CHICAGO AVENUE

.6 + 2.5 + 2.8 + 2.6 + 2.1 + 1.8 + 1.6 + 1.4 + 1.3 + 1.1 + 0.8 + 0.6 + 0.4 + 0.3 + 0.2 + 0.1 + 0.1 + 0.1 + 0.0 +

1.7 + 7 + 2.9 + 2.6 + 2.0 + 1.7 + 1.6 + 1.4 + 1.3 + 1.1 + 0.8 + 0.6 + 0.4 + 0.3 + 0.2 + 0.1 + 0.1 + 0.1 + 0.0

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+0.0 +0.0 +0.1 +0.1 +0.2 +0.2 +0.3 +0.5 +0.7 +0.8 +0.4 +0.0 +0.0 +0.1 +0.1 +0.1 +0.2 +0.3 +0.4 +0.6 +0.7 +0.6 +0. +0.0 +0.0 +0.1 +0.1 +b.2 +0.2 +0.3 +0.5 +0.7 +0.9 +0.9 +0 Type AA (Dusk/Dawn) -+0.0 +0.0 +0.1 +0.1 +b.2 +0.2 +b.4 +0.6 +0.9 +1.1 +1.2 +1. Elev 122'-0" +0.0 +0.0 +0.1 +0.1 +0.2 +0.2 +0.4 +0.7 +1.0 +1.3 +1.5 +1. +0.0 +0.0 +0.1 +0.1 +0.2 +0.3 +0.5 +0.8 +1.1 +1.5 +1.7 Type BB (Dusk/Dawn) -

WEST (2-STORY) BUILDING +0.0 +0.0 +0.1 +0.1 +0.2 +0.3 +0.5 +0.8 +1.1 +1.5 + +0.0 +0.0 +0.1 +0.1 +b.2 +0.3 +b.4 +0.7 +1.0 +1.4 +1.5

(Dusk/Dawn) Elev 112'-0" +0.0 +0.1 +0.1 +0.1 +0.2 +0.3 +0.6 +0.9 +1.2 +1.3 +0.6

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Type BB (Dusk/Dawn) -EAST (2-STORY) BUILDING Elev 122'-0"

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___0.0 __0.

___0.0 __0. +0.0 + 0.0

Exterior Site Lighting Calculation Plan

+0.0 +0.1 +0.1 +0.1 +0.1 +0.2 +0.2 +0.2 +0.3 +0.4 +0.5 +0.6 +0.7 +0.8 +0.9 +0.9 +0.8 +0.7 +0.8 +0.9 +0.9 +0.8 +0.7 +0.6 +0.6 +0.6 +0.6 +0.6 +0.6 +0.6 +0.6 +0.9

Min | Max/Min | Avg/Min Max 0.4 fc 3.7 fc 0.0 fc N/A N/A

GENERAL NOTES:

- REFER TO SHEET ELC.2 FOR FIXTURE SPECIFICATION SHEETS
- 2. ALL LIGHTING WILL BE CONTROLLED BY PHOTOCELL FOR (DUSK/DAWN) OPERATION FOR SECURITY PURPOSES
- 3. LIGHTING CALCULATIONS WERE COMPLETED UTILIZING VISUAL LIGHTING PROGRAM WITH ASSOCIATED, FIXTURE MANUFACTURE's, PUBLISHED IES FILES.
- 4. ALL CALCULATIONS WERE DONE BY THE ENGINEER OF RECORD.

Please include: height the lights are proposed to

INDEX TO EXTERIOR LIGHTING CALCULATION DRAWINGS

- EXTERIOR SITE LIGHTING POINT BY POINT CALCULATION AND STATISTICS
- LIGHTING FIXTURE SPECIFICATION SHEETS

DATE 22 October 2021 DRAWN BY msk CHECKED lmak **APPROVED REVISED**

SHEET

ease add PCD File No. PR-21-067



JOHN DAVIS DESIGN GROUP

> **ARCHITECTS INTERIORS PLANNERS**

176 TALAMINE COURT SUITE 100 COLORADO SPRINGS COLORADO 80907 P 719/528-1177 F 719/444-8409



KOHNERT ELECTRICAL ENGINEER's, INC. 911 S. 8th Street, Ste 200

Colorado Springs Co 80905 Phone (719) 633-2637 DO NOT SCALE

DRAWINGS FOR CONSTRUCTION **PURPOSES**

PROJECT NO. 202130

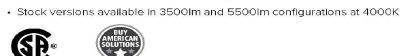
DATE: 10-22-21 LOCATION: Falcon Colorado PROJECT: Kenshin Martial Arts Complex _CATALOG #: RWL1 48L 4K7 4W UNV

RWL1/RWL2 LED WALLPACK

FEATURES

 Low profile LED wall luminaire with a variety of IES distributions for lighting applications such as retail, commercial and industrial building mount

- ${\boldsymbol \cdot}$ Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™, Wiscape and 7-Pin with networked controls
- Battery Backup options available for emergency code compliance Quick-mount adapter allows easy installation/maintenance
- 347V and 480V versions for industrial applications and Canada





CONTROL TECHNOLOGY

SPECIFICATIONS CONSTRUCTION

Die-cast housing with hidden vertical heat

- fins that are optimal for heat dissipation while keeping a clean smooth outer surface Corrosion resistant, die-cast aluminum housing with powder coat paint finish
- Powder paint finish provides durability in outdoor environments. Tested to meet 1000 hour salt spray rating. OPTICS
- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 48 or 160 midpower LEDs • 3000K, 4000K or 5000K (70 CRI/80 CRI)
- Zero uplight distributions LED optics provide IES type II, III and IV distributions. Type II only available in RWL2 configurations.
- INSTALLATION Quick-mount adapter provides easy installation to wall or to recessed junction boxes (4" square junction box)
- · Designed for direct j-box mount.
- Integral back box contains 1/2" conduit hubs Integral back box standard with Dual Driver, Dual Power Feed, NX, Wiscape and battery
- versions (battery versions for RWL1 only) **ELECTRICAL**
- dimming drivers
- 120V-277V universal voltage 50/60Hz 0-10V 347V and 480V dimmable driver option for all

CONTROLS (CONTINUED)

- · Dual Driver and Dual Power Feed options creates product configuration with 2 internal drivers for code compliance when combining control and electrical options as some combinations may not
- CERTIFICATIONS Listed to UL1598 and CSAC22.2#250.0-24 for

operate as anticipated depending on your

wet locations IP65 rated housing

application.

 This product qualifies as a "designated country construction material" per FAR 52.225-11 Buy American-Construction Materials under Trade Agreements effective

04/23/2020. See Buy American Solutions

WARRANTY 5 year limited warranty

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

KEY DATA	
Lumen Range	1,000–19,500
Wattage Range	10–155
Efficacy Range (LPW)	118–148
Fixture Projected Life (Hours)	L70>60K
Weights lbs. (kg)	6.5/16.5 (2.9/7.5)

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wattages above 35W.

PRL SERIES - WALLPACK

Cut off and Refractor Form Wall Pack

Field Selectable Wattages from 18 to 60 Watts

provides a further throw and higher angle light

Lumen Range from 2500-8500 lumens

applications requiring no up-light

HID glass refractor wall packs.

SPECIFICATIONS

Die-cast aluminum housing

Suitable for Outdoor Use

4000K CCT/70 CRI

2500 to 8500 Lumens

Efficacy up to 144 LPW

ORDERING GUIDE

PRL-R-LS-4K

PRL-C-LS-4K

STOCK ORDERING INFORMATION

Two Styles available - Cut Off and Refractor

• Strong UV Stabilized Polycarbonate Lens

Dark bronze texture powder coat paint finish

provides durable and lasting appearance

CONSTRUCTION

FEATURES

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LED wall luminaire - shielded with forward throw

This wall mounted LED luminaire features a forward throw light distribution and is designed for the general illumination of pathways and walkways from

various mounting heights. Downlight applications only. Luminaire housing constructed of die-cast marine grade, copper free (≤0.3% copper content) A360.0 aluminum alloy Clear safety glass with optical texture

High temperature silicone gasket Mechanically captive stainless steel fasteners NRTL listed to North American Standards, suitable for wet locations Protection class IP64

Weight: 2.7 lbs Electrical 120-277VAC Operating voltage Minimum start temperature LED module wattage 7.9 W System wattage 11 W Controllability 0-10V dimmable Color rendering index Ra > 80775 lumens (3000K) Luminaire lumens Lifetime at Ta = 15° C >500,000 h (L70)

Lifetime at Ta = 25° C LED color temperature ■ 4000K - Product number + K4 □ 3500K - Product number + K35 □ 3000K - Product number + **K3**

□ 2700K - Product number + **K27**

 $\ensuremath{\mathbf{BEGA}}$ can supply you with suitable LED replacement modules for up to 20 years after the purchase of LED luminaires - see website for details

353,000 h (L70)

All BEGA standard finishes are matte, textured polyester powder coat with minimum 3 mil thickness. Available colors $\ \square$ Black (BLK) $\ \square$ White (WHT) $\ \square$ RAL: ☐ Bronze (BRZ) ☐ Silver (SLV) ☐ CUS:

DATE: 10-22-21 LOCATION: Falcon Colorado

TYPE: BB PROJECT: Kenshin Martial Arts Complex

CATALOG#: RWL1 48L 4K7 4W UNV

ORDERING GUIDE

Example: RWL1-48L-10-3K7-2-UNV-BLS-E

ORDERING INFORMATION

CATALOG #

RATIO WALI

RWL1/RWL2 LED WALLPACK

4K7 4000K, 70 CF 48L-15 2,000 Lumers:4 IES TYPE III **120** 120V BLS Black Gloss Smooth 48L-20 2,500 Lum ens⁴ 5K7 5000K, 70 CRI 4W IES TYPE IV 208 208V DBT Dark Bronze Matte Textured 48L-25 3,500 Lumens4 240 240V DBS Dark Bronze Gloss Smooth 4,500 Lumens 48L-35 **277** 2//V GTT Graphite Matte Textured **347** 347V LGS Light Grey Gloss Smooth 48L-45 160L-45 6,500 Lumens 480 480V LGT Light Grey Matte Textured PSS Platinium Silver Smooth 160L-50 7,500 Lumens WHT White Matte Textured 160L-65 9,500 Lumens WHS White Gloss Smooth 160L-80 11,000 Lumens 160L-95 13,000 Lumens 160L-115 15,000 Lumens 160L-135 17.500 Lumens 160L-155 19,500 Lumens

CCT/CRI

4000K/70CRI 120-277V

4000K/70CRI 120-277V

4000K/70CRI 120-277V

4000K/70CRI 120 277V

Emergency Battery Backup^{78,9} NXSPW_F NX Wireless, PIR Occ. Sensor, Daylight Harvesting^{4,57} NX, PIR Occ. Sensor, Daylight Harvesting 1,67 EH Emergency Battery w/ Heater Wireless Controls, wiSCAPE*26

2DR Dual Driver⁴⁸ 2PF Dual Power Feed^{4,6} Remote control programmable line voltage sensor PC Button Photocontrol⁸ Remote control programmable line voltage sensor34

Wattage LED Count

witiCAPE Gateway required for system programming. Specific voltage selection is required Replace "_" with "14" for up to 14' mounting height, "40" for up to 40' mounting height This item is located in the integral backbox which will be automatically added onto the fixture if chosen.

Only available with RWL2

This item is located in the integral backbox for RWLI configurations only. Option only available at 120 or 277V Only available with RWL1

Distribution Finish

Type III

Type III

Type IV Wide

Dark Bronze Textured

Dark Bronze Textured

Dark Bronze Textured

HUBBELL Lighting

Type IV-Wide Dark Brorize Textured

ENGINEER's, INC. 911 S. 8th Street, Ste 200 Colorado Springs Co 80905

KOHNERT ELECTRICAL

Phone (719) 633-2637

C:\Documents and Settings\jdavis\Desktop\John Davis Color Logo.jpg

JOHN DAVIS

ARCHITECTS

176 TALAMINE COURT

COLORADO SPRINGS

COLORADO 80907 P 719/528-1177

F 719/444-8409

INTERIORS

PLANNERS

SUITE 100

DESIGN GROUP

DO NOT SCALE DRAWINGS FOR CONSTRUCTION **PURPOSES**

THESE DRAWINGS ARE THE PROPERTY OF JDDG ARCHITECTS. THEY SHALL BE USED FOR THE SOLE PURPOSE OF CONSTRUCTING THIS PROJECT. THEY SHALL NOT BE REPRODUCED AND USED FOR THE PURPOSE OF CONSTRUCTION DOCUMENTS FOR ANY OTHER PROJECTS.

Type: CC BEGA Product: 33815 Project: Kenshin Marshal Arts Complex - Falcon, Colorado Modified: No Modifications

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LED wall luminaire · shielded with forward throw

7.9W $4\frac{3}{8}$ $7\frac{1}{2}$ $4\frac{3}{8}$

BEGA 1000 BEGA Way, Carpinteria, CA 93013 (805)684-0533 info@bega-us.com Due to the dynamic nature of lighting products and the associated technologies, luminaire data on this sheet is subject to change at the discretion of BEGA North America. For the most current technical data, please refer to bega-us.com © copyright BEGA 2018

Ubdated 09/10/18





DRAWN BY CHECKED APPROVED REVISED

PROJECT NO.

DATE

202130

lmak

msk

22 October 2021

Z:\2021\2021.037\00Planning Submittal\ 2021.037 ELC Drawings 10-22-21.dwg Oct 22, 2021 - 10:54am

 $@\ 2021 \ Hubbell\ Outdoor\ Lighting, a\ division\ of\ Hubbell\ Lighting, Inc.\ Specifications\ subject\ to\ change\ without\ notice. \\ 701\ Millennium\ Blvd\ \bullet\ Greenville,\ SC\ 29607\ /\ Tel\ 864.678.1000\ /\ Website\ www.hubbelloutdoor.com$ Page 1/4 Rev. 04/23/21 PRLLED-SPEC

2500-8500

139-144

>60K 5.29 (2.4)

STOCK ORDERING INFORMATION

3500lm

3500lm

5500lm

5500lm

SCPREMOTE Order at least one per project location to program and control

Accessory for conduit entry!

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

Catalog Number

RWL1-48L-25-4K-3

RWL1-48L-45-4K-3

WP-BB-XXX

1 replace "xxx" with color option

Page 2/7 Rev 02/15/21

CONTROLS

RWL1-48L-25-4K-4W

RWL1-48L-45-4K-4W

Catalog Number Description

8 Ratio Family 8 Ratio Area 8 Ratio Flood

RELATED PRODUCTS

 Drivers have greater than .90 power factor and less than 20% Total Harmonic Distortion Driver RoHS and IP66 Field replaceable surge protection device provides 20kA protection meeting ANSI/ IEEE C62.41.2 Category C High and Surge Location Category C3; Automatically takes fixture off-line for protection when device is

• Ambient operating temperature -40°C to 40°C

ELECTRICAL (CONTINUED)

 Dimming drivers are standard and dimming leads are extended out of the luminaire unless control options require connection to the dimming leads. Must specify if wiring leads are to be greater than 6" standard.

CONTROLS Photo control, occupancy sensor and wireless available for complete on/off and dimming control Button photocontrol is suitable for 120-277V

operation 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately) NX Distributed Intelligence[™] available with in fixture wireless control module, features

wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor

dimming and occupancy sensor

 Integral Battery Backup provides emergency lighting for the required 90 minute path of egress Battery Backup suitable for operating temperatures -25°C to 40°C

DATE: 10-22-21 LOCATION: Falcon, Colorado

CATALOG #: PRL-C-LS-4K (18W) (2537 Lumen)

PRL-R-LS

TYPE: AA PROJECT: Kenshin Martial Arts Complex

PRL-C-LS

RELATED PRODUCTS

8 RWL1 Ratio Wall 8 WGH Switchable 8 PRS

CERTIFICATIONS

FCC Title 47 Part 15

DLC Premium

WARRANTY

IP65

Listed to UL1598 for use in wet locations

DLC® (DesignLights Consortium)

at www.designlights.org

5 year limited warranty

additional information

Lumen Range

Wattage Range Efficacy Range (LPW)

Fixture Projected Life (Hours)

Weights lbs. (kg)

See <u>HLI Standard Warranty</u> for

KEY DATA

Qualified, Please refer to the DLC

website for specific product qualifications



• Wall Mounted Stylish Fixture contemporary architectural form provides

an updated appearance compared to traditional HID wall packs

Low profile LED wall luminaire for lighting applications such as retail, commercial and industrial building mount

Type III Distribution for Full Cut Off configuration, (PRL-C) for

Type IV Distribution for Refractor Form configuration, (PRL-R)







ELECTRICAL

4 kV Surge

INSTALLATION

0-10 Volt Dimming Driver

Wattage (lumen) switchable

Universal voltage driver is 120-277 Volt

• Ambient Operating Temperature -40°C to 40°C

• Mounts to standard round 3-1/2" junction box

Wattage (lumens) easily field adjustable by

70 4000K 2553-8510 Type IV 18-60 Watts 120-277V 142-144 5.29 lbs Bronze

70 4000K 2537-8460 Type III 18-60 Watts 120-277V 139-141 5.29 lbs Bronze

and can be mounted direct to wall

opening cover with two screws