

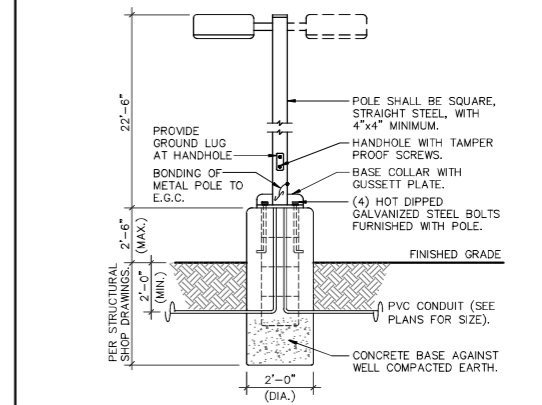
1 ELECTRICAL SITE LIGHTING PLAN
SCALE 1" = 30'-0"

LUMINAIRE SCHEDULE

1. PROVIDE 90 MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
2. MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE.
3. BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT, ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED WITH WRITTEN OWNER APPROVAL & AN ITEMIZED DEDUCT TO BASE BID.
4. ALTERNATE FIXTURE SELECTIONS MAY REQUIRE ADDITIONAL TIME FOR SUBMITTAL REVIEW & POSSIBLE ENGINEERING DESIGN CHANGES, TO BE BILLED TO THE CONTRACTOR.
5. PROVIDE MINIMUM 10 MINUTE TIME DELAY ON EMERGENCY FIXTURES WHEN HID AREA LIGHTING IS USED.

MARK	MANUFACTURER MODEL NUMBER	VOLTS	LAMPS CRI/CCT INPUT WATTS	REMARKS/MOUNTING
SA	U.S. ARCHITECTURAL LIGHTING RZR-PLD-II-M-80LED-875mA-40K-HS	MVOLTS	LED 216.0 WATTS	SINGLE LUMINAIRE POLE. REFER TO DETAIL THIS SHEET
SB	U.S. ARCHITECTURAL LIGHTING RZR-PLD-II-W-80LED-875mA-40K-HS	MVOLTS	LED 216.0 WATTS	SINGLE LUMINAIRE POLE. REFER TO DETAIL THIS SHEET
SC	PRESCOLITE LFR-6RDS-M-20.35K8WD-DM1_LFR-6RDS-1-S	MVOLTS	LED 17.0 WATTS	WET LOCATION 6" ROUND RECESSED DOWNLIGHT
SW1	U.S. ARCHITECTURAL LIGHTING RZR-WM3-PLD-IV-FT-60LED-1050mA-40K	MVOLTS	LED 193.0 WATTS	WALL MOUNT LIGHT FIXTURE MOUNT AT +25'-0" AFG
SW2	U.S. ARCHITECTURAL LIGHTING RZR-WM3-PLD-II-M-60LED-1050mA-40K	MVOLTS	LED 193.0 WATTS	WALL MOUNT LIGHT FIXTURE MOUNT AT +25'-0" AFG

POLE MOUNTED FIXTURE DETAIL



FIXTURE TYPE 'SA', 'SB'
THE POLE CONCRETE BASE DETAIL IS SHOWN FOR ELECTRICAL ROUGH-IN AND SHALL NOT BE USED FOR THE ACTUAL BASE CONSTRUCTION. POLE BASE SHALL BE DESIGNED BY A REGISTERED STRUCTURAL PROFESSIONAL ENGINEER AND CONSTRUCTED PER STRUCTURAL ENGINEERS SEALED CONSTRUCTION DOCUMENT.
NOTE: ELECTRICAL CONTRACTOR SHALL BOND METAL POLE PER NEC 410.30(B)(5) AS SHOWN IN DETAIL.



4600 E INDIAN SCHOOL RD.
PHOENIX, ARIZONA 85018
602.840.2929 2929.COM



LONGBOW 202 SHELL BUILDING
5818 E. MCDOWELL ROAD
MESA, AZ 85215

FIRST ISSUED: 10/30/24

REVISIONS

No.	DATE	DESCRIPTION
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PROJECT NO: 25154.00
DRAWN BY: RG/RS
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ELECTRICAL SITE LIGHTING PLAN

DR1.0

DESIGN CODES
IECC: 2015 NEC: 2017

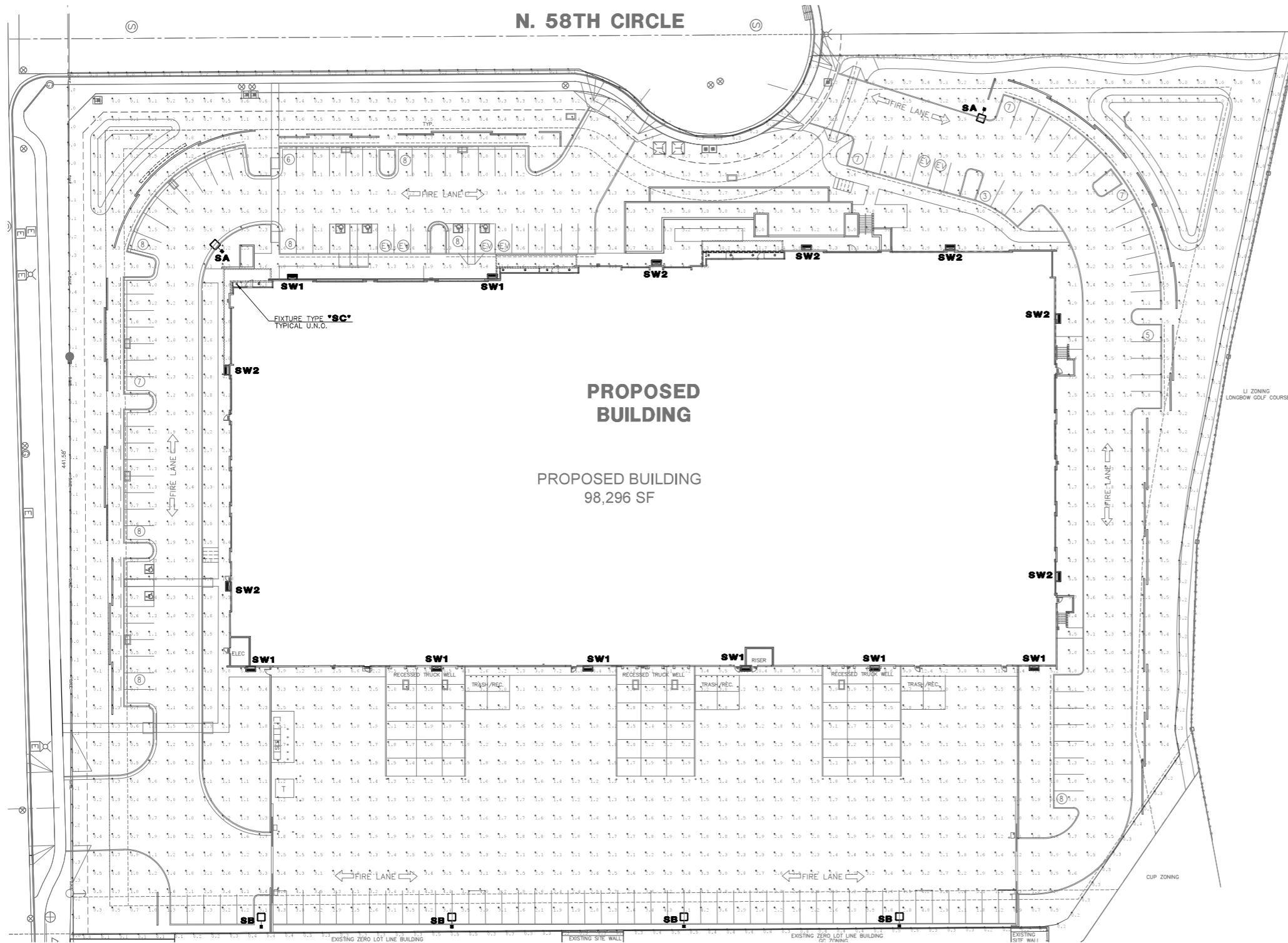
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PRELIMINARY NOT FOR CONSTRUCTION

Project Contact/Designer: RANDY GROTHAUS
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HAWKINS DESIGN GROUP INC.
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IF DRAWING IS NOT PLOTTED AT 24 X 36 THEY ARE NOT FULL SIZE

PRELIMINARY - NOT FOR CONSTRUCTION



1 ELECTRICAL SITE PRE-PHOTOMETRICS PLAN
 SCALE 1" = 30'-0"

NOTE FOR EXTERIOR FIXTURES:
 PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY NO LESS THAN 50% DURING POST-CURFEW TO COMPLY WITH IECC 2015 405.2.6. EXTERIOR LIGHTING CONTROLS.

Qty	Label	Symbol	[MANUFAC]	Description	MH	Lumens	LLF	Watts	Total Watts	BUG Rating
2	SA	■	U.S. ARCHITECTURAL LIGHTING	RZR-PLD-III-M-80LED-875mA-40K-HS	25'	20009	0.900	215.9	431.8	B1-U0-G4
4	SB	■	U.S. ARCHITECTURAL LIGHTING	RZR-PLD-III-W-80LED-875mA-40K-HS	25'	19584	0.900	215.9	863.6	B1-U0-G4
10	SC	○	PRESCOLITE	LFR-GRDS-M-20L35K8WD-DM1 LFR-GRDS-T-S	16'	1395	0.900	16.428	164.28	B2-U0-G0
8	SW1	■	U.S. ARCHITECTURAL LIGHTING	RZR-WM3-PLD-IV-FT-60LED-1050mA-40K	25'	21446	0.900	192.3	1538.4	B3-U0-G4
7	SW2	■	U.S. ARCHITECTURAL LIGHTING	RZR-WM3-PLD-III-M-60LED-1050mA-40K	25'	23721	0.900	192.3	1346.1	B3-U0-G4

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.17	0.5	0.0	N.A.	N.A.
Site Planar	Illuminance	Fc	2.09	21.1	0.0	N.A.	N.A.

DESIGN CODES
 IECC: 2015 NEC: 2017

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LONGBOW 202 SHELL BUILDING
 5818 E. MCDOWELL ROAD
 MESA, AZ 85215

FIRST ISSUED: 10/30/24

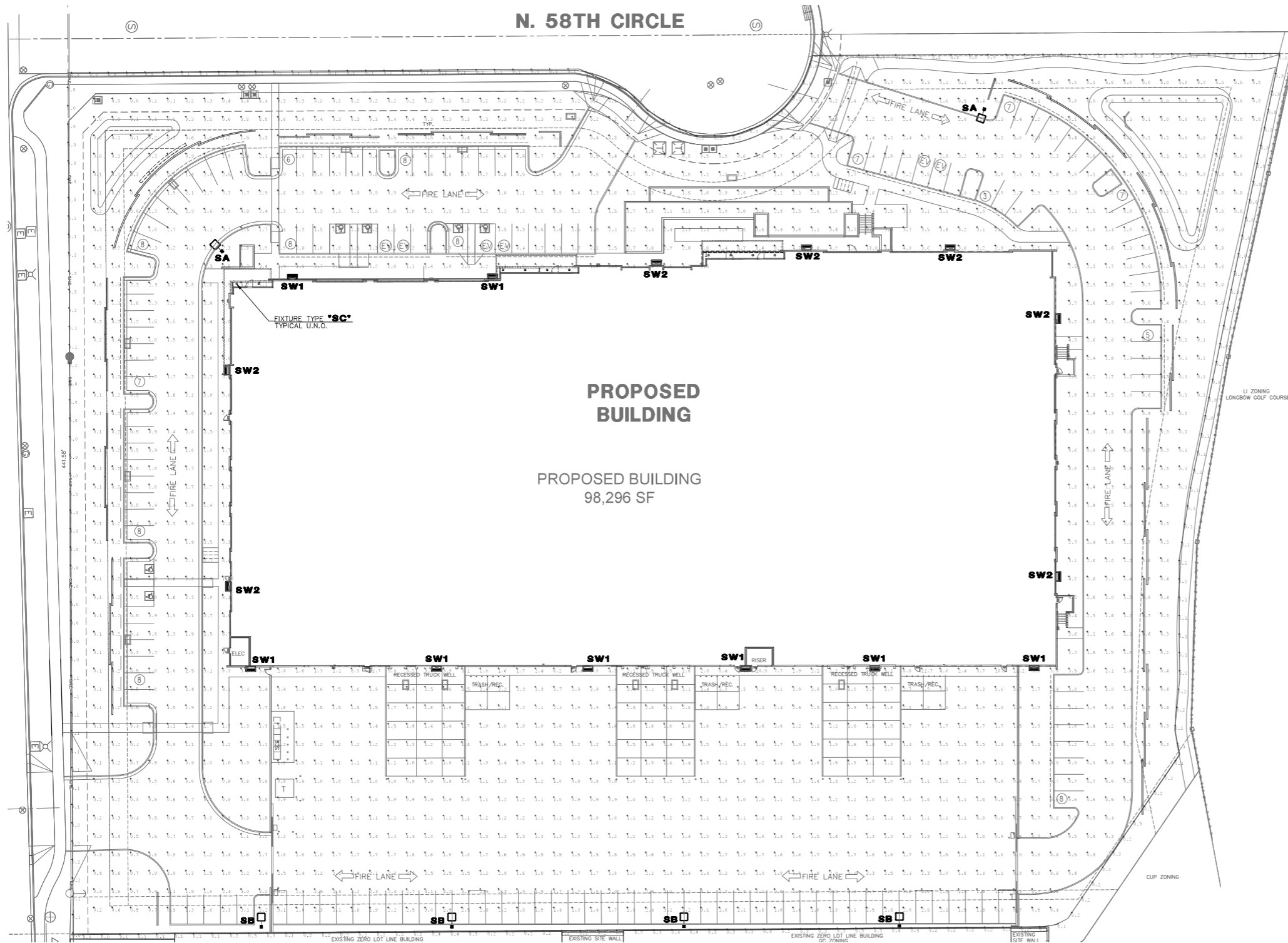
REVISIONS		
No.	DATE	DESCRIPTION

PROJECT NO: 25154.00
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 CHECKED BY: AG
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ELECTRICAL SITE
PRE-PHOTOMETRICS
LIGHTING PLAN

DR2.0

PRELIMINARY - NOT FOR CONSTRUCTION



1 ELECTRICAL SITE POST-PHOTOMETRICS PLAN
SCALE 1" = 30'-0"

NOTE FOR EXTERIOR FIXTURES:
PRE-CURFEW DESIGN HOURS SHALL BE DEFINED FROM NOT LATER THAN ONE HOUR AFTER BUSINESS CLOSING AND POST-CURFEW DESIGN HOURS SHALL BE DEFINED AS NOT EARLIER THAN ONE HOUR BEFORE BUSINESS OPENING. ALL EXTERIOR LIGHTS SHALL BE DIMMED BY NO LESS THAN 50% DURING POST-CURFEW TO COMPLY WITH IECC 2015 405.2.6. EXTERIOR LIGHTING CONTROLS.

Qty	Label	Symbol	[MANUFAC]	Description	MH	Lumens	LLF	Watts	Total Watts	BUG Rating
2	SA	■	U.S. ARCHITECTURAL LIGHTING	RZR-PLD-III-M-80LED-875mA-40K-HS	25'	20009	0.650	215.9	431.8	B1-U0-G4
4	SB	■	U.S. ARCHITECTURAL LIGHTING	RZR-PLD-III-W-80LED-875mA-40K-HS	25'	19584	0.650	215.9	863.6	B1-U0-G4
10	SC	○	FRESCOLITE	LFR-GRDS-M-20L35K9WD-DM1 LFR-GRDS-T-S	16'	1995	0.650	16.428	164.28	B2-U0-G0
8	SW1	■	U.S. ARCHITECTURAL LIGHTING	RZR-WM3-PLD-IV-FT-60LED-1050mA-40K	25'	21446	0.650	192.3	1538.4	B3-U0-G4
7	SW2	■	U.S. ARCHITECTURAL LIGHTING	RZR-WM3-PLD-III-M-60LED-1050mA-40K	25'	23721	0.650	192.3	1346.1	B3-U0-G4

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Property Line	Illuminance	Fc	0.12	0.4	0.0	N.A.	N.A.
Site Planar	Illuminance	Fc	1.54	19.6	0.0	N.A.	N.A.

DESIGN CODES
IECC: 2015 NEC: 2017

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FIRST ISSUED: 10/30/24

REVISIONS		
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ELECTRICAL SITE
POST-PHOTOMETRICS
LIGHTING PLAN

DR3.0

PRELIMINARY - NOT FOR CONSTRUCTION

prescolite
LFR-6RDS
LITEFRAME 6" ROUND SHALLOW DOWNLIGHT

DATE: _____ LOCATION: _____
TYPE: **SC** PROJECT: _____
CATALOG #:



FEATURES

- 1" x 1" ultra downlight covering 3000-3000 lumens
- Direct install from below ceiling for New Construction or Remodel applications
- Optional housing accessories available
- Four beam distributions
- 2700K-5000K, 80- and 90+ CRI (2 SOCM)
- Dimming protocols include 0-10V, Phase Forward/Reverse, DALI, DMX, and Lutron EcoSystem
- NA Lighting Controls wired and wireless controls capability available

CONTROL TECHNOLOGY

SPECIFICATIONS

CONSTRUCTION

- Standard Future Module designed for Non-IC, Direct Install construction
- Optional Non-IC frame or IC housing available with pre-installed bar hangers
- Die cast aluminum future module support ring with spring steel clips for secure mounting to ceiling
- Driver B-box can be installed and accessed from below the ceiling as direct install or easily snap on to optional housing trim enclosure
- Light Engine connections use pre-terminated (CMT) cable

OPTICS

- High purity spun aluminum reflector, self-flanged
- 8" visual cutoff to source image and 40" cutoff to source
- Special or Semi-Specular anodized or White painted core reflector finish/color
- Painted flange options in White or Black

ELECTRICAL

- Class 2 on-board LED with 2 SOCM
- Multiple CCTs, 80+ or 90+ CRI
- Long LED life: L90 at >50,000 hours (TM-2)
- Universal voltage 120-277V drive, 347V optional
- UL Class 2, inherent short circuit and overload protection
- Facile-free dimming options in a wide range of protocols from 1% to 10% performance
- 0-10V, Phase (Forward/Reverse), DALI, DMX, and Lutron EcoSystem options
- NA Lighting Controls provides options for standalone and networked functionality with wired or wireless connectivity for non-wired deployments
- Remote emergency battery option available

CERTIFICATIONS

- c-ULus certified to UL 1598
- For 30L Market spacing required 30" future center to center, 36" future center to building member, 0.15" above future
- Suitable for damp locations
- EMC: Certified under UL 924 standard for emergency lighting and cover equipment
- EMR: Emergency battery packs are California Energy Commission (CEC) Test 20 Compliant
- Approved for B-B with cut No. 02460
- UL ETL listed for 30" and 36" spacing

WARRANTY

- 3 year warranty

KEY DATA

Lumen Range	3000-3000
Wattage Range	8-20
Efficiency Range (lm/W)	96-126
Reported Life (Hours)	100,000-500,000
Input Current (mA)	60-240 (0.70A)

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currentlighting.com/prescolite Page 3 of 9 Rev: 02/2023
#NLS_LFR-6RDS_Spec_203

prescolite
LFR-6RDS
LITEFRAME 6" ROUND SHALLOW DOWNLIGHT

DATE: _____ LOCATION: _____
TYPE: _____ PROJECT: _____
CATALOG #:

Example: LFR-6RDS-M-90L350B-WD-DM-LFR-6RDS-T-S-LFR-6RDS

ORDERING GUIDE

Example: LFR-6RDS-M-90L350B-WD-DM-LFR-6RDS-T-S-LFR-6RDS

FIXTURE MODULE

LFR-6RDS-M	Lumen Output	CCT	OP	Dist.	Other Options	Control Options	Voltage	Module Options
LFR-6RDS-M	3000	2700K	2700K	8-90+	None	None	120V/277V	None
LFR-6RDS-M	3000	3000K	3000K	8-90+	None	None	120V/277V	None
LFR-6RDS-M	3000	3500K	3500K	8-90+	None	None	120V/277V	None
LFR-6RDS-M	3000	4000K	4000K	8-90+	None	None	120V/277V	None
LFR-6RDS-M	3000	5000K	5000K	8-90+	None	None	120V/277V	None

HOUSING OPTIONS (Rings separately)

Accessories

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SW1 & SW2

SOLID STATE AREA LIGHTING

RAZAR WALLMOUNT LED

SPECIFICATIONS

OPTICAL HOUSING

Heavy cast low copper aluminum (A356 alloy <0.2% copper) assembly with integral cooling fins. The Optical Panel mounting surface is milled for surface variance $\pm .002$ to facilitate thermal transfer of heat to housing and cooling fins. The Optical Housing both to the Electrical Housing forming a unified assembly. The minimum wall thickness is .188".

ELECTRICAL HOUSING

Heavy cast low copper aluminum (A356 alloy ± 0.2 copper) assembly. Minimum wall thickness is .188". Future Mounting Plate affixes to mounting surface over a recessed J-box. Electrical Housing anchors on the top edge of the Mounting Plate and stainless steel received socket head screws tighten the Electrical Housing to the Mounting Plate from the bottom.

PLED OPTICAL MODULES

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad and enclosed by an LED reflector. LED optics completely seal each individual emitter to meet on P66 rolling. The asymmetric distributions, have a micro-reflector inside the reflector which re-directs the house side emitter output towards the steel side and functions as a house side shading element. Reflector are injection molded H 2 acrylic lens-LED separator is cast to the PCB over an emitter and of reflector are retro-reflective by an aluminum frame. Any one Panel or group of Panels in a luminaire, have the same optical pattern. LED reflectors produce Type III, and Type IV beam distributions as well as other specialty asymmetric distributions. Panels are field replaceable and field rotatable in 90° increments.

LED DRIVERS (S)

Constant current electronic with a power factor of > .99 and a minimum operating temperature of -40°F/-40°C. Drivers (S) are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, heat down by universal mounting hardware. Drivers are housed in a metal block to facilitate wiring between the driver and optical array. Drivers accept an input of 120/277V, 50/60Hz or 347/480V, 50/60Hz. (0-10V dimmable driver is standard. Driver has a minimum of 3KV inrush surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED EMITTERS

High output LED's are utilized with drive currents ranging from 350mA to 1000mA. PCB Minimum LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult factory for other LED options.

AMBER LED'S

PCA (Phosphor Converted Amber) LED's utilize phosphors to create color output similar to LPS lamps and have a slight output in the blue spectral band. PCA (True Amber) LED's utilize material that emits light in the amber spectral bandwith only without the use of phosphors.

FINISH

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pre-treatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

PROJECT NAME: _____
PROJECT TYPE: _____

FEATURE	A	B	C
RZR-WM1	18"	18"	18"
RZR-WM2	18"	18"	18"
RZR-WM3	18"	18"	18"

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RAZAR WALLMOUNT SERIES-LED

SPECIFICATIONS

EMERGENCY OPTION

PLED® MODULES

WALL MOUNTING

MAX INPUT WATTAGE

# OF LED'S	350mA	500mA	700mA	1000mA
120V	20	20	20	20
277V	20	20	20	20
347V	20	20	20	20
480V	20	20	20	20

Spec/Order Example: RZR-WM3-LED E.P.A.-49

SPEC/ORDERING INFORMATION

MODEL	OPTICS	LED MODE	VOLTAGE	FINISH	OPTIONS
RZR-WM1	PLED DISTRIBUTION TYPE I	NO LED'S	120V	BLACK RAL9005-F	EMERGENCY OPTION 1, EM1
RZR-WM1	PLED DISTRIBUTION TYPE I	350mA	120V	WHITE RAL9003-F	EMERGENCY OPTION 2, EM2
RZR-WM1	PLED DISTRIBUTION TYPE I	500mA	120V	GREY RAL9004-F	EMERGENCY OPTION 3, EM3
RZR-WM1	PLED DISTRIBUTION TYPE I	700mA	120V	GREEN RAL6003-F	EMERGENCY OPTION 4, EM4
RZR-WM1	PLED DISTRIBUTION TYPE I	1000mA	120V	AMBER PCA	EMERGENCY OPTION 5, EM5

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SA & SB

AREA & ROADWAY LIGHTING

RAZAR SERIES - LED

LOW PROFILE AREA LUMINAIRE

PROJECT NAME: _____
PROJECT TYPE: _____

Optical Housing

Heavy cast low copper aluminum assembly (A356 alloy ± 0.2 copper) minimum wall thickness is .188". LED Module mounting area is machined to within 0.001" surface finish tolerance for maximum surface contact and thermal conductivity from the LED modules to the casting fins. Passive radiating fins above the LED optics provide superior thermal management and long LED life. The optical and electrical compartments are integrated with the support arm to create one assembly. Cast and forged driver compartment cover allows access to the drivers and wiring.

Electrical Housing w/ Integrated Arm

Heavy cast low copper aluminum (A356 alloy ± 0.2 copper) assembly with integral cooling ribs surrounding the electrical compartment and a top surface on the top of the arm to accommodate a practical emergency Solid barrier wall separates optical and electrical compartments. The optical compartment and electrical compartment with the integrated support arm combine to create one assembly. Minimum wall thickness is .188". Cast and forged driver assembly cover is integrated with wiring compartment cover.

PLED Optics

Emitters (LED's) are arrayed on a metal core PCB panel with each emitter located on a copper thermal transfer pad with a micro-reflector on an LED reflector. LED optics completely seal each individual emitter to meet on P66 rolling in asymmetric distribution, a micro-reflector inside the reflector re-directs the house side emitter output towards the steel side and functions as a house side shading element. Reflector are injection molded H 2 acrylic lens-LED separator is cast to the PCB over an emitter and all reflector are retro-reflective by an aluminum frame. Any one Panel or group of Panels in a luminaire, have the same optical pattern. LED reflectors produce standard beam/distribution. Panels are field replaceable and field rotatable in 90° increments.

LED Driver(s)

Constant current electronic with a power factor of > .99 and a minimum operating temperature of -40°F/-40°C. Drivers (S) are UL and cUL recognized and mounted directly against the Electrical Housing to facilitate thermal transfer, heat down by universal mounting hardware. Drivers are housed in a metal block to facilitate wiring between the driver and optical array. Drivers accept an input of 120/277V, 50/60Hz or 347/480V, 50/60Hz. (0-10V dimmable driver is standard. Driver has a minimum of 3KV inrush surge protection. Luminaire supplied with 20KV surge protector for field accessible installation.)

LED Emitters

High output LED's are utilized with drive currents ranging from 350mA to 1000mA. PCB Minimum LED's are available in standard Neutral White (4000K), or optional Cool White (5000K) or Warm White (3000K). Consult factory for other LED options.

Amber LED's

PCA (True Amber) LED's utilize material that emits light in the amber spectral bandwith only without the use of phosphors.

Finish

Electrostatically applied TGIC Polyester Powder Coat on substrate prepared with 20 PSI power wash at 140°F. Four step media blast and iron phosphate pre-treatment for protection and paint adhesion. 400°F bake for maximum hardness and durability.

Mount Arm (Electrical Housing)

Reduces standard Electrical Housing. Fits standard 2 1/8" O.D. horizontal luminaire. Two (2) straps with two (2) hole each encircle the lower half of the luminaire. Upper half of the luminaire rests on self-centering steps that position the angle of the luminaire at 0°, +15°, +30°, +45°, +60°, +75°, +90°, +105°, +120°, +135°, +150°, +165°, +180°.

UL Listed for use in Wet Locations

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RZR SERIES - LED

SPECIFICATIONS

POLE DRILLING TEMPLATE

EPA & WEIGHT

PLED® MODULES

ORDERING INFORMATION

Spec/Order Example: RZR-WM3-LED E.P.A.-49

Luminaire

Luminaire	Optics	LED Mode	Voltage	Mounting	Finish	Options
RZR-G	PLED DISTRIBUTION TYPE I	NO LED'S	120V	1	BLACK RAL9005-F	EMERGENCY OPTION 1, EM1
RZR-G	PLED DISTRIBUTION TYPE I	350mA	120V	1	WHITE RAL9003-F	EMERGENCY OPTION 2, EM2
RZR-G	PLED DISTRIBUTION TYPE I	500mA	120V	1	GREY RAL9004-F	EMERGENCY OPTION 3, EM3
RZR-G	PLED DISTRIBUTION TYPE I	700mA	120V	1	GREEN RAL6003-F	EMERGENCY OPTION 4, EM4
RZR-G	PLED DISTRIBUTION TYPE I	1000mA	120V	1	AMBER PCA	EMERGENCY OPTION 5, EM5

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DEUTSCH ARCHITECTURE GROUP

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PHOENIX, ARIZONA 85018
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ARMANDO GARCIA

LONGBOW 202 SHELL BUILDING
5818 E. MCDOWELL ROAD
MESA, AZ 85215

PRELIMINARY - NOT FOR CONSTRUCTION

DESIGN CODES
IECC: 2018 NEC: 2017

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Project # 24368

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DR4.0

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ELECTRICAL CUT SHEETS

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