr><tr><td>35</td><td>314</td></tr><tr><td>45</td><td>258</td></tr><tr><td>55</td><td>199</td></tr><tr><td>65</td><td>136</td></tr><tr><td>75</td><td>77</td></tr><tr><td>85</td><td>22</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	406	5	406	15	391	25	359	35	314	45	258	55	199	65	136	75	77	85	22	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>313.9</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>509.9</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>886.5</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>1127.0</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>1127.0</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	313.9	27.8	0° - 40°	509.9	45.2	0° - 60°	886.5	78.7	0° - 90°	1127.0	100.0	90° - 120°	0.0	0.0	90° - 130°	0.0	0.0	90° - 150°	0.0	0.0	90° - 180°	0.0	0.0	0° - 180°	1127.0	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>										pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw	0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	50% beam - 63.5° 10% beam - 108.5°			
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<table><tr><th>Mounting Height</th><th>Initial FC</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>13.4</td><td>6.8</td><td>6.7</td><td>15.3</td><td>1.3</td></tr><tr><td>10.0</td><td>7.2</td><td>9.3</td><td>3.6</td><td>20.8</td><td>0.7</td></tr><tr><td>12.0</td><td>4.5</td><td>11.7</td><td>2.3</td><td>26.4</td><td>0.4</td></tr><tr><td>14.0</td><td>3.1</td><td>14.2</td><td>1.5</td><td>31.9</td><td>0.3</td></tr><tr><td>16.0</td><td>2.2</td><td>16.7</td><td>1.1</td><td>37.5</td><td>0.2</td></tr></table>		Mounting Height	Initial FC	Diameter	FC	Diameter	FC	8.0	13.4	6.8	6.7	15.3	1.3	10.0	7.2	9.3	3.6	20.8	0.7	12.0	4.5	11.7	2.3	26.4	0.4	14.0	3.1	14.2	1.5	31.9	0.3	16.0	2.2	16.7	1.1	37.5	0.2																																																																																																																																																																									
Mounting Height	Initial FC	Diameter	FC	Diameter	FC																																																																																																																																																																																																									
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14.0	3.1	14.2	1.5	31.9	0.3																																																																																																																																																																																																									
16.0	2.2	16.7	1.1	37.5	0.2																																																																																																																																																																																																									

WF6 Switchable White 6" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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WF6 LL LED 27K30K35K, 3000K LEDs, input watts: 9.7, delivered lumens: 926, LM/W=95, test no. ISF 36826P14

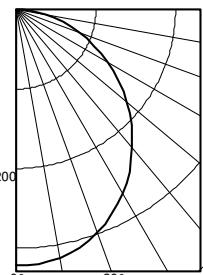
Ave	Lumens	Zone	Lumens	% Lamp	pf	80%			20%			50%		
					pc	50%	30%	10%	50%	30%	10%	50%	30%	10%
					pw									
0	334	0° - 30°	257.8	27.8	0	119	119	119	116	116	116	111	111	111
5	333	0° - 40°	418.8	45.2	1	104	99	96	101	98	94	97	94	91
15	321	0° - 60°	728.2	78.7	2	90	84	78	88	82	77	85	80	75
25	295	0° - 90°	925.8	100.0	3	79	71	65	78	70	64	75	68	63
35	258	90° - 120°	0.0	0.0	4	70	62	55	69	61	54	67	59	54
45	212	90° - 130°	0.0	0.0	5	63	54	47	62	53	47	60	52	46
55	163	90° - 150°	0.0	0.0	6	57	48	41	56	47	41	54	46	41
65	112	90° - 180°	0.0	0.0	7	51	43	36	51	42	36	49	42	36
75	63	0° - 180°	925.8	*100.0	8	47	38	33	46	38	32	45	38	32
85	18				9	43	35	29	43	35	29	41	34	29
90	0				10	40	32	27	39	32	27	38	31	26

50% beam - 63.5°

10% beam - 108.5°

Mounting Height	Initial FC Center Beam	Diameter	FC	Diameter	FC
8.0	11.0	6.8	5.5	15.3	1.1
10.0	5.9	9.3	3.0	20.8	0.6
12.0	3.7	11.7	1.8	26.4	0.4
14.0	2.5	14.2	1.3	31.9	0.3
16.0	1.8	16.7	0.9	37.5	0.2

WF6 LL LED 27K30K35K, 3500K LEDs, input watts: 9.9, delivered lumens: 893, LM/W=90, test no. ISF 36826P15

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>322</td></tr><tr><td>5</td><td>321</td></tr><tr><td>15</td><td>309</td></tr><tr><td>25</td><td>284</td></tr><tr><td>35</td><td>249</td></tr><tr><td>45</td><td>205</td></tr><tr><td>55</td><td>157</td></tr><tr><td>65</td><td>108</td></tr><tr><td>75</td><td>61</td></tr><tr><td>85</td><td>17</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	322	5	321	15	309	25	284	35	249	45	205	55	157	65	108	75	61	85	17	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>248.5</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>403.7</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>701.9</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>892.3</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>892.3</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	248.5	27.8	0° - 40°	403.7	45.2	0° - 60°	701.9	78.7	0° - 90°	892.3	100.0	90° - 120°	0.0	0.0	90° - 130°	0.0	0.0	90° - 150°	0.0	0.0	90° - 180°	0.0	0.0	0° - 180°	892.3	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>										pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	<table><tr><th colspan="2">Mounting Height</th><th colspan="2">Initial FC</th><th colspan="2">50% beam - 63.5°</th><th colspan="2">10% beam - 108.5°</th></tr><tr><th>Height</th><th>Center Beam</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th><th>Diameter</th><th>FC</th></tr><tr><td>8.0</td><td>10.6</td><td>6.8</td><td>5.3</td><td>15.3</td><td>1.1</td><td></td><td></td></tr><tr><td>10.0</td><td>5.7</td><td>9.3</td><td>2.9</td><td>20.8</td><td>0.6</td><td></td><td></td></tr><tr><td>12.0</td><td>3.6</td><td>11.7</td><td>1.8</td><td>26.4</td><td>0.4</td><td></td><td></td></tr><tr><td>14.0</td><td>2.4</td><td>14.2</td><td>1.2</td><td>31.9</td><td>0.2</td><td></td><td></td></tr><tr><td>16.0</td><td>1.8</td><td>16.7</td><td>0.9</td><td>37.5</td><td>0.2</td><td></td><td></td></tr></table>				Mounting Height		Initial FC		50% beam - 63.5°		10% beam - 108.5°		Height	Center Beam	Diameter	FC	Diameter	FC	Diameter	FC	8.0	10.6	6.8	5.3	15.3	1.1			10.0	5.7	9.3	2.9	20.8	0.6			12.0	3.6	11.7	1.8	26.4	0.4			14.0	2.4	14.2	1.2	31.9	0.2			16.0	1.8	16.7	0.9	37.5	0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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WF6 Switchable White 6" LED Wafer Module

PHOTOMETRICS

Distribution Curve	Distribution Data	Output Data	Coefficient of Utilization	Illuminance Data at 30" Above Floor for a Single Luminaire																																																																																																																																																																																																								
	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>308</td></tr><tr><td>5</td><td>308</td></tr><tr><td>15</td><td>296</td></tr><tr><td>25</td><td>272</td></tr><tr><td>35</td><td>238</td></tr><tr><td>45</td><td>196</td></tr><tr><td>55</td><td>151</td></tr><tr><td>65</td><td>104</td></tr><tr><td>75</td><td>58</td></tr><tr><td>85</td><td>17</td></tr><tr><td>90</td><td>0</td></tr></table>	Ave	Lumens	0	308	5	308	15	296	25	272	35	238	45	196	55	151	65	104	75	58	85	17	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>238.1</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>386.9</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>672.6</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>855.1</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>855.1</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>	Zone	Lumens	% Lamp	0° - 30°	238.1	27.8	0° - 40°	386.9	45.2	0° - 60°	672.6	78.7	0° - 90°	855.1	100.0	90° - 120°	0.0	0.0	90° - 130°	0.0	0.0	90° - 150°	0.0	0.0	90° - 180°	0.0	0.0	0° - 180°	855.1	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>	pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	50% beam - 63.5° 10% beam - 108.5°			
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WF6 LL LED 30K40K50K, 4000K LEDs, input watts: 10, delivered lumens: 923, LM/W=92, test no. ISF 36826P17

Ave	Lumens
0	333
5	332
15	320
25	294
35	257
45	212
55	163
65	112
75	63
85	18
90	0

Zone	Lumens	% Lamp
0° - 30°	257.0	27.8
0° - 40°	417.5	45.2
0° - 60°	725.9	78.7
0° - 90°	922.9	100.0
90° - 120°	0.0	0.0
90° - 130°	0.0	0.0
90° - 150°	0.0	0.0
90° - 180°	0.0	0.0
0° - 180°	922.9	*100.0
*Efficiency		

pf	80%			20%			50%		
pc	50%	30%	10%	50%	30%	10%	50%	30%	10%
pw									
0	119	119	119	116	116	116	111	111	111
1	104	99	96	101	98	94	97	94	91
2	90	84	78	88	82	77	85	80	75
3	79	71	65	78	70	64	75	68	63
4	70	62	55	69	61	54	67	59	54
5	63	54	47	62	53	47	60	52	46
6	57	48	41	56	47	41	54	46	41
7	51	43	36	51	42	36	49	42	36
8	47	38	33	46	38	32	45	38	32
9	43	35	29	43	35	29	41	34	29
10	40	32	27	39	32	27	38	31	26

50% beam - 63.5°

10% beam - 108.5°

Mounting Height	Initial FC Center Beam	Diameter FC	FC	Diameter FC	FC
8.0	11.0	6.8	5.5	15.3	1.1
10.0	5.9	9.3	3.0	20.8	0.6
12.0	3.7	11.7	1.8	26.4	0.4
14.0	2.5	14.2	1.3	31.9	0.3
16.0	1.8	16.7	0.9	37.5	0.2

WF6 LL LED 30K40K50K, 5000K LEDs, input watts: 10, delivered lumens: 886, LM/W=87, test no. ISF 36826P18

	<table><tr><th>Ave</th><th>Lumens</th></tr><tr><td>0</td><td>319</td></tr><tr><td>5</td><td>319</td></tr><tr><td>15</td><td>307</td></tr><tr><td>25</td><td>282</td></tr><tr><td>35</td><td>247</td></tr><tr><td>45</td><td>203</td></tr><tr><td>55</td><td>156</td></tr><tr><td>65</td><td>107</td></tr><tr><td>75</td><td>64</td></tr><tr><td>85</td><td>17</td></tr><tr><td>90</td><td>0</td></tr></table>		Ave	Lumens	0	319	5	319	15	307	25	282	35	247	45	203	55	156	65	107	75	64	85	17	90	0	<table><tr><th>Zone</th><th>Lumens</th><th>% Lamp</th></tr><tr><td>0° - 30°</td><td>246.8</td><td>27.8</td></tr><tr><td>0° - 40°</td><td>400.9</td><td>45.2</td></tr><tr><td>0° - 60°</td><td>697.1</td><td>78.7</td></tr><tr><td>0° - 90°</td><td>886.2</td><td>100.0</td></tr><tr><td>90° - 120°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 130°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 150°</td><td>0.0</td><td>0.0</td></tr><tr><td>90° - 180°</td><td>0.0</td><td>0.0</td></tr><tr><td>0° - 180°</td><td>886.2</td><td>*100.0</td></tr><tr><td colspan="3">*Efficiency</td></tr></table>		Zone	Lumens	% Lamp	0° - 30°	246.8	27.8	0° - 40°	400.9	45.2	0° - 60°	697.1	78.7	0° - 90°	886.2	100.0	90° - 120°	0.0	0.0	90° - 130°	0.0	0.0	90° - 150°	0.0	0.0	90° - 180°	0.0	0.0	0° - 180°	886.2	*100.0	*Efficiency			<table><tr><th>pf</th><th colspan="3">80%</th><th colspan="3">20%</th><th colspan="3">50%</th></tr><tr><th>pc</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th><th>50%</th><th>30%</th><th>10%</th></tr><tr><th>pw</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></tr><tr><td>0</td><td>119</td><td>119</td><td>119</td><td>116</td><td>116</td><td>116</td><td>111</td><td>111</td><td>111</td></tr><tr><td>1</td><td>104</td><td>99</td><td>96</td><td>101</td><td>98</td><td>94</td><td>97</td><td>94</td><td>91</td></tr><tr><td>2</td><td>90</td><td>84</td><td>78</td><td>88</td><td>82</td><td>77</td><td>85</td><td>80</td><td>75</td></tr><tr><td>3</td><td>79</td><td>71</td><td>65</td><td>78</td><td>70</td><td>64</td><td>75</td><td>68</td><td>63</td></tr><tr><td>4</td><td>70</td><td>62</td><td>55</td><td>69</td><td>61</td><td>54</td><td>67</td><td>59</td><td>54</td></tr><tr><td>5</td><td>63</td><td>54</td><td>47</td><td>62</td><td>53</td><td>47</td><td>60</td><td>52</td><td>46</td></tr><tr><td>6</td><td>57</td><td>48</td><td>41</td><td>56</td><td>47</td><td>41</td><td>54</td><td>46</td><td>41</td></tr><tr><td>7</td><td>51</td><td>43</td><td>36</td><td>51</td><td>42</td><td>36</td><td>49</td><td>42</td><td>36</td></tr><tr><td>8</td><td>47</td><td>38</td><td>33</td><td>46</td><td>38</td><td>32</td><td>45</td><td>38</td><td>32</td></tr><tr><td>9</td><td>43</td><td>35</td><td>29</td><td>43</td><td>35</td><td>29</td><td>41</td><td>34</td><td>29</td></tr><tr><td>10</td><td>40</td><td>32</td><td>27</td><td>39</td><td>32</td><td>27</td><td>38</td><td>31</td><td>26</td></tr></table>										pf	80%			20%			50%			pc	50%	30%	10%	50%	30%	10%	50%	30%	10%	pw										0	119	119	119	116	116	116	111	111	111	1	104	99	96	101	98	94	97	94	91	2	90	84	78	88	82	77	85	80	75	3	79	71	65	78	70	64	75	68	63	4	70	62	55	69	61	54	67	59	54	5	63	54	47	62	53	47	60	52	46	6	57	48	41	56	47	41	54	46	41	7	51	43	36	51	42	36	49	42	36	8	47	38	33	46	38	32	45	38	32	9	43	35	29	43	35	29	41	34	29	10	40	32	27	39	32	27	38	31	26	50% beam - 63.5° 10% beam - 108.5°			
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4	70	62	55	69	61	54	67	59	54																																																																																																																																																																																																														
5	63	54	47	62	53	47	60	52	46																																																																																																																																																																																																														
6	57	48	41	56	47	41	54	46	41																																																																																																																																																																																																														
7	51	43	36	51	42	36	49	42	36																																																																																																																																																																																																														
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WF6 Switchable White 6" LED Wafer Module

ENERGY DATA

WF6 LED 27K30K35K			
Color Temperature	2700K	3000K	3500K
Lumens	1070	1150	1110
CRI	90	90	90
Rated wattage	14.1	13.4	13.9
Lu/Watts	75.9	85.8	79.9
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.12A	0.12A	0.12A

WF6 LL 27K30K35K			
Color Temperature	2700K	3000K	3500K
Lumens	830	900	860
CRI	90	90	90
Rated wattage	10	9.7	9.9
Lu/Watts	83.0	92.8	86.9
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.08A	0.08A	0.08A

WF6 LED 30K40K50K			
Color Temperature	3000K	4000K	5000K
Lumens	1090	1190	1120
CRI	90	90	90
Rated wattage	13.8	13.4	13.9
Lu/Watts	79.0	88.8	80.6
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.12A	0.12A	0.12A

WF6 LL 30K40K50K			
Color Temperature	3000K	4000K	5000K
Lumens	850	920	880
CRI	90	90	90
Rated wattage	9.9	9.8	10
Lu/Watts	85.9	93.9	88.0
Min. starting temp	-40°C (-40°F)	-40°C (-40°F)	-40°C (-40°F)
EMI/RFI	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B	FCC Title 47 CFR, Part 15, Class B
Sound rating	Class A Standards	Class A Standards	Class A Standards
Input voltage	120V	120V	120V
Min. power factor	0.98	0.98	0.98
Input frequency	50/60 Hz	50/60 Hz	50/60 Hz
Input power	120V	120V	120V
Input current	0.08A	0.08A	0.08A

WF6 Switchable White 6" LED Wafer Module

LIGHTING PERFORMANCE DATA



LOW LUMEN

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K	soft white blanc doux
830 lumens 83 lumens per watt	
3000K	warm white blanc chaud
900 lumens 90 lumens per watt	
3500K	neutral white blanc neutre
860 lumens 86 lumens per watt	
Watts	10
Color Accuracy (CRI) Précision des couleurs (CRI)	90

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
3000K	warm white blanc chaud
850 lumens 85 lumens per watt	
4000K	cool white blanc froid
920 lumens 92 lumens per watt	
5000K	daylight blanc neutre
880 lumens 88 lumens per watt	
Watts	10
Color Accuracy (CRI) Précision des couleurs (CRI)	90



HIGH LUMEN

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
2700K	soft white blanc doux
1070 lumens 76 lumens per watt	
3000K	warm white blanc chaud
1150 lumens 82 lumens per watt	
3500K	neutral white blanc neutre
1110 lumens 79 lumens per watt	
Watts	14
Color Accuracy (CRI) Précision des couleurs (CRI)	90

LIGHTING PERFORMANCE DATA DONNÉES SUR LE RENDEMENT DE L'ÉCLAIRAGE	
Light Appearance (CCT) Aspect de la lumière (CCT)	
3000K	warm white blanc chaud
1090 lumens 78 lumens per watt	
4000K	cool white blanc froid
1190 lumens 85 lumens per watt	
5000K	daylight blanc neutre
1120 lumens 80 lumens per watt	
Watts	14
Color Accuracy (CRI) Précision des couleurs (CRI)	90



RSX1 LED Area Luminaire

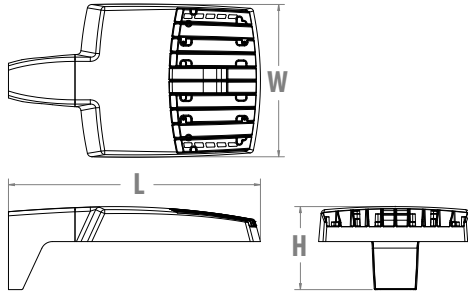


Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

Specifications

EPA (ft²@0°):	0.57 ft² (0.05 m²)
Length:	21.8" (55.4 cm) (SPA mount)
Width:	13.3" (33.8 cm)
Height:	3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm
Weight (max):	31.0 lbs (14.1 kg)



Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

Ordering Information

EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

RSX1 LED					
Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1	30K 3000K	R2 Type 2 Wide	MVOLT (120V-277V) ²	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°)
	P2	40K 4000K	R3 Type 3 Wide	HVOLT (347V-480V) ³	RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°)
	P3	50K 5000K	R3S Type 3 Short	(use specific voltage for options as noted)	MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon)
	P4		R4 Type 4 Wide		IS Adjustable slipfitter (fits 2-3/8" OD tenon) ⁵
			R4S Type 4 Short		WBA Wall bracket ¹
			R5 Type 5 Wide ¹		WBASC Wall bracket with surface conduit box
			R5S Type 5 Short ¹	120 ³ 277 ⁴	AASP Adjustable tilt arm square pole mounting ⁵
			AFR Automotive Front Row	208 ³ 347 ⁴	AARP Adjustable tilt arm round pole mounting ⁵
			AFRR90 Automotive Front Row Right Rotated	240 ³ 480 ⁴	AAWB Adjustable tilt arm with wall bracket ⁵
			AFRL90 Automotive Front Row Left Rotated		AAWSC Adjustable tilt arm wall bracket and surface conduit box ⁵

Options			Finish
Shipped Installed HS House-side shield ⁶ PE Photocontrol, button style ^{7,8} PEX Photocontrol external threaded, adjustable ^{8,9} PER7 Seven-wire twist-lock receptacle only (no controls) ^{8,10,11,12} CE34 Conduit entry 3/4" NPT (Qty 2) SF Single fuse (120, 277, 347) ⁴ DF Double fuse (208, 240, 480) ⁴ SPD20KV 20KV Surge pack (10KV standard) FAO Field adjustable output ^{8,12} DMG 0-10V dimming extend out back of housing for external control (control ordered separate) ^{8,12}			DDBXD Dark Bronze DBLXD Black DNAXD Natural Aluminum DWHXD White DDBTXD Textured Dark Bronze DBLBXD Textured Black DNATXD Textured Natural Aluminum DWHGXD Textured White
Shipped Installed *Standalone and Networked Sensors/Controls (factory default settings, see table page 9) NLTAIR2 nLight AIR generation 2 ^{12,13,14} PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2) ^{12,14,15} *Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted. Shipped Separately (requires some field assembly) EGS External glare shield ⁶ EGFV External glare full visor (360° around light aperture) ⁶ BS Bird spikes ¹⁶			



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Lithonia RSX1 Area LED
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Ordering Information

Accessories

Ordered and shipped separately.

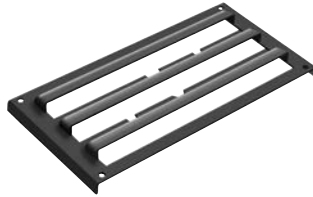
RSX1HS	RSX1 House side shield (includes 1 shield)
RSX1HSAFRR U	RSX1 House side shield for AFR rotated optics (includes 1 shield)
RSX1EGS (FINISH) U	External glare shield (specify finish)
RSX1EGFV (FINISH) U	External glare full visor (specify finish)
RSXRPA (FINISH) U	RSX Universal round pole adaptor plate (specify finish)
RSXWBA (FINISH) U	RSX WBA wall bracket (specify finish) ¹
RSXSCB (FINISH) U	RSX Surface conduit box (specify finish, for use with WBA, WBA not included)
DLL127F 1.5 JU	Photocell -SSL twist-lock (120-277V) ¹⁷
DLL347F 1.5 CUL JU	Photocell -SSL twist-lock (347V) ¹⁷
DLL480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) ¹⁷
DSHORT SBK U	Shorting cap ¹⁷

NOTES

- Any Type 5 distribution, is not available with WBA.
- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- Maximum tilt is 90° above horizontal.
- It may be ordered as an accessory.
- Requires MVOLT or 347V.
- Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHN).
- Requires 120V, 208V, 240V, 277V or 347V.
- Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.

- For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
- Must be ordered with PIRHN.
- Requires MVOLT or HVOLT.
- Must be ordered with NLTAIR2. For additional information on PIRHN visit [here](#).
- Must be ordered with fixture for factory pre-drilling.
- Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

External Shields



House Side Shield



External Glare Shield

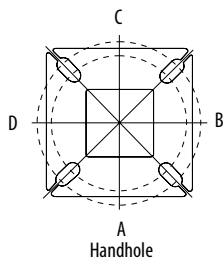


External 360 Full Visor

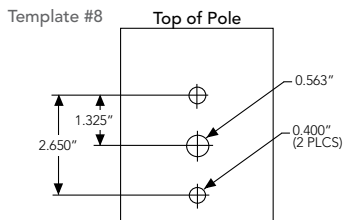
Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

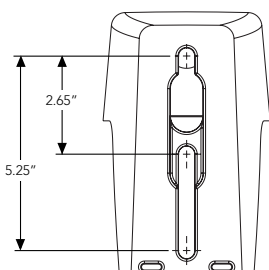
HANDHOLE ORIENTATION



RSX POLE DRILLING



RSX STANDARD ARM & ADJUSTABLE ARM



Round Tenon Mount - Pole Top Slipfitters

Tenon O.D.	RSX Mounting	Single	2 at 180°	2 at 90°	3 at 120°	3 at 90°	4 at 90°
2 - 3/8"	RPA, AARP	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
2 - 7/8"	RPA, AARP	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	RPA, AARP	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

Drill/Side Location by Configuration Type

Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS

RSX1 - Luminaire EPA

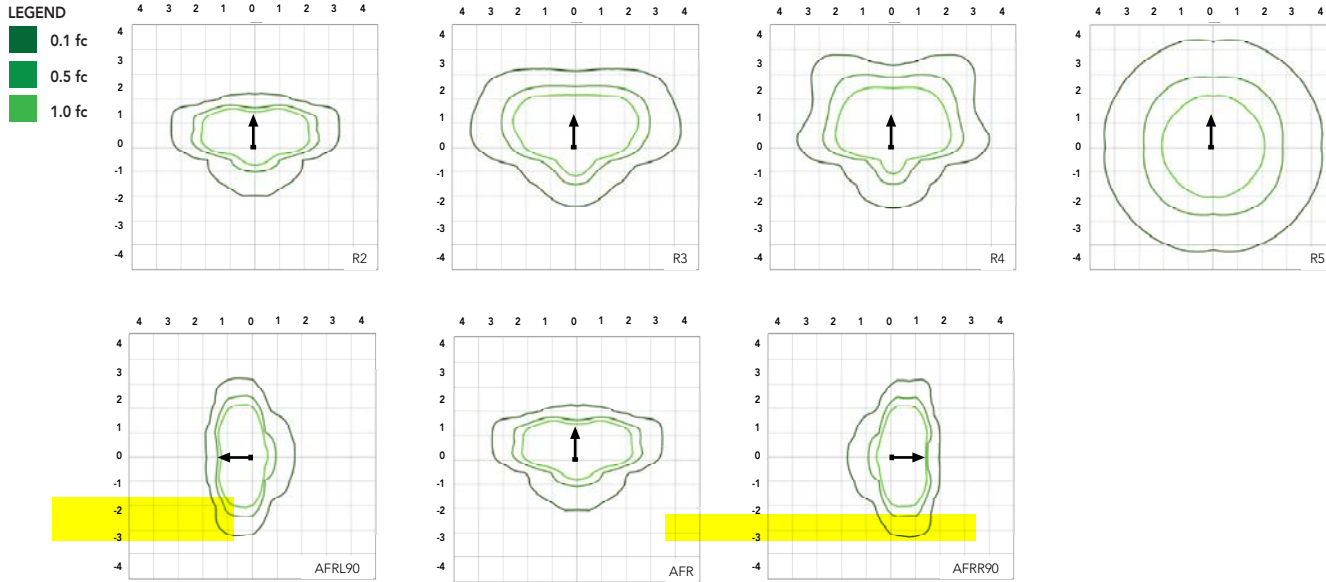
*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration		Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side
Mounting Type	Tilt									
SPA - Square Pole Adaptor	0 °	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
RPA - Round Pole Adaptor		0.62	1.08	1.15	1.62	1.46	2.13	1.36	1.8	2.36
MA - Mast Arm Adaptor		0.49	0.95	0.89	1.36	1.2	1.87	1.23	1.54	2.1
IS - Integral Slipfitter AASP/AARP - Adjustable Arm Square/Round Pole	0 °	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73	4.97
	40°	1.81	2.68	2.98	3.85	3.68	5.30	3.62	5.43	7.24
	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33	8.44
	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27	11.03
	90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18	10.97

Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [RSX Area homepage](#).

Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').



Performance Data

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97
45°C	113°F	0.96
50°C	122°F	0.95

Electrical Load

Performance Package	System Watts (W)	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27

Projected LED Lumen Maintenance

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



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Performance Data

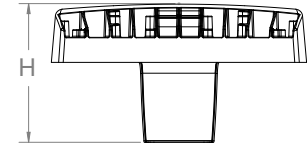
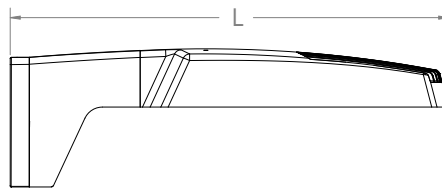
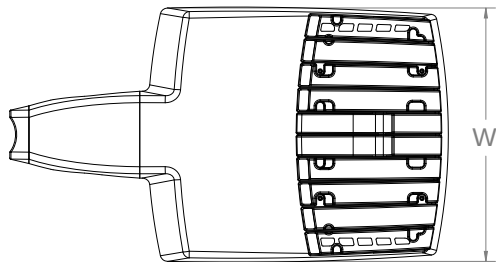
Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	R2	6,482	1	0	1	126	7,121	1	0	1	139	7,121	1	0	1	139
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R3S	6,631	1	0	1	129	7,286	1	0	2	142	7,286	1	0	2	142
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
		R4S	6,313	1	0	1	124	6,936	1	0	1	136	6,936	1	0	1	136
		R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		AFRR90	6,535	2	0	2	127	7,179	2	0	2	140	7,179	2	0	2	140
		AFRL90	6,562	2	0	1	128	7,210	2	0	2	140	7,210	2	0	2	140
P2	72W	R2	8,991	2	0	1	123	9,878	2	0	1	135	9,878	2	0	1	135
		R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R3S	9,198	2	0	2	126	10,106	2	0	2	139	10,106	2	0	2	139
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
		R4S	8,757	1	0	2	122	9,622	2	0	2	134	9,622	2	0	2	134
		R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		AFRR90	9,064	3	0	2	124	9,959	3	0	2	137	9,959	3	0	2	137
		AFRL90	9,102	3	0	2	125	10,001	3	0	2	137	10,001	3	0	2	137
P3	109W	R2	12,808	2	0	1	117	14,072	2	0	2	129	14,072	2	0	2	129
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R3S	13,104	2	0	2	120	14,397	2	0	2	132	14,397	2	0	2	132
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
		R4S	12,475	2	0	2	114	13,707	2	0	2	126	13,707	2	0	2	126
		R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		AFRR90	12,913	3	0	3	118	14,187	3	0	3	130	14,187	3	0	3	130
		AFRL90	12,967	3	0	2	118	14,247	3	0	3	130	14,247	3	0	3	130
P4	133W	R2	14,943	2	0	2	112	16,417	2	0	2	123	16,417	2	0	2	123
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R3S	15,287	2	0	2	115	16,796	2	0	2	126	16,796	2	0	2	126
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
		R4S	14,554	2	0	2	109	15,991	2	0	2	120	15,991	2	0	2	120
		R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123
		AFRR90	15,065	3	0	3	113	16,551	3	0	3	124	16,551	3	0	3	124
		AFRL90	15,128	3	0	3	114	16,621	3	0	3	125	16,621	3	0	3	125

Dimensions

RSX1 with Round Pole Adapter (RPA)

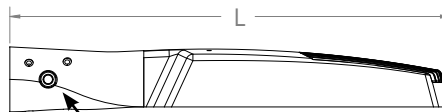
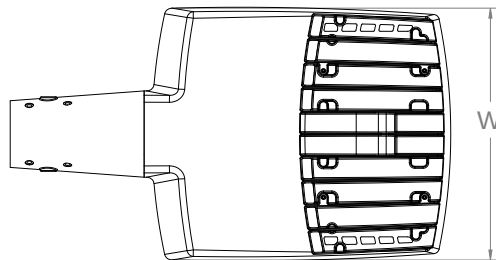


Note: RPA — Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



Length: 22.8" (57.9 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
7.2" (18.4 cm) Arm

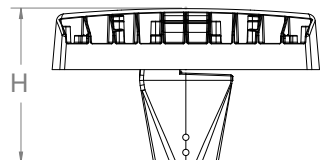
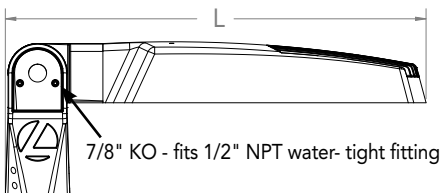
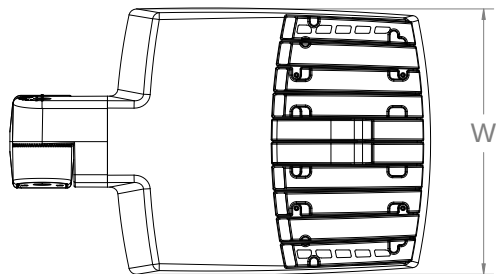
RSX1 with Mast Arm Adapter (MA)



7/16" locking thru bolt/nut provided

Length: 23.2" (59.1 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
3.5" (8.9 cm) Arm

RSX1 with Adjustable Slipfitter (IS)

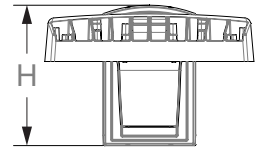
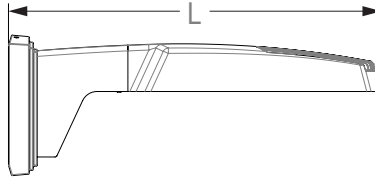
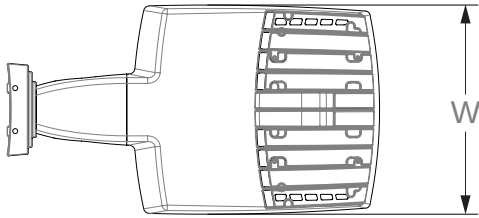


7/8" KO - fits 1/2" NPT water-tight fitting

Length: 20.7" (52.7 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
7.6" (19.3 cm) Arm

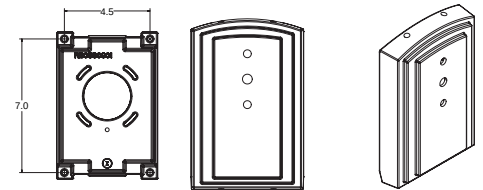
Dimensions

RSX1 with Wall Bracket (WBA)

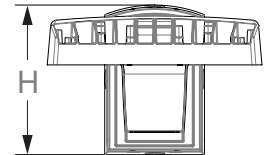
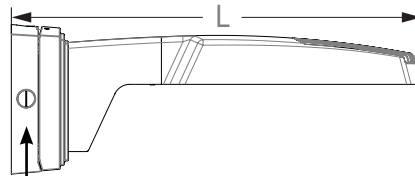
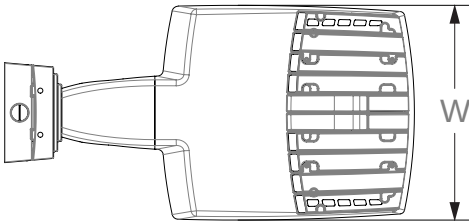


Length: 23.6" (59.9 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 8.9" (22.6 cm) Arm

Wall Bracket (WBA) Mounting Detail



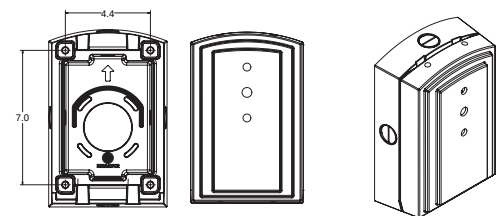
RSX1 with Wall Bracket with Surface Conduit Box (WBASC)



3/4" NPT taps with plugs - Qty (4) provided

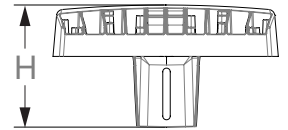
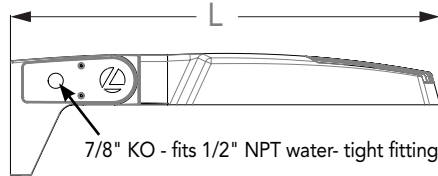
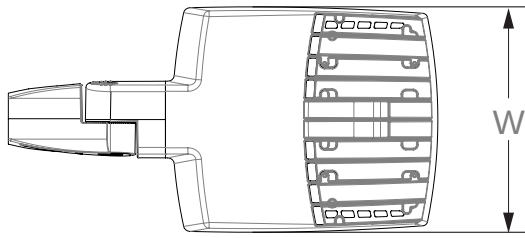
Length: 25.3" (64.3 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 9.2" (23.4 cm) Arm

Surface Conduit Box (SCB) Mounting Detail

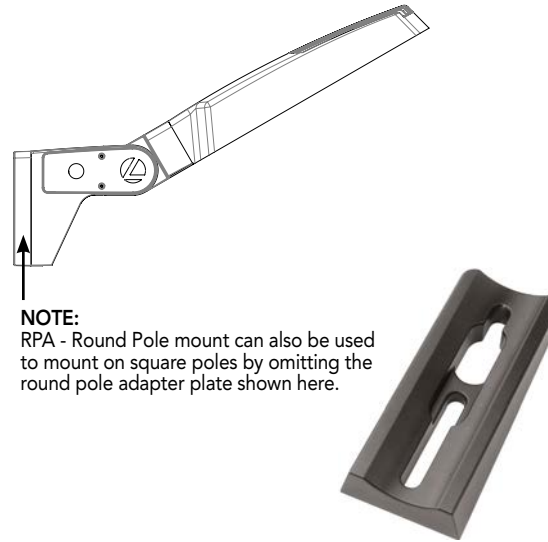


Dimensions

RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Length: 25.3" (65.3 cm) **AASP**
 26.3" (66.8 cm) **AARP**
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 7.2" (18.2 cm) Arm



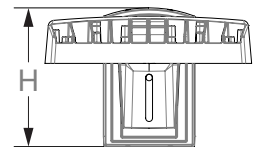
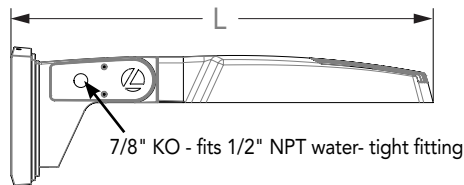
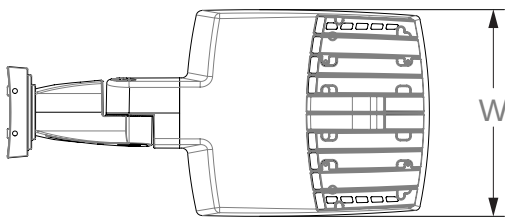
NOTE:
 RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.

Notes

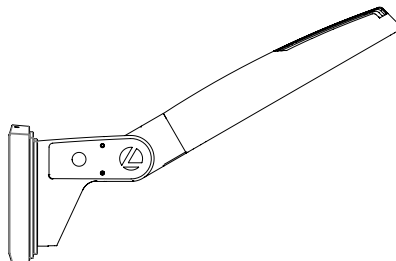
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

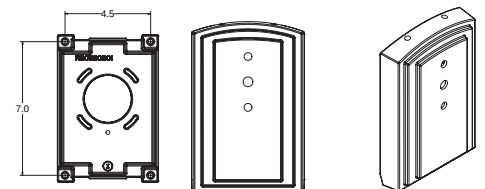
RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



Length: 27.1" (68.8 cm)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 8.9" (22.6 cm) Arm

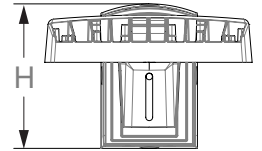
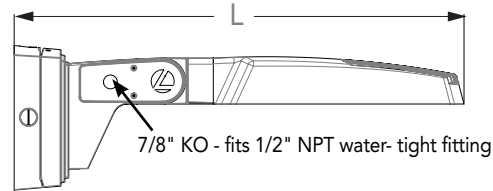
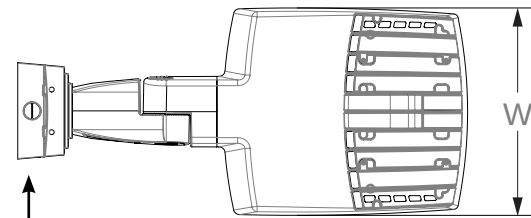


Wall Bracket (WBA) Mounting Detail



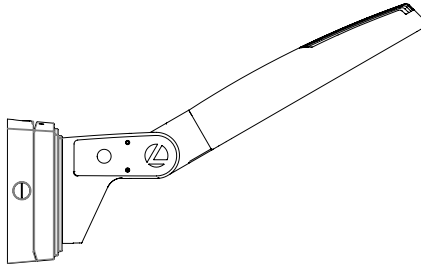
Dimensions

RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)

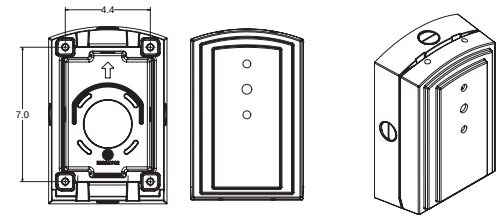


3/4" NPT taps
with plugs - Qty (4)
provided

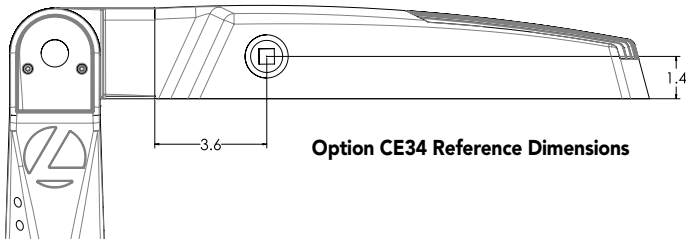
Length: 28.8" (73.2 cm)
Width: 13.3" (33.8 cm)
Height: 3.0" (7.6 cm) Main Body
9.2" (23.4 cm) Arm



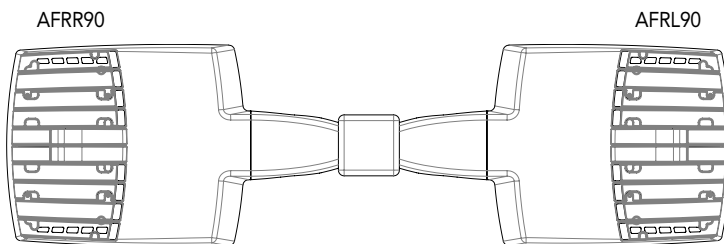
Surface Conduit Box (SCB) Mounting Detail



Additional Reference Drawings



Automotive Front Row - Rotated Optics (AFRL90/R90)





CERTIFICATE OF APPROPRIATENESS

Name of Applicant: Ball Homes, LLC

Date Filed: 8/17/2020 Fee Paid: \$150 File Number: 11-A-20-TOA

Map Number: 103 Zoning District: OB/TO

Jurisdiction: ☐ City _____ Councilmanic District ☒ County 6 Commission District

PROPERTY INFORMATION

ADDRESS: 0 Solway Road

STREET NUMBER AND NAME

GENERAL LOCATION: Solway Road across from Sam Lee Road

PARCEL NUMBER(S): 103 086 & 103 09601

SIZE OF TRACT: 40.86 ☒ ACRES ☐ SQUARE FEET

PURPOSE OF REQUEST

- ☒ BUILDING PERMIT — New Construction
☐ BUILDING PERMIT — Expansion or Renovation
☐ BUILDING PERMIT — Grading Plan
☐ REZONING

From: _____

To: _____

- ☐ SIGNAGE
☐ ZONING VARIANCE — (Describe and give reason)

NOTE: Four (4) copies of all plan materials are required to process the application. Please check all that apply:

- ☐ DEVELOPMENT PLAN
☐ BUILDING ELEVATIONS
☐ FLOOR PLAN
☐ LANDSCAPE PLAN WITH SCHEDULE
☐ SIGNAGE PLAN
☐ OFF-STREET PARKING PLAN
☒ OTHER: Site Lighting Plans

APPLICATION CORRESPONDENCE — All correspondence relating to this application should be sent to:

PLEASE PRINT

Name: Ball Homes, LLC Phone: 859-268-1191 Fax: _____

Mailing Address: 3609 Waldon Dr. Lexington KY 40517

APPLICATION AUTHORIZATION — I hereby certify that I am the authorized applicant, representing ALL property owners involved in this request or holders of option on same, whose signatures are included on the back of this form.

Signature: _____

PLEASE PRINT

Name: Ball Homes, LLC (Mr. D. Ray Ball, Jr.) Phone: 859-268-1191 Fax: _____

Mailing Address: 3609 Waldon Dr. Lexington KY 40517

APPLICATION ACCEPTANCE — Staff Member who accepted this application: Michelle Portier *Michelle Portier*

