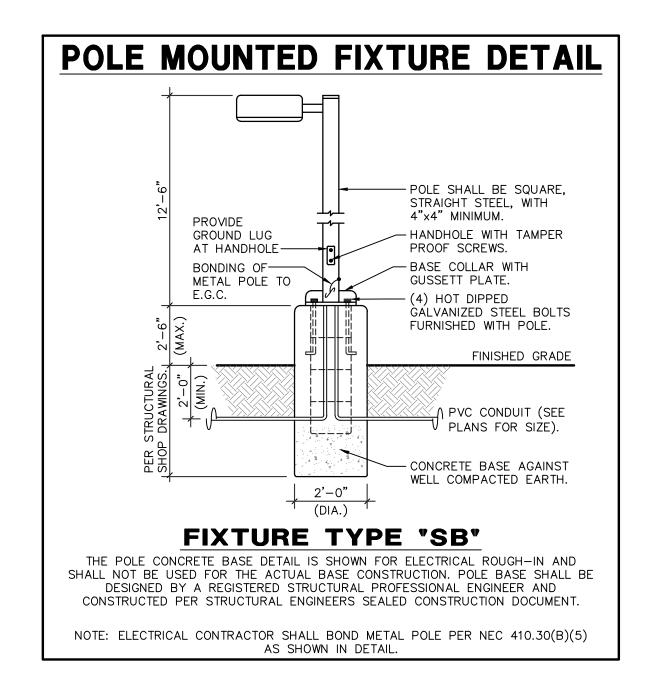


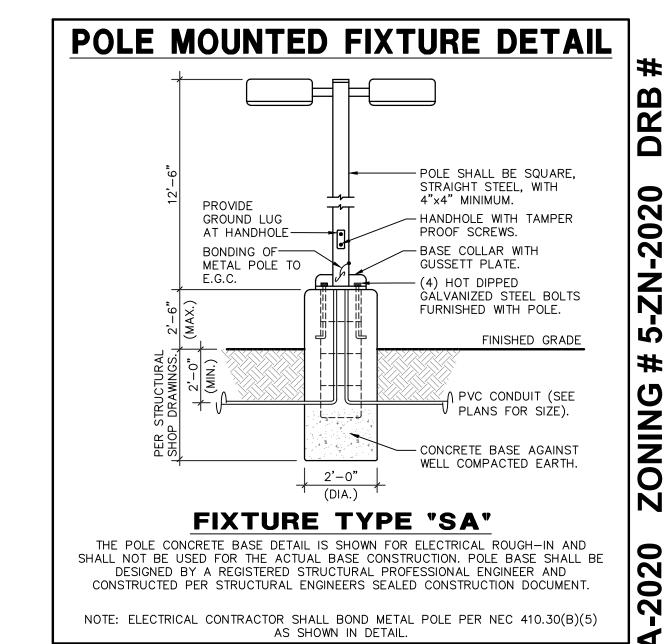
NORTH

LUMINAIRE SCHEDULE

- PROVIDE 90 MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
- . MODULAR WIRING SYSTEM FOR LIGHT FIXTURES IS AN ACCEPTABLE ALTERNATE. . BASE BID FOR LUMINAIRES SHALL BE BASED ON MANUFACTURERS LISTED IN CONTRACT DOCUMENTS. UPON AWARD OF PROJECT. ALTERNATES PROPOSED BY CONTRACTOR SHALL BE SUBMITTED <u>WITH WRITTEN OWNER APPROVAL & AN INTEMIZED DEDUCT TO BASE BID</u>.
- 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 | HUBBELL LIGHTING VP-S-48L -110-3K7-4 | MVOLT | LED - 216W | DUAL HEAD POLE FIXTURE MOUNT AT 15' |
| SB | HUBBELL LIGHTING VP-S-48L -110-3K7-4W | MVOLT | LED - 107W | SINGLE HEAD POLE FIXTURE MOUNTED AT 15' |
| sw | HUBBELL OUTDOOR TRP1-12L15-3K7-3 | MVOLT | LED - 14W | WALL PACK FIXTURE MOUNTED A |
| G | BEACON PRODUCTS SRT1-55-4K7-5QW | MVOLT | LED - 55W | 12" GARAGE DOWNLIGHT FIXTUR MOUNTED AT 20' |





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DESIGN CODES IECC₁ 2018 NEC: 2017

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NELSEN PARTNERS

ARCHITECTS & PLANNERS

Nelsen Partners, Inc. Austin | Scottsdale

15210 North Scottsdale Road Suite #300 Scottsdale, Arizona 85254

480.949.6800 nelsenpartners.com



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OWE McD

Hawkins Companies

Commercial Developers 4700 S. McClintock Drive Ste 160 Tempe, AZ 85282

ARCHITECT

Nelsen Partners 15210 N. Scottsdale Road Suite 300 Scottsdale, AZ 85254 Attn: Jeff Brand

April 29, 2021

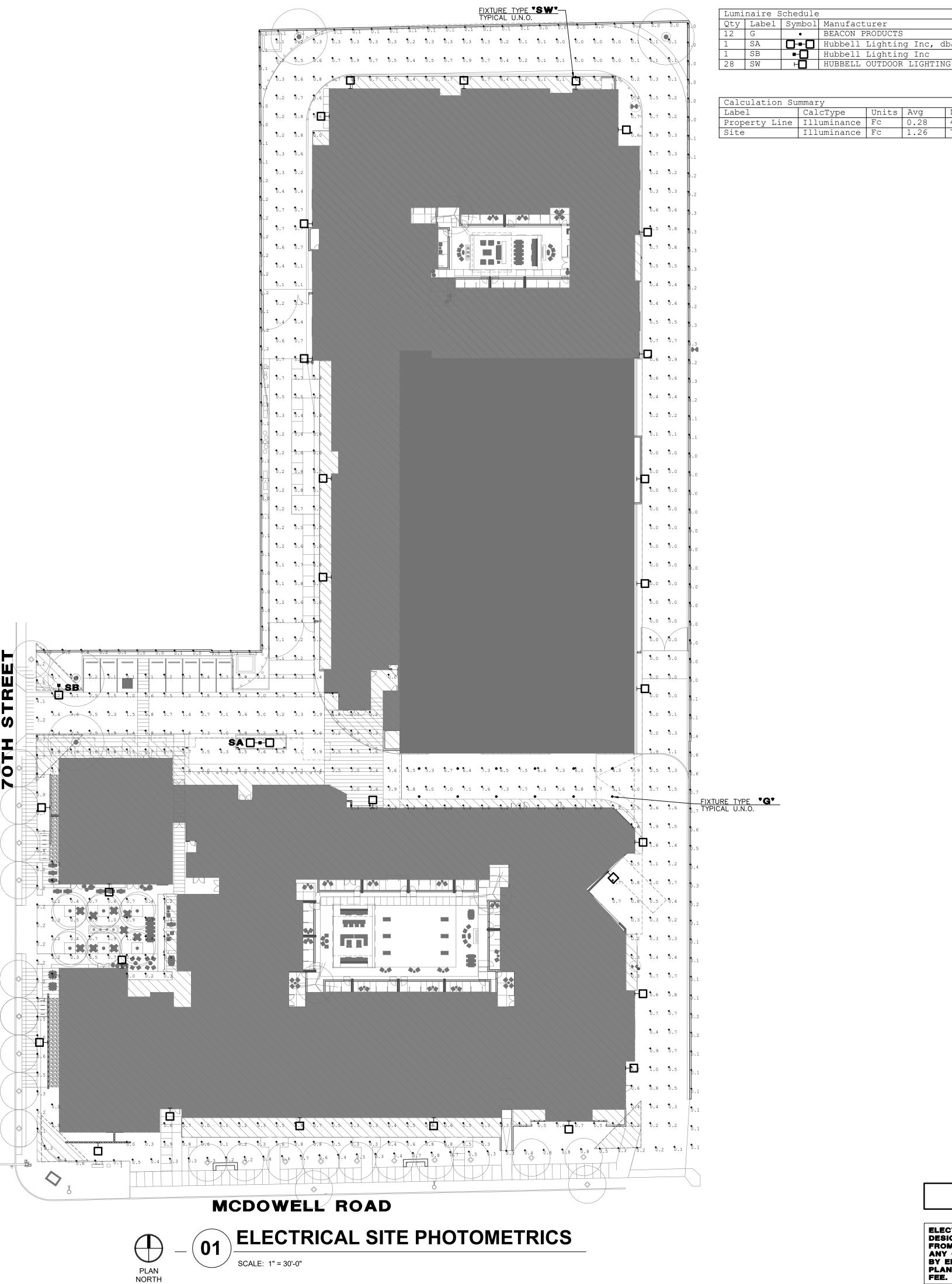
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Project No. 319084

DR-110

ELECTRICAL SITE LIGHTING PLAN



| Lum | inaire S | Schedule | | | | | | | |
|-----|----------|----------|--|---------------------|------------|-------|--------|--------|-------------|
| Qty | Label | Symbol | Manufacturer | Description | Mtg Height | LLF | Lumens | Watts | Total Watts |
| 12 | G | • | BEACON PRODUCTS | SRT1-55-4K7-5QW | 20' | 0.900 | 5698 | 54.9 | 658.8 |
| 1 | SA | 0+0 | Hubbell Lighting Inc, dba Beacon Product | VP-S-48L-110-3K7-4 | 15' | 0.900 | 10800 | 108 | 216 |
| 1 | SB | | Hubbell Lighting Inc | VP-S-48L-110-3K7-4W | 15' | 0.900 | 10544 | 107.36 | 107.36 |
| 28 | SW | Н | HUBBELL OUTDOOR LIGHTING | TRP1-12L15-3K7-3 | 15' | 0.900 | 1477 | 13.9 | 389.2 |

| Calculation Su | mmary | | | | | | |
|----------------|-------------|-------|------|-----|-----|---------|---------|
| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min |
| Property Line | Illuminance | Fc | 0.28 | 4.1 | 0.0 | N.A. | N.A. |
| Site | Illuminance | Fc | 1.26 | 7.7 | 0.0 | N.A. | N.A. |

NELSEN PARTNERS ARCHITECTS & PLANNERS

Nelsen Partners, Inc. Austin | Scottsdale

15210 North Scottsdale Road Suite #300 Scottsdale, Arizona 85254 t 480.949.6800 nelsenpartners.com



McDOWE

Hawkins Companies Commercial Developers 4700 S. McClintock Drive Ste 160

Tempe, AZ 85282 **ARCHITECT** Nelsen Partners 15210 N. Scottsdale Road Suite 300

Scottsdale, AZ 85254 Attn: Jeff Brand

April 29, 2021

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Project No. 319084

DR-120 ELECTRICAL SITE PHOTOMETRICS

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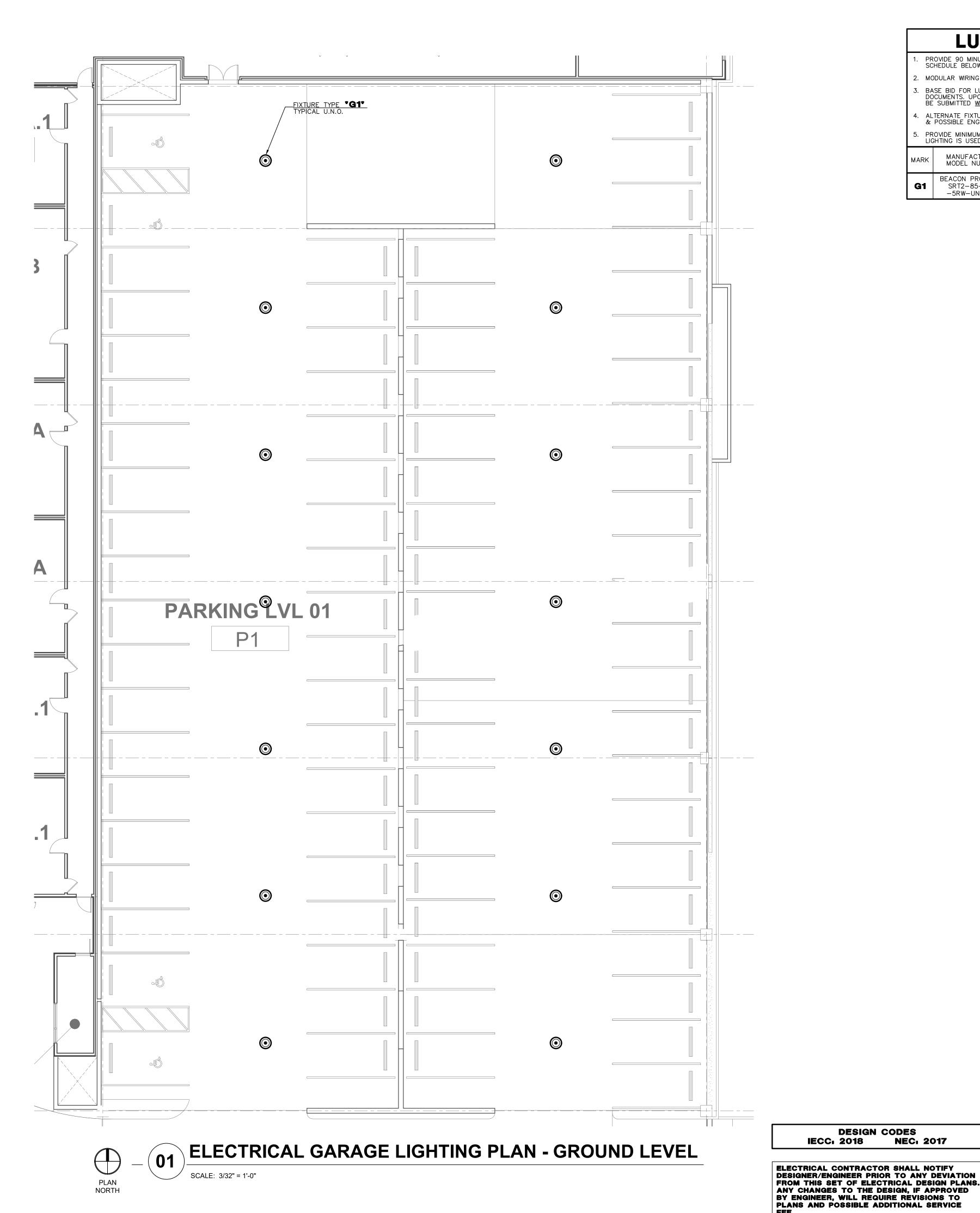
NEC: 2017

IECC₁ 2018

Project Contact/Designer: RANDY GROTHAUS

HAWKINS DESIGN GROUP INC.

ELECTRICAL CONSULTING ENGINEERS
1140 WEST HARWELL ROAD
CILBERT, ARIZONA 85233
PH 480.813.9000 FAX 480.813.9001
EMAIL email@hawkinsdg.com



LUMINAIRE SCHEDULE

- PROVIDE 90 MINUTE EMERGENCY BATTERY BACK-UP FOR ALL EMERGENCY FIXTURES. SEE SCHEDULE BELOW FOR SPECIFICATIONS AND LUMEN REQUIREMENTS.
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- 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 |
|--|------|---|-------|---------------------------------|--|
| | G1 | BEACON PRODUCTS SRT2-85-4K7 -5RW-UNV-GT | MVOLT | LED - 87W | 18.5" GARAGE DOWNLIGHT FIXTU MOUNTED AT 10' |

NELSEN PARTNERS

ARCHITECTS & PLANNERS

Nelsen Partners, Inc. Austin | Scottsdale

15210 North Scottsdale Road Suite #300 Scottsdale, Arizona 85254

480.949.6800 nelsenpartners.com



ARCHITECT Nelsen Partners 15210 N. Scottsdale Road

Ste 160

Suite 300 Scottsdale, AZ 85254 Attn: Jeff Brand

Hawkins Companies Commercial Developers

Tempe, AZ 85282

4700 S. McClintock Drive

April 29, 2021

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Project No. 319084

DR-130

ELECTRICAL GARAGE LIGHTING PLAN -**GROUND LEVEL**

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DESIGN CODES

NEC: 2017

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Project Contact/Designer: RANDY GROTHAUS

HAWKINS DESIGN GROUP NC.

ELECTRICAL CONSULTING ENGINEERS

17-DR-2021 5/6/2021

| Lumi | minaire Schedule | | | | | | | | |
|------|------------------|----------|-----------------|------------------------|------------|-------|--------|-------|-------------|
| Qty | Label | Symbol | Manufacturer | Description | Mtg Height | LLF | Lumens | Watts | Total Watts |
| 16 | G1 | © | Beacon Products | SRT2-85-4K7-5RW-UNV-GT | 10' | 0.950 | 8967 | 87.2 | 1395.2 |

| 1 | FIXTURE TYPE *G1* TYPICAL U.N.O. | 3.1 3.7 4.3 3.6 2.6 1.9 | |
|--|--|---|---------------------|
| \• I | 1.4 1.9 3.0 4.8 6.7 6.8 4.0 5.4 7.4 6.1 4.2 3.0 2.6 2.8 3.7 5.4 7.0 6.4 | 3.6 5.7 6.9 5.3 3.4 2.3 | |
| | 1.6 2.2 3.6 to 5.1 to 5.5 to 3.7 to 3.4 to 3.2 to 5.7 to 5.0 to 5 | | |
| | 1.7 2.2 3.6 5.8 8.5 5.4 5.8 5.5 7.4 4.9 3.5 3.0 3.3 4.4 6.5 8.9 7.7 | | |
| | 1.7 2.1 3.1 4.6 6.0 5.8 3.9 4.9 6.4 5.6 4.1 3.3 2.9 3.1 3.7 5.0 6.3 5.6 | | |
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| 3 | 1.7 2.2 2.9 4.0 4.9 4.6 3.7 4.0 5.1 4.7 3.6 2.8 1.6 2.5 3.3 4.3 5.1 4.5 | | |
| | 1 1.8 2.3 3.3 5.1 6.9 6.9 4.0 5.5 5.4 6.1 4.2 3.1 1.7 2.7 3.7 5.4 5.1 6.6 1.8 2.5 3.5 5.6 5.7 5.0 5.1 5.0 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 5.1 | | |
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| | 1.7 2.2 3.0 4.1 4.9 4.6 3.6 4.0 5.0 4.6 3.6 2.9 1 1.7 2.6 3.2 4.3 5.0 4.4 | \$ 3.6 \$ 4.2 \$ 5.0 \$ 4.4 \$ 3.3 \$ 2.6 | |
| | 1.8 2.3 3.4 5.1 6.9 6.9 3.9 5.4 7.4 6.1 4.3 3.1 1.8 2.7 3.7 5.4 7.1 6.6 | 5 3.7 5.9 7.3 5.8 3.9 2.8 | |
| | 1.9 2.5 3.9 6.1 5.3 5.0 5.5 10.3 7.7 4.9 3.3 1.9 2.9 4.2 6.7 5.7 8.0 | 6.7 to.0 to.2 to.5 to.0 | |
| | 1.8 2.5 3.7 5.9 8.6 8.4 3.4 5.9 9.4 7.2 4.7 3.3 1.8 2.8 4.0 6.4 8.9 7.8 | 3 3.1 6.9 5. <u>2 6.7 4.3 2.9</u> m | |
| | 1.8 2.3 3.2 4.6 6.1 5.8 3.9 4.9 6.4 5.4 4.0 3.0 1.7 2.6 3.5 5.0 6.4 5.6 | 5 3.9 5.2 6.3 5.2 3.7 2.7 | |
| | $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 3.5 3.9 4.7 4.2 3.2 2.5 | |

ELECTRICAL GARAGE PHOTOMETRICS - GROUND LEVEL

SCALE: 3/32" = 1'-0"

PLAN NORTH

Calculation Summary CalcType Units Avg Min Avg/Min Max/Min Max Level 1_Floor | Illuminance | Fc 3.26 10.3 1.4 7.36

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Nelsen Partners, Inc.
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2020

#

DRB

Hawkins Companies Commercial Developers 4700 S. McClintock Drive Ste 160 Tempe, AZ 85282

ARCHITECT Nelsen Partners 15210 N. Scottsdale Road Suite 300 Scottsdale, AZ 85254

Attn: Jeff Brand

April 29, 2021

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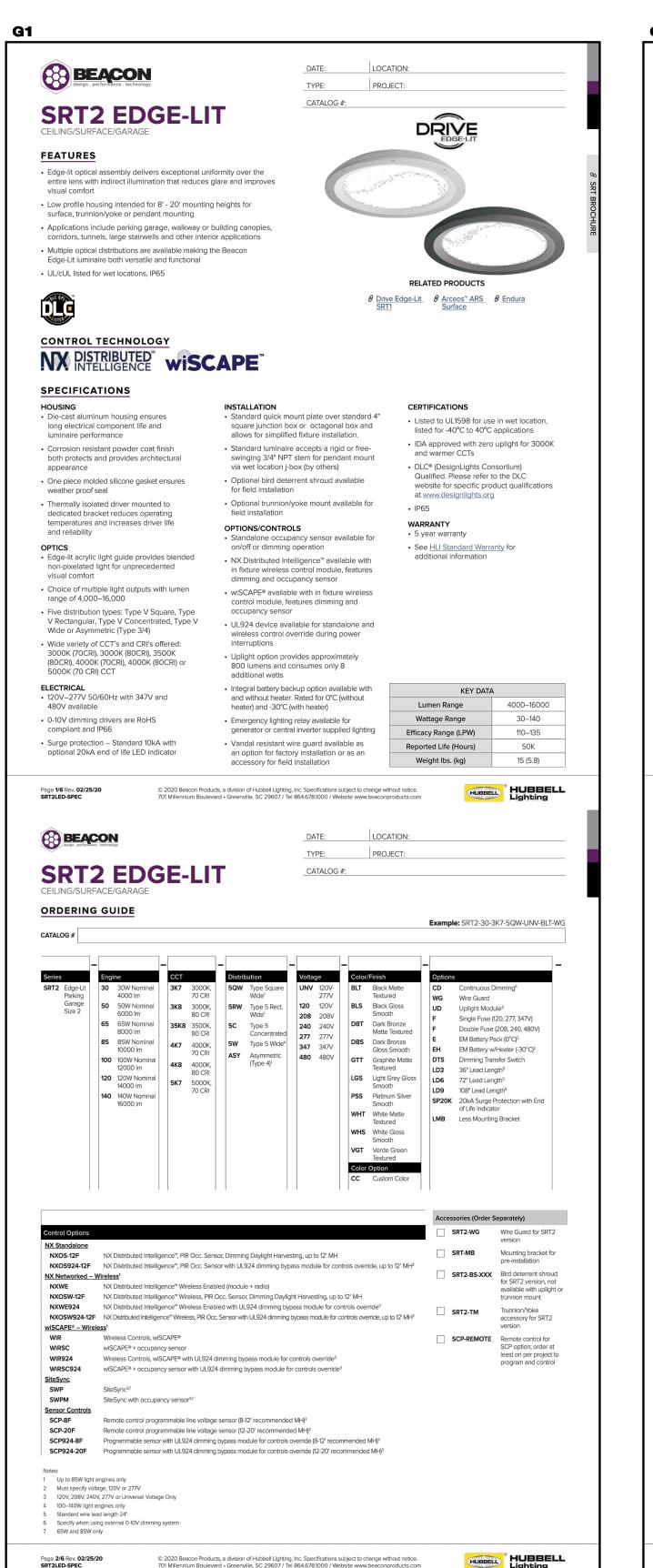
Project No. 319084

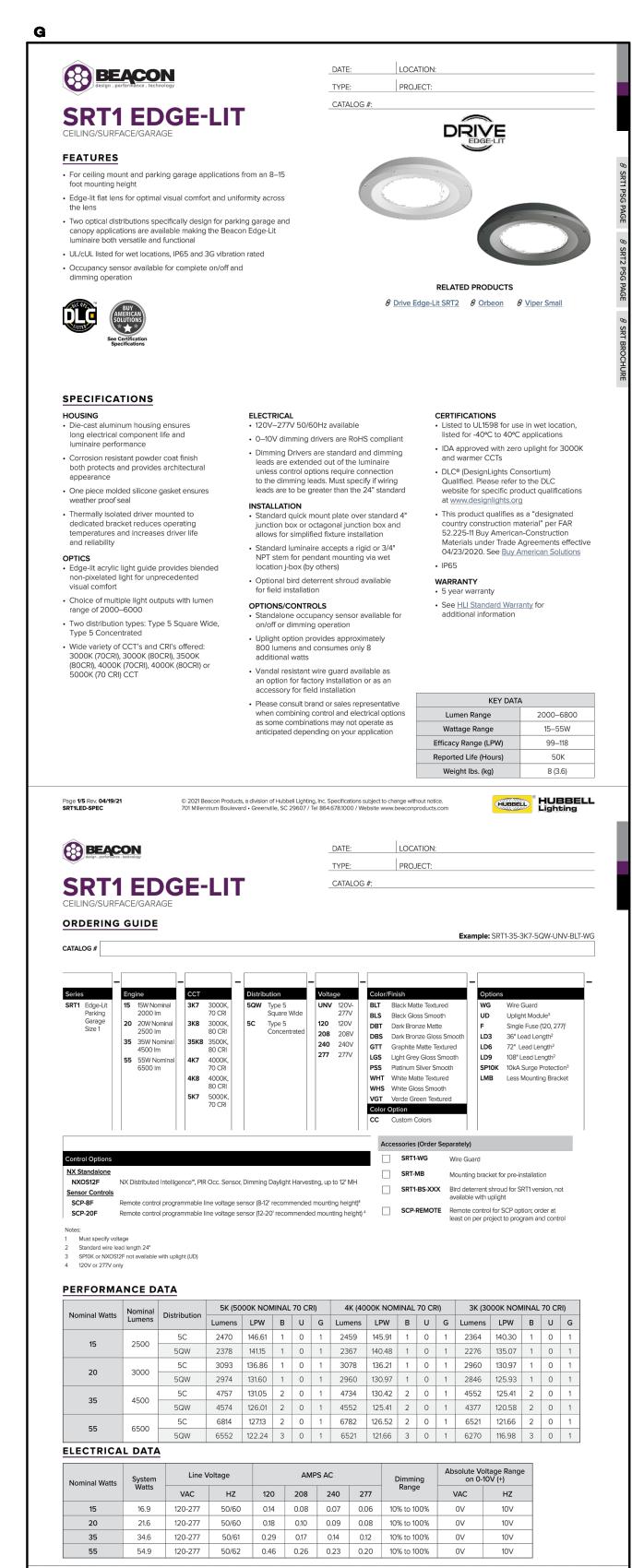
DR-140

ELECTRICAL GARAGE PHOTOMETRICS -**GROUND LEVEL**

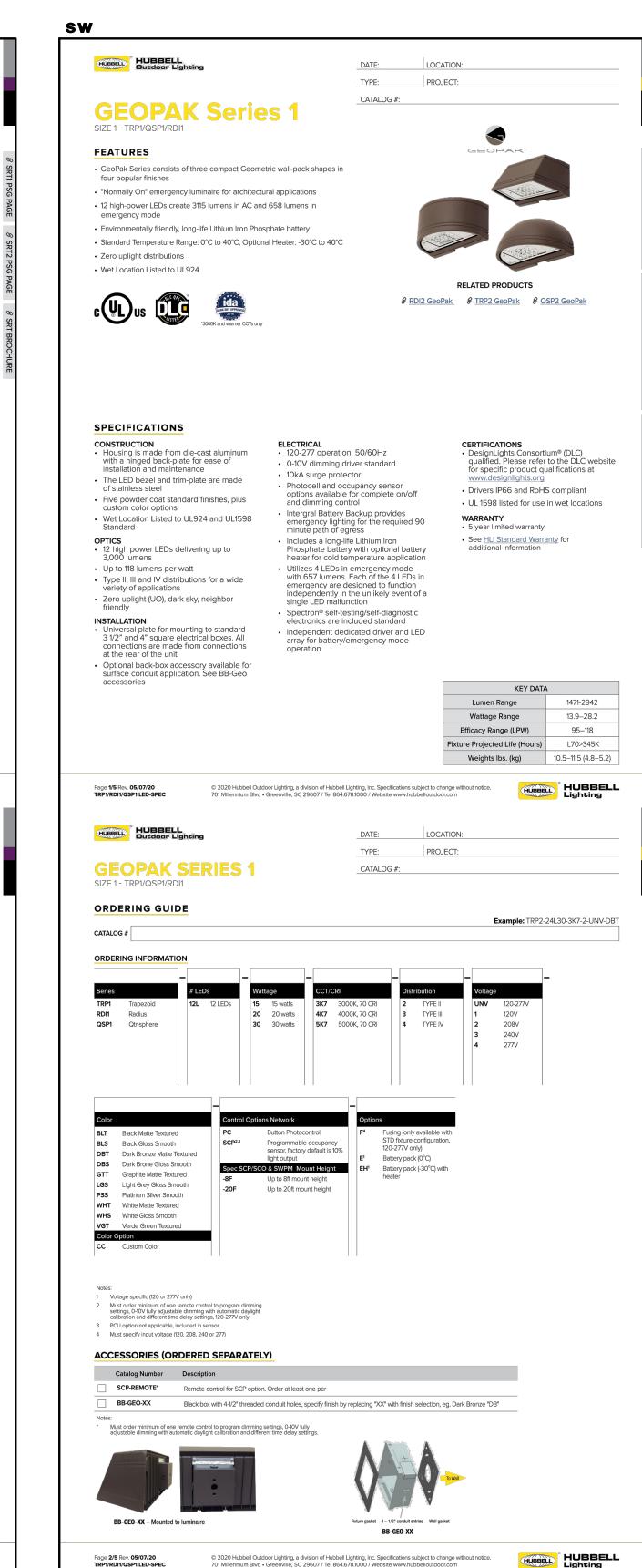
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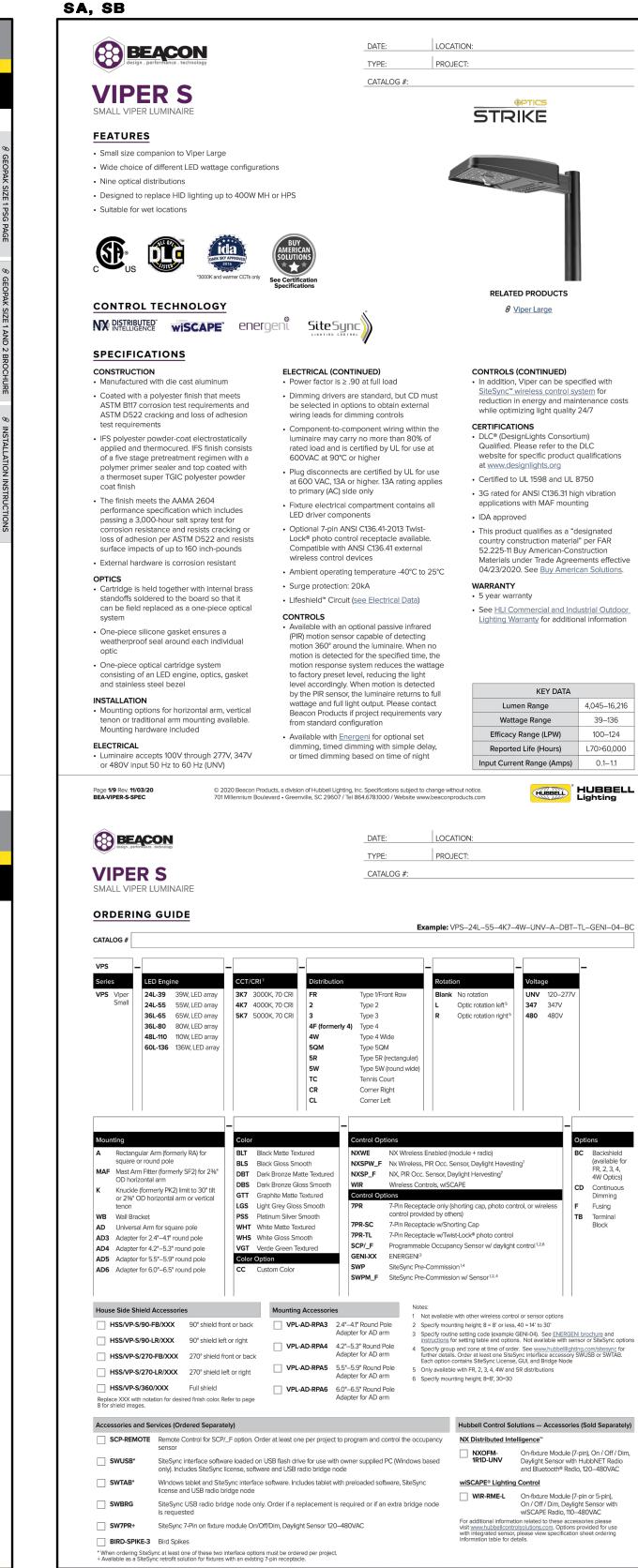
5/6/2021





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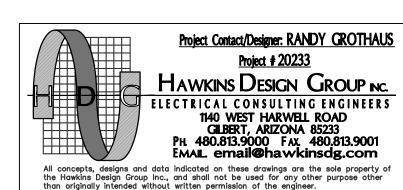




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Nelsen Partners, Inc. Austin | Scottsdale

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 δ CD

39-136

Continuous Dimming

Fusing

100-124

OWNER Hawkins Companies Commercial Developers 4700 S. McClintock Drive Ste 160 Tempe, AZ 85282

ARCHITECT Nelsen Partners

15210 N. Scottsdale Road Suite 300 Scottsdale, AZ 85254 Attn: Jeff Brand

April 29, 2021

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DR-150 ELECTRICAL CUT

SHEETS

17-DR-2021 5/6/2021