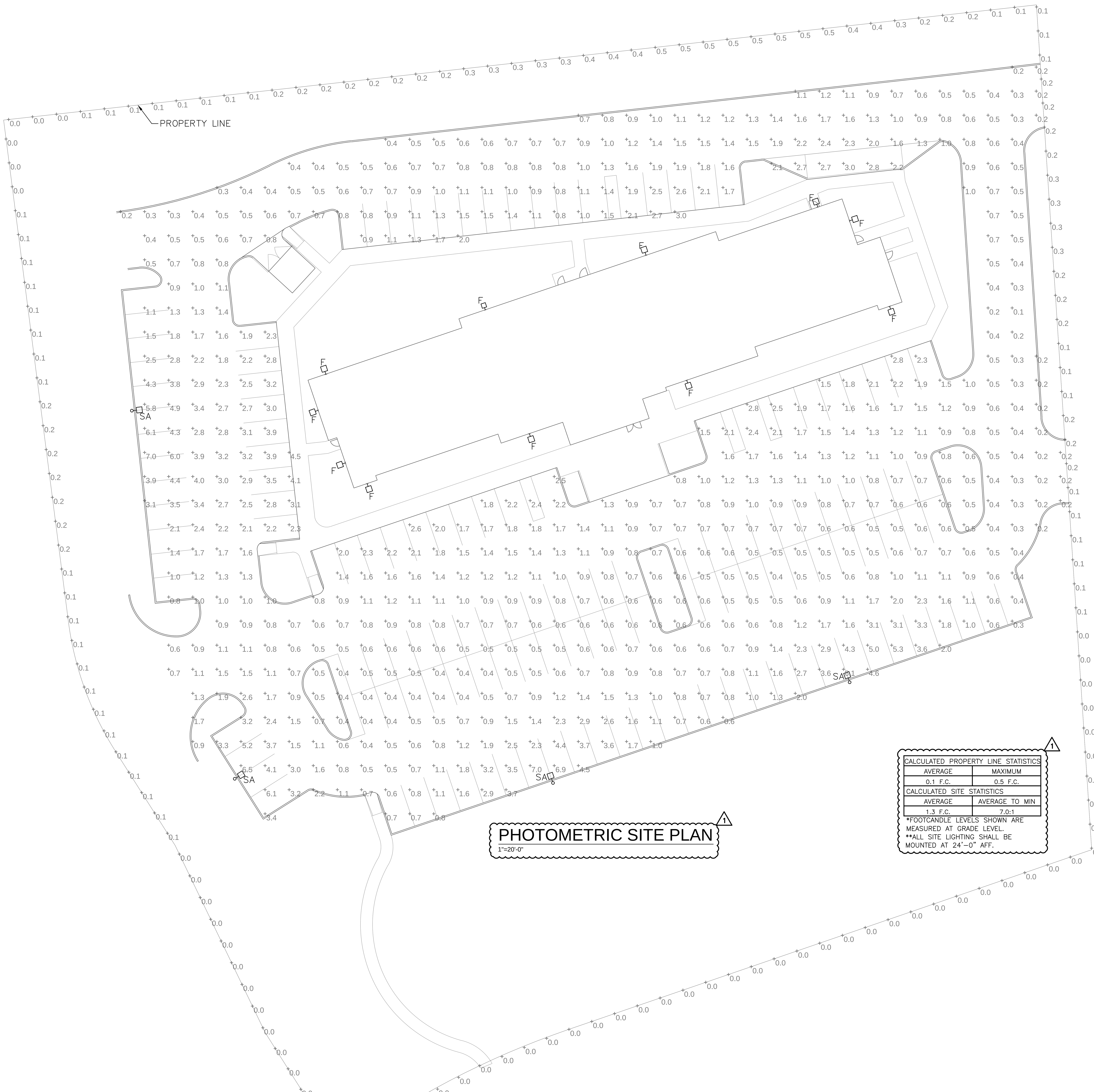

PHOTOMETRIC SITE PLAN

1"=20'-0"

CALCULATED PROPERTY LINE STATISTICS	
AVERAGE	MAXIMUM
0.1 F.C.	0.5 F.C.
CALCULATED SITE STATISTICS	
AVERAGE	AVERAGE TO MIN
1.3 F.C.	7.0:1

*FOOTCANDLE LEVELS SHOWN ARE MEASURED AT GRADE LEVEL.
**ALL SITE LIGHTING SHALL BE MOUNTED AT 24'-0" AFF.

3/23/2015 specSheet.php.html

WPLED104

RAB LIGHTING

LED 104W Wallpacks. 3 cutoff options. Patent Pending thermal management system. 100,000 hour L70 lifespan. 5 Year Warranty.

Color: Bronze Weight: 26.0 lbs

Project:	Type:
Prepared By:	Date:

Driver Info

Type:	Constant Current
120V:	0.95A
208V:	0.59A
240V:	0.51A
277V:	0.44A
Input Watts:	113W
Efficiency:	92%

LED Info

Watts:	104W
Color Temp:	5100K (Cool)
Color Accuracy:	69 CRI
L70 Lifespan:	100,000
LM79 Lumens:	10,010
Efficacy:	88 LPW

Technical Specifications

Listings

UL Listing:
UL Suitable for Wet Locations as Uplight and Downlight Wall Mount Only.

IESNA LM-79 & LM-80 Testing:
RAB LED Luminaires have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80, and have received the Department of Energy "Lighting Facts" label.

DLC Listed:
This product is on the Design Lights Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities.

Construction

IP Rating:
Ingress Protection rating of IP66 for dust and water.

Ambient Temperature:
Suitable for use in 40°C (104°F) ambient temperatures.

Thermal Management:
Superior thermal management with external Air-Flow fins.

Housing:
Precision die-cast aluminum housing, door frame arm and wall bracket.

Mounting:
Die-cast aluminum wall bracket with (5) 1/2" conduit openings with plugs. Two-piece bracket with tether for ease of installation and wiring.

Arm:
Die-cast aluminum with wiring access plate.

Cutoff:
Standard (15°)

Lens:
Tempered glass.

Reflector:
Specular vacuum metallized polycarbonate.

Gaskets:
High-temperature silicone.

Finish:
Our environmentally friendly polyester powder coatings are formulated for high-durability and long-lasting color, and contains no VOC or toxic heavy metals.

Green Technology:
Mercury and UV free, and RoHS compliant.

LED Characteristics

LEDs:
Four multi-chip, high-output, long-life LEDs.

Lifespan:
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations.

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent fixture-to-fixture color.

Color Stability:
LED color temperature is warrantied to shift no more than 200K in CCT over a 5 year period.

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377.2011.

Electrical

Driver:
Constant current, Class 1, 100-277V, 50/60 Hz, 4kV Surge Protection, 700mA, 100-277V = 0.95A, Power Factor 99.2%.

THD:
5.7% at 120V, 10.4% at 277VOther

Equivalency:
The WPLED104 is Equivalent in delivered lumens to a 400W Metal Halide Wallpack.

California Title 24:
See WPLED104/BL for a 2013 California Title 24 compliant product. Any additional component requirements will be listed in the Title 24 section under technical specifications on the product page.

Patents:
The design of the WPLED104 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish.

Need help? Tech help line: 888 RAB-1000 Email: sales@rabweb.com Website: www.rabweb.com Page 1 of 2

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LED AREA LIGHTS - AEROMAX™ MEDIUM (XAMU)

Crossover® LED LIGHTING TECHNOLOGY

US patent 7828456, 7952293, 8002428 and CAN 2693131 & 2701653 and US & Int'l. patents pending

DOE LIGHTING FACTS
Department of Energy has verified representative product test data and results in accordance with its Lighting Facts Program. Visit www.lightingfacts.com for specific catalog strings.

SMARTTEC™ - LSI drivers feature integral sensor which reduces drive current, when ambient temperatures exceed rated temperature.

ENERGY SAVING CONTROL OPTIONS – DIM – 0-10 volt dimming enabled with controls by others. BLS – Bi-level switching responds a 120-277V signal from separate controller or sensor (by others). Low light level decreased to 30% maximum drive current.

OCCUPANCY SENSOR (IMS) - Optional internal passive infrared motion sensor activates switching of luminaire light levels. High level light activated and increased to full bright in 1-2 seconds upon detection of motion. Low light level (30% maximum drive current) activated when target zone is absent of motion activity for ~ 2 minutes and ramps down (10-15 sec.) to low level. Sensor located on the front of optical assembly. Sensor optic has a detection cone of approximately 45°. Examples of detection - occurs 30' out from a 30' mounting height pole.

EXPECTED LIFE - Minimum 60,000 hours to 100,000 hours depending upon the ambient temperature of the installation location. See LSI web site for specific guidance.

LEDS - Select high-brightness LEDs in Cool White (5000K nominal) or Neutral White (4000K nominal) color temperature. 70 CRI (nominal).

DISTRIBUTION/PERFORMANCE - Types 3, FT and 5. Exceptional uniformity creates bright environment at lower light levels. Improved backlight cutoff minimizes light trespass.

HOUSING - One-piece, die-formed aluminum, weather-tight housing contains factory prewired driver and field connections. Extruded one-piece EPDM gasketed wiring access door (with safety lanyard) located underneath and utilizes tool-less thumbscrew fastener.

OPTICAL UNIT - Clear tempered flat glass lens sealed to aluminum optics housing creates an IP67 rated, sealed optical unit (includes pressure-stabilizing breather). Optical unit is recessed into housing cavity and sealed to the housing with extruded one-piece EPDM gasket. Optical unit lanyard serves dual purposes of safety and provides positive ground between unit and housing.

MOUNTING - Tapered rear design allows fixtures to be mounted in a quad pattern without the need for extension arms. Use with 3" reduced drilling pattern on round and square poles. A round pole plate (X4RPP, X5RPP) is required for mounting to round poles. Wall mount available by ordering wall mounting bracket (BKS-XBO-WM-*-CLR). See Accessory Ordering Information chart for all brackets.

ELECTRICAL - A terminal block for attachment of incoming primary wiring is supplied. Two-stage surge protection (including separate surge protection built into electronic driver) meets IEEE C62.41.2-2002, Location Category C. Available with universal voltage power supply 120-277VAC (50/60Hz input), and 347-480 VAC. Optional twistlock photocell receptacle is available. Photocell must be ordered separately.

LIGHT OUTPUT - XAMU

		# of LEDS	Lumens (Nominal) Type 3	Type FT	Type 5	Watts (Nominal)
Cool White	SS	128	13500	14100	12100	139
Cool White	HO	128	16500	17300	14800	176
Neutral White	SS	128	12400	13200	11200	139
Neutral White	HO	128	15000	15800	12500	176

LED Chips are frequently updated therefore values may increase.

DRIVER - Available in SS (Super Saver) and HO (High Output) drive currents (Drive currents are factory programmed). Components are fully encased in potting material for IP65 moisture resistance. Driver complies with IEC and FCC standards. Driver and key electronic components can easily be accessed.

OPERATING TEMPERATURE - -40°C to +50°C (-40°F to +122°F).

FINISH - Fixtures are finished with LSI's DuraGrip® polyester powder coat finishing process. The DuraGrip finish withstands extreme weather changes without cracking or peeling.

WARRANTY - LSI LED fixtures carry a limited 5-year warranty.

PHOTOMETRICS - Please visit our web site at www.lsi-industries.com for detailed photometric data.

SHIPPING WEIGHT (in carton) - 39 lbs. / 17.7 Kg

LISTING - ETL listed to U.S. and International safety standards. Suitable for wet locations. For a list of the specific products in this series that are DLC listed, please consult the LED Lighting section of our website or the Design Lights website at www.designlights.org.

This product, or selected versions of this product, meet the standards listed below. Please consult factory for your specific requirements.

American Innovation American Made ARRA Funding Compliant DLC Intertek wet location RoHS COMPLIANT FC IP65 IP67

Fixtures comply with ANSI C136.31-2010 American National Standard for Roadway Lighting Equipment - Luminaire Vibration 3G requirements.

LSI Industries™ Project Name ____ Fixture Type ____ Catalog # ____

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B|R|R

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Issues & Revisions

NO.	DATE	DESCRIPTION
1	12/17/15	REVISION #1

Project Name
WoodSpring Suites

Project Address
Rochester Hills, MI

WOODSPRING SUITES AN EXTENDED STAY HOTEL

Project Manager: AR
Checked By: AR
Drawn by: SS
Document date: 11/05/2015

Project No. 31000102

Professional Seal

PSP Submittal 11/5/15
City Review 12/01/15

Sheet Title
PHOTOMETRIC SITE PLAN

Sheet No.
ES1

Dec 17, 2015 – 9:21am – USER spencerschreiber
G:\Projects\Value Place Hotel\1520307 WoodSprings – Rochester Hills, MI\Sheets\ES-1 PHOTOMETRIC SITE PLAN.dwg