

ORDINANCE NUMBER 2021- 10

GRANTING A SPECIAL USE PERMIT FOR A BANQUET HALL AND A VARIANCE TO SECTION 7.01.D.12.A OF THE KENDALL COUNTY ZONING ORDINANCE TO ALLOW A BANQUET FACILITY TO BE LOCATED OFF OF A NON-ARTERIAL OR NON-MAJOR COLLECTOR ROADWAY AT 4405 VAN DYKE ROAD AND IDENTIFIED BY PARCEL IDENTIFICATION NUMBER 09-05-400-021 IN SEWARD TOWNSHIP

WHEREAS, Section 13:08 of the Kendall County Zoning Ordinance permits the Kendall County Board to issue special use permits and place conditions on special use permits and provides the procedure through which special use permits are granted; and

WHEREAS, Section 13:04 of the Kendall County Zoning Ordinance permits the Kendall County Board to issue variations and place conditions on variations and provides the procedure through which variations are granted; and

WHEREAS, Section 7:01.D.12 of the Kendall County Zoning Ordinance permits the operation of banquet halls as a special use with certain restrictions in the A-1 Agricultural Zoning District; and

WHEREAS, Section 7:01.D.12.a of the Kendall County Zoning Ordinance requires banquet halls located in the A-1 Agricultural Zoning District to have direct access to an arterial roadway or major collector road as defined in the Land Resource Management Plan; and

WHEREAS, the property which is the subject of this Ordinance has been, at all relevant times, and remains currently located within the A-1 Agricultural Zoning District and consists of approximately 5.8 acres located at 4405 Van Dyke Road, Minooka (PIN: 09-05-400-021) in Seward Township. The legal description for the subject property is set forth in Exhibit A attached hereto and incorporated by reference, and this property shall hereinafter be referred to as "the subject property"; and

WHEREAS, the subject property is currently owned by Jamie and Jillian Prodehl and shall hereinafter be referred to as "Petitioner"; and

WHEREAS, on or about February 17, 2021, Petitioner filed a petition for a Special Use Permit allowing the operation of a banquet hall at the subject property and a variance to Sections 7:01.D.12.a of the Kendall County Zoning Ordinance; and

WHEREAS, following due and proper notice by publication in the Beacon-News on March 9, 2021, the Kendall County Zoning Board of Appeals conducted a public hearing on March 29, 2021, at 7:00 p.m., in the Third Floor Courtroom of the Kendall County Historic Courthouse at 109 W. Ridge Street in Yorkville, at which the Petitioner presented evidence, testimony, and exhibits in support of the requested special use permit and variance and two members of the public testified in favor of the proposal and zero members of the public testified in opposition to the proposal; and

WHEREAS, based on the evidence, testimony, and exhibits, the Kendall County Zoning Board of Appeals has made their Findings of Fact and recommended approval of the special use permit and variance with conditions as set forth in the Findings of Fact and Recommendation of the Kendall County Zoning Board of Appeals, dated March 29, 2021, a true and correct copy of which is attached hereto as Exhibit B; and

WHEREAS, the Kendall County Planning, Building and Zoning Committee of the Kendall County Board has

reviewed the testimony presented at the aforementioned public hearing and has considered the Findings of Fact and Recommendation of the Kendall County Zoning Board of Appeals, and has forwarded to the Kendall County Board a recommendation of approval of the requested special use permit and variance with conditions; and

WHEREAS, the Kendall County Board has considered the recommendation of the Planning, Building and Zoning Committee and the Findings of Fact and Recommendation of the Kendall County Zoning Board of Appeals, and has determined that said petition is in conformance with the provisions and intent of the Kendall County Zoning Ordinance; and

WHEREAS, this special use permit and variance shall be treated as a covenant running with the land and is binding on the successors, heirs, and assigns as to the same special use conducted on the property; and

NOW, THEREFORE, BE IT ORDAINED, BY THE COUNTY BOARD OF KENDALL COUNTY, ILLINOIS, as follows:

1. The Findings of Fact and Recommendation of the Kendall County Zoning Board of Appeals attached hereto as Exhibit B is hereby accepted and the Findings of Fact set forth therein are hereby adopted as the Findings of Fact and Conclusions of this Kendall County Board.
2. The Kendall County Board hereby grants approval of Petitioner's petition for a special use permit and variance allowing the operation of a banquet hall on the subject property subject to the following conditions:
 - A. The site shall be developed substantially in accordance with the site plan attached hereto as Exhibit C, landscaping plan attached hereto as Exhibit D, and photometric plan attached hereto as Exhibit E.
 - B. A variance to Section 7:01.D.12.a shall be granted to allow the placement of the banquet hall on a non-arterial and non-major collector roadway.
 - C. A maximum of two hundred (200) guests, vendors, and employees in attendance at a banquet center related event may be on the subject property at a given time.
 - D. The business allowed by this special use permit may have a maximum of four (4) employees, including the property owners.
 - E. The subject parcel must maintain a minimum of five (5) acres.
 - F. The owners of the business allowed by this special use permit may install one (1) sign in substantially the location shown on the site plan attached hereto as Exhibit C. The sign shall look similar to the sign example attached hereto as Exhibit F. The supports for the sign will be seven feet (7') in height and five feet (5') in width. The circle will be no larger than four foot (4') in circumference. The sign may be double sided. The sign shall not be illuminated.
 - G. Retail sales are permitted as long as the retail sales will be ancillary to the main operation.
 - H. The noise regulations are as follows:

Day Hours: No person shall cause or allow the emission of sound during daytime hours (7:00 A.M. to 10:00 P.M.) from any noise source to any receiving residential land which exceeds sixty-five (65) dBA when measured at any point within such receiving residential land, provided; however, that point of measurement shall be on the property line of the complainant.

Night Hours: No person shall cause or allow the emission of sound during nighttime hours (10:00 P.M. to 7:00 A.M.) from any noise source to any receiving residential land which exceeds fifty-five (55) dBA when measured at any point within such receiving residential land provided; however, that point of measurement shall be on the property line of the complainant.


EXEMPTION: Powered Equipment: Powered equipment, such as lawn mowers, small lawn and garden tools, riding tractors, and snow removal equipment which is necessary for the maintenance of property is exempted from the noise regulations between the hours of seven o'clock (7:00) A.M. and ten o'clock (10:00) P.M.

- I. No music shall originate outside of any building. This restriction shall not apply to non-amplified music used or performed as part of a wedding ceremony. All speakers shall be pointed towards the inside of the building. For music originating inside the building, all amplified music shall cease on or before two hours prior to closing.
- J. The hours of operation for the business allowed by this special use permit shall be between 9:00 a.m. and 10:00 p.m. on weekdays and between 9:00 a.m. until Midnight on weekends. For the purposes of this ordinance, a weekend shall be Fridays, Saturdays, the day prior to any Federal or State Holiday, and any Federal or State Holiday that falls on a Thursday. All other days shall be considered weekdays. Maintenance of the property may occur outside these hours of operation.
- K. All guests at events related to the business allowed by this special use permit shall vacate the property no later than one (1) hour prior to the business closure time listed in the previous condition. Vendors and individuals assisting with the cleanup of events must vacate the property by the closure time listed in the previous condition.
- L. None of the buildings associated with the business allowed by this special use permit shall be considered agricultural exempt structures. Applicable building and occupancy permits shall be secured for all new structures related to the business allowed by this special use permit. A new certificate of occupancy must be issued for the existing metal barn.
- M. The owner(s) or operator(s) of the business allowed by this special use permit shall live at the subject property as their primary place of residence.
- N. All trash and garbage generated by events associated with the business allowed by this special use permit shall be stored in the trash enclosure shown on the site plan attached hereto as Exhibit C. The owner(s) or operator(s) of the business allowed by this special use permit shall ensure that garbage and trash shall be removed from the property at least one (1) time per week or as necessary to maintain the property clear of garbage and trash.
- O. The subject property shall be landscaped substantially in accordance with the landscaping plan attached hereto as Exhibit D. All landscaping and the driveway widening shall occur within one hundred twenty (120) days after the approval of the ordinance granting a special use permit for a banquet facility at the subject property.
- P. The operator(s) of the banquet facility acknowledge and agree to follow Kendall County's Right to Farm Clause.
- Q. The operator(s) of the banquet facility allowed by this special use permit shall follow all applicable Federal, State, and Local laws related to the operation of this type of business.
- R. Failure to comply with one or more of the above conditions or restrictions could result in the amendment or revocation of the special use permit.

- S. If one or more of the above conditions is declared invalid by a court of competent jurisdiction, the remaining conditions shall remain valid.
3. This special use permit shall be treated as a covenant running with the land and is binding on the successors, heirs, and assigns as to the same special use conducted on the property.
4. The Zoning Administrator and other appropriate County Officials are hereby authorized and directed to amend the Official Zoning Map of Kendall County to reflect this special use permit.

IN WITNESS OF, this ordinance has been enacted by a majority vote of the Kendall County Board and is effective this 20th day of April, 2021.

Attest:


Kendall County Clerk
Debbie Gillette


Kendall County Board Chairman
Scott R. Gryder



Correct Legal

THAT PART OF THE SOUTHEAST 1/4 OF SECTION 5, TOWNSHIP 35 NORTH, RANGE 8 EAST OF THE THIRD PRINCIPAL MERIDIAN DESCRIBED AS FOLLOWS: BEGINNING AT THE INTERSECTION OF THE WEST LINE OF THE SOUTHEAST 1/4 OF SECTION 5 AND THE CENTERLINE OF VANDYKE ROAD; THENCE NORTH 01 DEGREES 28 MINUTES 26 SECONDS WEST ALONG SAID WEST LINE OF THE SOUTHWEST 1/4 OF SECTION 5, A DISTANCE OF 483.67 FEET; THENCE NORTH 89 DEGREES 31 MINUTES 36 SECONDS EAST, A DISTANCE OF 510.43 FEET, THENCE SOUTH 01 DEGREES 17 MINUTES 43 SECONDS EAST, A DISTANCE OF 494.35 FEET TO A POINT ON THE CENTERLINE OF SAID VANDYKE ROAD; THENCE NORTH 89 DEGREES 28 MINUTES 25 SECONDS WEST, A DISTANCE OF 396.85 FEET TO AN ANGLE POINT IN THE CENTER LINE OF VANDYKE ROAD, THENCE NORTH 88 DEGREES 30 MINUTES 55 SECONDS WEST, A DISTANCE OF 112.47 FEET TO THE POINT OF BEGINNING IN SEWARD TOWNSHIP, KENDALL COUNTY, ILLINOIS.

Unofficial

(2018-1572KE.PFD/2018-1572KE/61)

Exhibit B

The Kendall County Zoning Board of Appeals approved the following Findings of Fact and Recommendation at their meeting on March 29, 2021, by a vote of six (6) in favor and zero (0) in opposition. Member Whitfield was absent.

FINDINGS OF FACT-SPECIAL USE

§ 13:08.J of the Zoning Ordinance outlines findings that the Zoning Board of Appeals must make in order recommend in favor of the applicant on special use permit applications.

That the establishment, maintenance, or operation of the special use will not be detrimental to or endanger the public health, safety, morals, comfort, or general welfare. The establishment, maintenance, or operation of the special use will not be detrimental to or endanger the public health, safety, morals, or general welfare, provided that the site is developed in accordance with an approved site plan, landscaping plan, and lighting plan. Proper buffering and noise controls will be necessary to prevent noise from negatively impacting neighboring properties which can be addressed with reasonable conditions on the special use permit.

That the special use will not be substantially injurious to the use and enjoyment of other property in the immediate vicinity for the purposes already permitted, nor substantially diminish and impair property values within the neighborhood. The Zoning classification of property within the general area of the property in question shall be considered in determining consistency with this standard. The proposed use shall make adequate provisions for appropriate buffers, landscaping, fencing, lighting, building materials, open space and other improvements necessary to insure that the proposed use does not adversely impact adjacent uses and is compatible with the surrounding area and/or the County as a whole. The proposed use could be injurious to the enjoyment of other property in the immediate vicinity due to noise and light created from the proposed use. However, these negative impacts could be mitigated by restrictions related to hours of operation, number of events, and noise origination requirements within the ordinance granting the special use permit.

That adequate utilities, access roads and points of ingress and egress, drainage, and/or other necessary facilities have been or are being provided. True, the property previously possessed a special use permit for a place of worship and utilities and other necessary facilities were addressed as part of the use of the site as a church. The Petitioner plans to work with the Kendall County Health Department to address the well and septic system. The Petitioner also proposes to widen the driveway.

That the special use shall in all other respects conform to the applicable regulations of the district in which it is located, except as such regulations may in each instance be modified by the County Board pursuant to the recommendation of the Zoning Board of Appeals. Provided that the variance is approved regarding distance to arterial and collector roads, the special use would conform to the applicable regulations of the district.

That the special use is consistent with the purpose and objectives of the Land Resource Management Plan and other adopted County or municipal plans and policies. True, the proposed use is consistent with an objective found on Page 3-6 of the Kendall County Land Resource Management Plan which states as an objective "Encourage Agriculture and Agribusiness."

FINDINGS OF FACT-VARIANCE

§ 13:04.A.3 of the Zoning Ordinance outlines findings that the Zoning Board of Appeals must make in order to grant variations.

That the particular physical surroundings, shape, or topographical condition of the specific property involved would result in a particular hardship or practical difficulty upon the owner if the strict letter of the regulations were carried out. The proposed banquet hall is approximately one half (1/2) mile from an arterial or major collector (Grove Road). In 2018, the County granted a similar variance for a banquet hall located approximately one point two (1.2) miles from an arterial roadway.

That the conditions upon which the requested variation is based would not be applicable, generally, to other property within the same zoning classification. This is not true. Other banquet halls in the rural areas could face similar concerns. The specific number of properties sharing similar characteristics is unknown.

That the alleged difficulty or hardship has not been created by any person presently having an interest in the property. The Petitioners desired to have a banquet hall at the subject property. However, the Petitioners were not responsible for the determining the road classification for Van Dyke Road.

That the granting of the variation will not materially be detrimental to the public welfare or substantially injurious to other property or improvements in the neighborhood in which the property is located. True, the Kendall County Sheriff's Department, Seward Township, and the Lisbon-Seward Fire Protection District have not expressed any concerns regarding the proposed use being materially detrimental to the public welfare or injurious to other property in the neighborhood.

That the proposed variation will not impair an adequate supply of light and air to adjacent property, or substantially increase the congestion in the public streets or increase the danger of fire, or endanger the public safety or substantially diminish or impair property values within the neighborhood. True, the proposed use will not block light or air from adjacent properties. The proposed use will not cause an increase in congestion on public streets because events will not be held every day. Provided the business allowed by the special use permit follows the restrictions placed on the special use permit, no increase to the danger of fire or the endangerment of public safety should occur. Data does not exist as to whether the placement of the proposed use will diminish or impair the property values of the properties located in the vicinity of the subject property.

RECOMMENDATION

Approval subject to the following conditions:

1. The site shall be developed substantially in accordance with the submitted site plan, landscaping plan, and photometric plan.
2. A variance to Section 7:01.D.12.a shall be granted to allow the placement of the banquet hall on a non-arterial and non-major collector roadway.
3. A maximum of two hundred (200) guests, vendors, and employees in attendance at a banquet center related event may be on the subject property at a given time.
4. The business allowed by this special use permit may have a maximum of four (4) employees, including the property owners.
5. The subject parcel must maintain a minimum of five (5) acres.
6. The owners of the business allowed by this special use permit may install one (1) sign in substantially the location shown on the site plan. The sign shall look similar to the submitted sign example. The supports for the sign will be seven feet (7') in height and five feet (5') in width. The circle will be no larger than four foot (4') in circumference. The sign may be double sided. The sign shall not be illuminated.

Exhibit B

7. Retail sales are permitted as long as the retail sales will be ancillary to the main operation.
8. The noise regulations are as follows:

Day Hours: No person shall cause or allow the emission of sound during daytime hours (7:00 A.M. to 10:00 P.M.) from any noise source to any receiving residential land which exceeds sixty-five (65) dBA when measured at any point within such receiving residential land, provided; however, that point of measurement shall be on the property line of the complainant.

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9. No music shall originate outside of any building. This restriction shall not apply to non-amplified music used or performed as part of a wedding ceremony. All speakers shall be pointed towards the inside of the building. For music originating inside the building, all amplified music shall cease on or before two hours prior to closing.
10. The hours of operation for the business allowed by this special use permit shall be between 9:00 a.m. and 10:00 p.m. on weekdays and between 9:00 a.m. until Midnight on weekends. For the purposes of this ordinance, a weekend shall be Fridays, Saturdays, the day prior to any Federal or State Holiday, and any Federal or State Holiday that falls on a Thursday. All other days shall be considered weekdays. Maintenance of the property may occur outside these hours of operation.
11. All guests at events related to the business allowed by this special use permit shall vacate the property no later than one (1) hour prior to the business closure time listed in the previous condition. Vendors and individuals assisting with the cleanup of events must vacate the property by the closure time listed in the previous condition.
12. None of the buildings associated with the business allowed by this special use permit shall be considered agricultural exempt structures. Applicable building and occupancy permits shall be secured for all new structures related to the business allowed by this special use permit. A new certificate of occupancy must be issued for the existing metal barn.
13. The owner(s) or operator(s) of the business allowed by this special use permit shall live at the subject property as their primary place of residence.
14. All trash and garbage generated by events associated with the business allowed by this special use permit shall be stored in the trash enclosure shown on the site plan. The owner(s) or operator(s) of the business allowed by this special use permit shall ensure that garbage and trash shall be removed from the property at least one (1) time per week or as necessary to maintain the property clear of garbage and trash.
15. The subject property shall be landscaped substantially in accordance with the landscaping plan. All landscaping and the driveway widening shall occur within one hundred twenty (120) days after the approval of the ordinance granting a special use permit for a banquet facility at the subject property.
16. The operator(s) of the banquet facility acknowledge and agree to follow Kendall County's Right to Farm Clause.
17. The operator(s) of the banquet facility allowed by this special use permit shall follow all applicable Federal, State, and Local laws related to the operation of this type of business.
18. Failure to comply with one or more of the above conditions or restrictions could result in the

Exhibit B

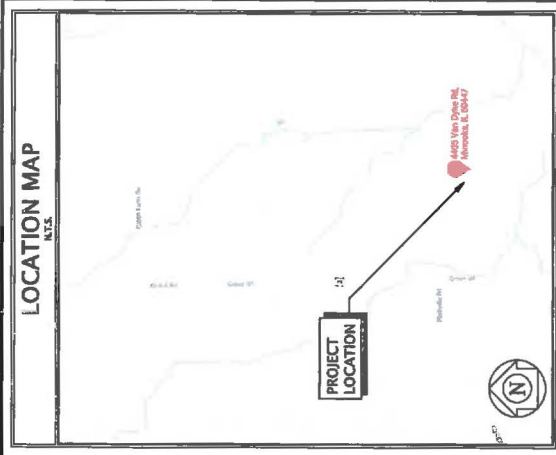
amendment or revocation of the special use permit.

- 19. If one or more of the above conditions is declared invalid by a court of competent jurisdiction, the remaining conditions shall remain valid.**

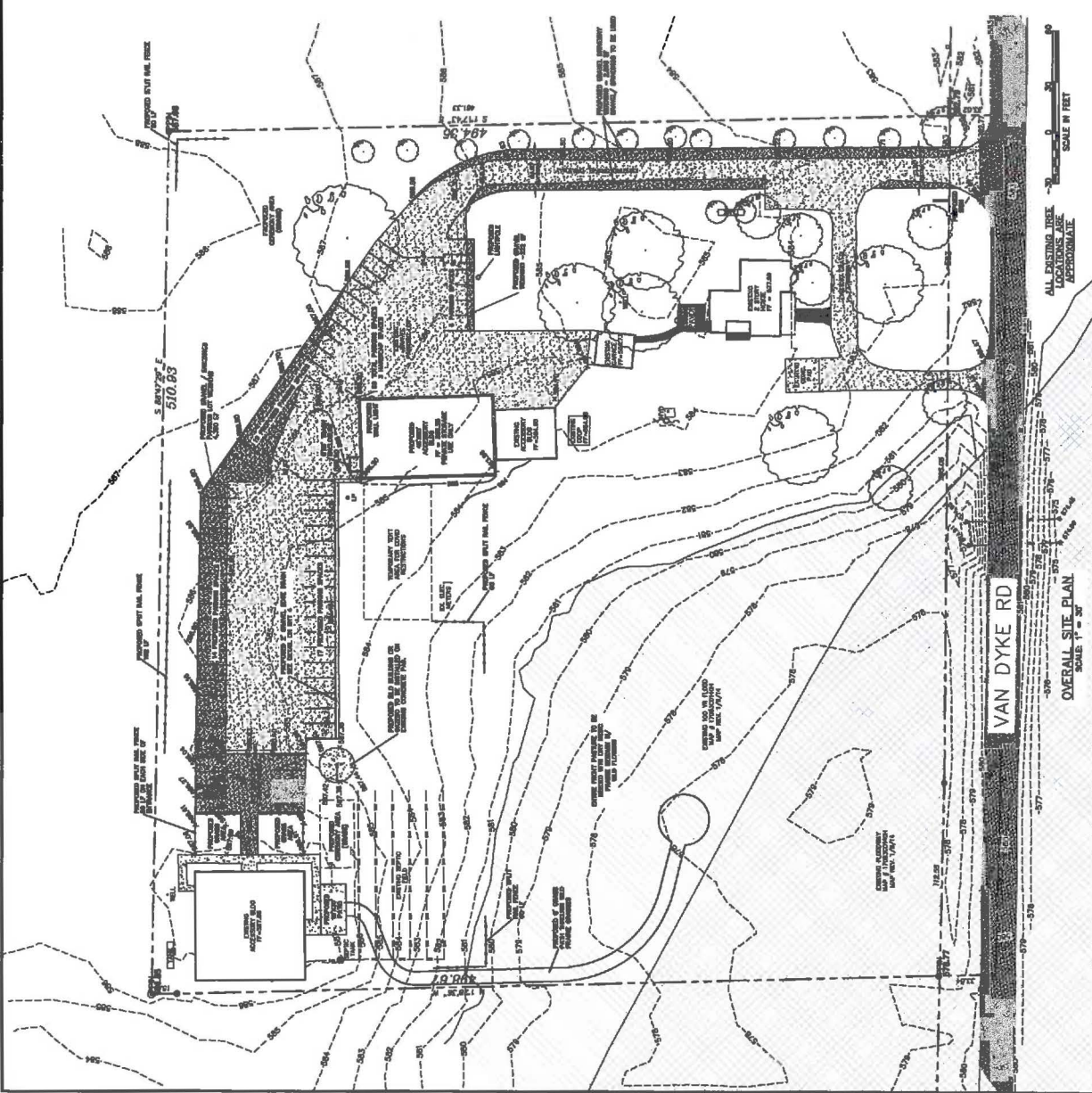
LEGEND

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| EXISTING IMPROVEMENTS | 1" = 1" AS SHOWN |
| PROPOSED IMPROVEMENTS | 2" = 1" AS SHOWN |
| PROPOSED DRIVE | 3" = 1" AS SHOWN |
| PROPOSED DRIVE DRIVE | 4" = 1" AS SHOWN |
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ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER QUALITY UNLESS NOTED OTHERWISE

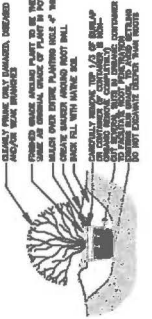


SITE DATA:
TOTAL LOT SIZE: 5.82 AC
TOTAL PARKING STALLS REQ'D: 44
TOTAL PARKING STALLS PROP: 50
TOTAL HANDICAP STALLS REQ'D: 2
TOTAL HANDICAP STALLS PROP: 3
EXISTING PAVEMENT TO BE REMOVED: 1,337 SF
PROPOSED GRAVEL: 7,422 SF
PROPOSED ASPHALT PAVED: 400 SF
NET INCREASE: 6,605 SF



| | | | |
|---|------------------------|-----------------|--|
| TEBRUGGE ENGINEERING 110 E. CHURCH STREET - SUITE A • MINOOKA, IL 60449 PHONE: (815) 798-4195 • TEBRUGGEENGINEERING.COM | DATE: 03/18/21 | SHEET NO.: 1 | SABLE CREEK HOMESTEAD WEDDING VENUE FINAL SITE PLAN |
| | PROJECT NO.: 21-008-01 | SCALE: 1" = 30' | |
| DATE: 2/16/21 | | | OF 1 SHEET |

- 1. **PREPARE:**
 - A. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
 - B. PROTECT EXISTING UTILITIES, TREES AND PLANTS TO REMAIN.
 - C. OBTAIN PERMITS AND APPROVALS AS REQUIRED.
- 2. **INSTALLATION:**
 - A. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
 - B. PROTECT EXISTING UTILITIES, TREES AND PLANTS TO REMAIN.
 - C. OBTAIN PERMITS AND APPROVALS AS REQUIRED.
- 3. **FINAL COMPLETION, INSPECTION, AND ACCEPTANCE:**
 - A. OBTAIN PERMITS AND APPROVALS AS REQUIRED.
 - B. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
 - C. PROTECT EXISTING UTILITIES, TREES AND PLANTS TO REMAIN.
 - D. OBTAIN PERMITS AND APPROVALS AS REQUIRED.

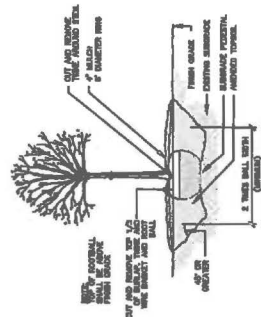


SHRUB DETAIL - CONTAINER OR BAR

1. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

2. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

3. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.



TREE DETAIL

1. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

2. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

3. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

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ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

| ITEM NO. | DESCRIPTION | QUANTITY | UNIT | PRICE |
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| 1.0 | PLANT MATERIALS | | | |
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| 1.19 | ... | ... | ... | ... |
| 1.20 | ... | ... | ... | ... |
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| 1.23 | ... | ... | ... | ... |
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| 1.27 | ... | ... | ... | ... |
| 1.28 | ... | ... | ... | ... |
| 1.29 | ... | ... | ... | ... |
| 1.30 | ... | ... | ... | ... |

PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

3.5. **INSTALLATION:**

- A. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
- B. PROTECT EXISTING UTILITIES, TREES AND PLANTS TO REMAIN.
- C. OBTAIN PERMITS AND APPROVALS AS REQUIRED.

3.6. **FINAL COMPLETION, INSPECTION, AND ACCEPTANCE:**

- A. OBTAIN PERMITS AND APPROVALS AS REQUIRED.
- B. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
- C. PROTECT EXISTING UTILITIES, TREES AND PLANTS TO REMAIN.
- D. OBTAIN PERMITS AND APPROVALS AS REQUIRED.

4. **GENERAL NOTES:**

1. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
2. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
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19. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
20. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

5. **PLANT MATERIALS:**

5.1. PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

5.2. PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

5.3. PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

6. **GENERAL NOTES:**

1. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
2. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
3. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
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19. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
20. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.

7. **PLANT MATERIALS:**

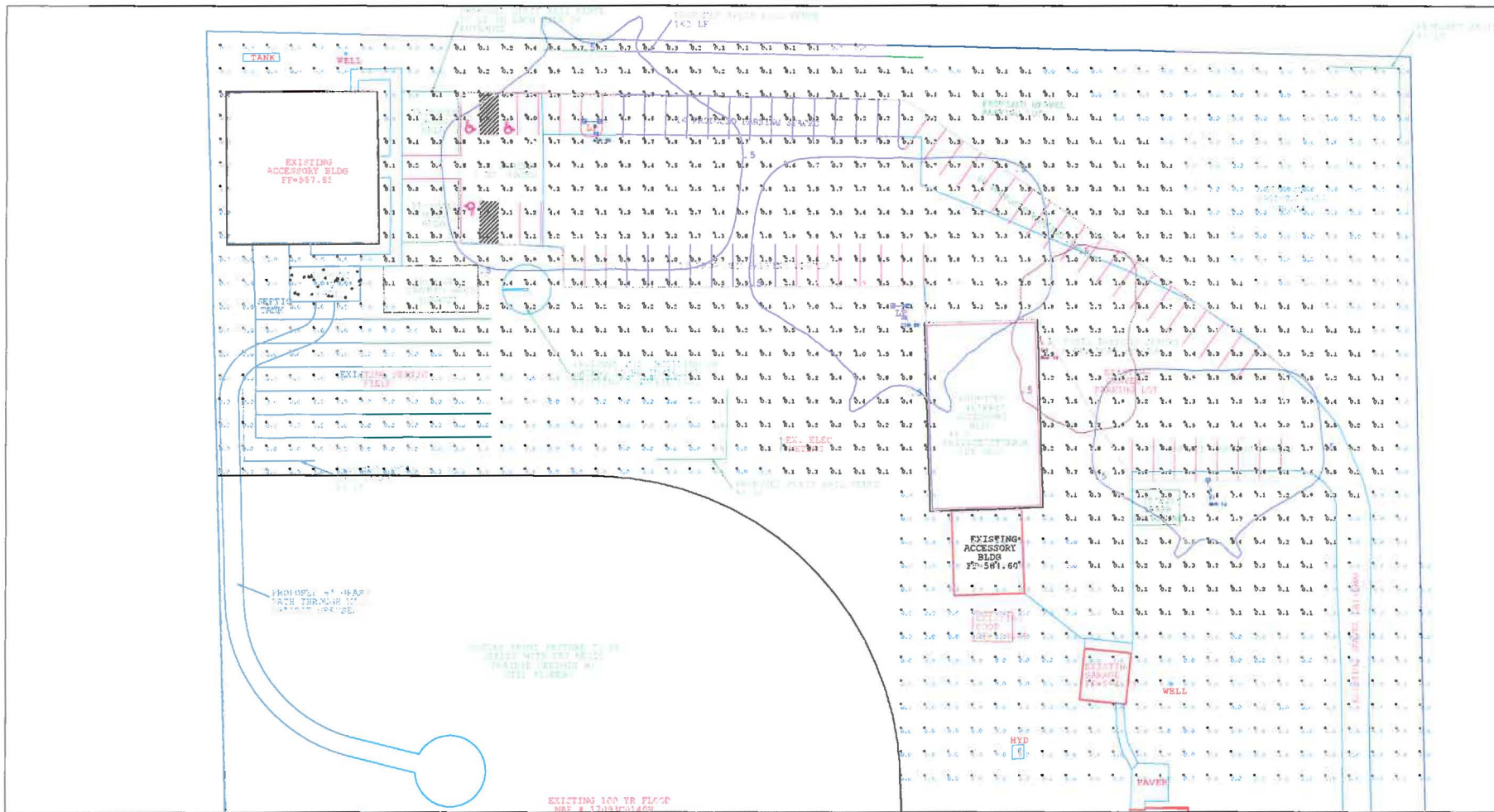
7.1. PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

7.2. PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

7.3. PLANT MATERIALS TO BE INSTALLED AT THE SITE OF THE PROJECT.

8. **GENERAL NOTES:**

1. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
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18. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
19. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.
20. MAINTAIN CLEAR ACCESS TO ALL MATERIALS AND EQUIPMENT.



Luminaire Schedule - Part numbers are provided by the manufacturer and are only intended to be used as a reference to output and optics used.

| Symbol | Qty | Tag | Label | Arrangement | Lum. Watts | Arr. Watts | Lum. Lumens | Arr. Lum. Lumens | LLF | Manufacturer | Description |
|--------|-----|-----|------------------------|-------------|------------|------------|-------------|------------------|-------|-----------------|--|
| □ | 1 | S1 | RAR2-320L-165-4K7-4W | SINGLE | 153.6 | 153.6 | 21310 | 0.900 | 0.900 | HUBBELL OUTDOOR | RAR2-320L-165-4K7-4W-U |
| □ | 2 | S2 | RAR2-320L-165-4K7-4W-2 | TWIN | 153.6 | 307.2 | 21310 | 42620 | 0.900 | HUBBELL OUTDOOR | RAR2-320L-165-4K7-4W-L / RAR2-320L-165-4K7-4W-R (rotated optics) |
| □ | 1 | W1 | LNC3-24L4K-105-4 | SINGLE | 82.8 | 82.8 | 7402 | 7402 | 0.900 | HUBBELL OUTDOOR | LNC3-24L4K-105-4 |

Calculation Summary

| Label | CalcType | Units | Avg | Max | Min | Avg/Min | Max/Min | Description |
|---------------|-------------|-------|------|-----|-----|---------|---------|------------------|
| SITE PLANNING | Illuminance | Fc | 0.83 | 9.9 | 0.0 | N.A. | N.A. | READINGS @ GRADE |
| PARKING LOT | Illuminance | Fc | 3.05 | 9.9 | 0.2 | 15.15 | 49.50 | READINGS @ GRADE |

Luminaire Location Summary

| LumNo | Tag (Qty) | Label | X | Y | Z | Orient | Tilt |
|-------|-----------|------------------------|----------|---------|----|--------|------|
| 1 | W1 (1) | LNC3-24L4K-105-4 | 982162.5 | 1774591 | 16 | 0 | 0 |
| 2 | S1 (1) | RAR2-320L-165-4K7-4W | 982234.2 | 1774518 | 16 | 90 | 0 |
| 3 | S2 (2) | RAR2-320L-165-4K7-4W-2 | 982103.4 | 1774594 | 20 | 90 | 0 |
| 4 | S2 (2) | RAR2-320L-165-4K7-4W-2 | 981972.4 | 1774673 | 20 | 270 | 0 |

Parking Lot Design Guide

| | Basic (for typical conditions) | Basic (Enhanced Security (in consideration of personnel security or vandalism)) | Security (security lighting for public spaces) | High Security (security lighting for public spaces) |
|--|--------------------------------|---|--|---|
| | lux/ft ² | lux/ft ² | lux/ft ² | lux/ft ² |
| Minimum Horizontal Illuminance (Measured on parking surface without any shadowing from any object) | 2.0/0.2 | 5.0/0.5 | 10.0/1.0 | 30.0-40.0/3.0-4.0 |
| Uniformity Ratio | 20:1 | 15:1 | 10:1 | *4:1 |
| Maximum to Minimum | | | | *Avg-High |
| Minimum Vertical Illuminance (for facial recognition measured of 5' above the parking surface of the point of lowest horizontal Illuminance) | 1.0/0.1 | 2.5/0.25 | 5.0-8.0/0.5-0.8 | 12-40/1.2-4.0 |

Recommendations based on SP-49-99, SP-20-98, 9th Edition IESNA Lighting Handbook

PG-Enlighten is neither licensed nor insured to determine code compliance. Code compliance review by others.



| # | Date | Comments |
|---|------|----------|
| | | |
| | | |

Revisors

Drawn By: Joel Collins
 Drawn By: joel.collins@pg-enlighten.com
 Date: 2/10/2021
 Scale: 1" = 20'

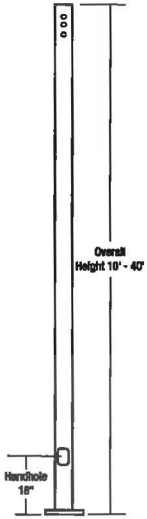
Project Name: **SABLE CREEK HOMESTEAD**
 Location: 4405 VAN DYKE RD., MINOOKA, IL

Page 1 of 1

SSS-B SERIES POLES

SQUARE STRAIGHT STEEL

| | | |
|-----------|-------------------|--|
| Cat.# | Exhibit E, Page 2 | |
| Job | Type | |
| Approvals | | |



APPLICATIONS

- Lighting installations for side and top mounting of luminaires with effective projected area (EPA) not exceeding maximum allowable loading of the specified pole in its installed geographic location

CONSTRUCTION

- SHAFT:** One-piece straight steel with square cross section, flat sides and minimum 0.23" radius on all corners; Minimum yield of 46,000 psi (ASTM-A500, Grade B); Longitudinal weld seam to appear flush with shaft side wall; Steel base plate with axial bolt circle slots welded flush to pole shaft having minimum yield of 36,000 psi (ASTM A36)
- BASE COVER:** Two-piece square aluminum base cover included standard
- POLE CAP:** Pole shaft supplied with removable cover when applicable; Tenon and post-top configurations also available
- HAND HOLE:** Rectangular 3x5 steel hand hole frame (2.38" x 4.38" opening); Mounting provisions for grounding lug located behind gasketed cover
- ANCHOR BOLTS:** Four galvanized anchor bolts provided per pole with minimum yield of 55,000 psi (ASTM F1554). Galvanized hardware with two washers and two nuts per bolt for leveling

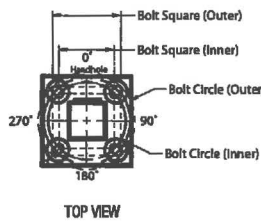
Anchor bolt part numbers: 3/4 x 30 x 3 — TAB-30-M38
1 x 36 x 4 — TAB-36-M38

FINISH

- Durable thermoset polyester powder coat paint finish with nominal 3.0 mil thickness
- Powder paint prime applied over "white metal" steel substrate cleaned via mechanical shot blast method
- Decorative finish coat available in multiple standard colors; Custom colors available; RAL number preferable

WAREHOUSE 'STOCKED' POLES:

- SSSH20-40A-4-HV-DB-RDC, SSSH25-40A-4-HV-DB-RDC and SSSH30-50B-4-HV-DB-RDC
- The HV designation in the above catalog numbers is a combination drill pattern of the Hubbell Outdoor S2 pattern and the Beacon B3/B4 Viper pattern (rectangular arm mounting)



| | | | |
|---------------------|------------------|-----------------------|------------------------|
| POLE CAP | TENON | BASE COVER | BASE DETAIL |
|---------------------|------------------|-----------------------|------------------------|

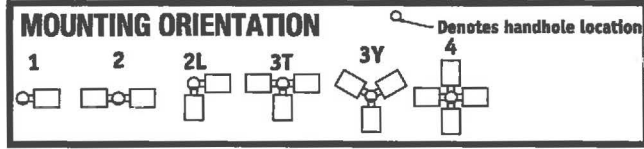
ORDERING INFORMATION

ORDERING EXAMPLE:

SSS - B - 25 - 40 - A/B/C - 2L - B3 - BLT - UL

Reference page 2 for available configurations

| SERIES | HEIGHT | SHAFT | THICKNESS | MOUNTING | FINISH | OPTIONS |
|---|----------------------------------|----------------------------------|----------------------------------|--|---|--|
| SSS-B Square Straight Steel Pole Beacon | Reference page 2 Ordering matrix | Reference page 2 Ordering matrix | Reference page 2 Ordering matrix | 1 Single arm mount 2 Two fixtures at 180° 2L Two fixtures at 90° 3T Three fixtures at 90° 4 Four fixtures at 90° TA Tenon (2.38" OD x 4" Tall) TB Tenon (2.88" OD x 4" Tall) TC Tenon (3.5" OD x 6" Tall) TR Removable Tenon (2.375 x 4.25) OT Open Top (includes pole cap) | BLT Black Matte Textured BLS Black Gloss Smooth DBT Dark Bronze Matte Textured DBS Dark Bronze Gloss Smooth GTT Graphite Matte Textured LGS Light Grey Gloss Smooth PSS Platinum Silver Smooth WHT White Matte Textured WHS White Gloss Smooth VGT Verde Green Textured Color Option CC Custom Color | GFI 20 Amp GFCI Receptacle and Cover EHH Extra Handhole C05 .5" Coupling C07 .75" Coupling C20 2" Coupling MPB Mid-pole Luminaire Bracket VM2 2nd mode vibration damper LAB Less Anchor Bolts UL UL Certified |



- Removable tenon used in conjunction with side arm mounting. First specify desired arm configuration followed by the "TR" notation. Example: SSS-B-25-40-A-1-B1-TR-BBT
- Specify option location using logic found on page 2 (Option Orientation)
- VM1 recommended on poles 20' and taller with EPA of less than 1.

ACCESSORIES - Order Separately

| Catalog Number | Description |
|----------------|---------------------------|
| VM1* | 1st mode vibration damper |
| VM2SXX | 2nd mode vibration damper |

DRILL PATTERN

- B1** Cruiser, "AM" arm
- B3** 2 bolt (2-1/2" spacing), Viper "A" arm
- S2** 2 bolt (3-1/2" spacing), Viper "AD" arm



ORDERING INFORMATION Cont.

| Catalog Number | Height | | Nominal Shaft Dimensions | Wall Thickness | Bolt Circle (suggested) | Bolt Circle (range) | Bolt Square (range) | Base Plate Square | Anchor bolt size | Bolt Projection | Pole weight |
|---------------------|--------|--------|--------------------------|----------------|-------------------------|---------------------|---------------------|-------------------|------------------|-----------------|-------------|
| | Feet | Meters | | | | | | | | | |
| SSS-B-10-40-A-XX-XX | 10 | 3.0 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 77 |
| SSS-B-12-40-A-XX-XX | 12 | 3.7 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 90 |
| SSS-B-14-40-A-XX-XX | 14 | 4.3 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 103 |
| SSS-B-16-40-A-XX-XX | 16 | 4.9 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 116 |
| SSS-B-18-40-A-XX-XX | 18 | 5.5 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 129 |
| SSS-B-20-40-A-XX-XX | 20 | 6.1 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 142 |
| SSS-B-25-40-A-XX-XX | 25 | 7.6 | 4" square | 0.125" | 9" | 8" - 10" | 5.66" - 7.07" | 9" | 3/4" x 30" x 3" | 3.5 | 175 |
| SSS-B-14-40-B-XX-XX | 14 | 4.3 | 4" square | .188" | 11" | 10" - 12" | 7.07" - 8.48" | 10.50" | 3/4" x 30" x 3" | 3.5 | 152 |
| SSS-B-16-40-B-XX-XX | 16 | 4.9 | 4" square | .188" | 11" | 10" - 12" | 7.07" - 8.48" | 10.50" | 3/4" x 30" x 3" | 3.5 | 171 |
| SSS-B-18-40-B-XX-XX | 18 | 5.5 | 4" square | .188" | 11" | 10" - 12" | 7.07" - 8.48" | 10.50" | 3/4" x 30" x 3" | 3.5 | 190 |
| SSS-B-20-40-B-XX-XX | 20 | 6.1 | 4" square | .188" | 11" | 10" - 12" | 7.07" - 8.48" | 10.50" | 3/4" x 30" x 3" | 3.5 | 209 |
| SSS-B-25-40-B-XX-XX | 25 | 7.6 | 4" square | .188" | 11" | 10" - 12" | 7.07" - 8.48" | 10.50" | 3/4" x 30" x 3" | 3.5 | 257 |
| SSS-B-30-40-B-XX-XX | 30 | 9.1 | 4" square | .188" | 11" | 10" - 12" | 7.07" - 8.48" | 10.50" | 3/4" x 30" x 3" | 3.5 | 304 |
| SSS-B-16-50-B-XX-XX | 16 | 4.9 | 5" square | .188" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 219 |
| SSS-B-18-50-B-XX-XX | 18 | 5.5 | 5" square | .188" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 243 |
| SSS-B-20-50-B-XX-XX | 20 | 6.1 | 5" square | .188" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 267 |
| SSS-B-25-50-B-XX-XX | 25 | 7.6 | 5" square | .188" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 327 |
| SSS-B-30-50-B-XX-XX | 30 | 9.1 | 5" square | .188" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 387 |
| SSS-B-25-50-C-XX-XX | 25 | 7.6 | 5" square | .25" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 427 |
| SSS-B-30-50-C-XX-XX | 30 | 9.1 | 5" square | .25" | 11" | 10.25" - 13.25" | 7.25" - 9.37" | 11.50" | 1" x 36" x 4" | 4.5 | 507 |
| SSS-B-20-60-B-XX-XX | 20 | 6.1 | 6" square | .188" | 12" | 11.00" - 13.25" | 7.81" - 9.37" | 12.25" | 1" x 36" x 6" | 4.5 | 329 |
| SSS-B-25-60-B-XX-XX | 25 | 7.6 | 6" square | .188" | 12" | 11.00" - 13.25" | 7.81" - 9.37" | 12.25" | 1" x 36" x 6" | 4.5 | 404 |
| SSS-B-30-60-B-XX-XX | 30 | 9.1 | 6" square | .188" | 12" | 11.00" - 13.25" | 7.81" - 9.37" | 12.25" | 1" x 36" x 6" | 4.5 | 479 |
| SSS-B-35-60-B-XX-XX | 35 | 10.7 | 6" square | .188" | 12" | 11.00" - 13.25" | 7.81" - 9.37" | 12.25" | 1" x 36" x 6" | 4.5 | 554 |
| SSS-B-40-60-B-XX-XX | 40 | 12.2 | 6" square | .188" | 12" | 11.00" - 13.25" | 7.81" - 9.37" | 12.25" | 1" x 36" x 6" | 4.5 | 629 |

NOTE: Factory supplied template must be used when setting anchor bolts. Beacon Products will deny any claim for incorrect anchorage placement resulting from failure to use factory supplied template and anchor bolts.

EHH - EXTRA HANDHOLE

Provision for Grounding

C05 - C07 - C20 - COUPLING

2" - 11.5 NPSC Threads
3/4" - 14 NPSC Threads
1/2" - 14 NPSC Threads

VM1 - VIBRATION DAMPER 1ST MODE

Field Installed Pole Top damper designed to reduce pole top deflection or sway. VM1 is recommended for pole systems 25' and taller with a total EPA of 1.0 or less.

VM2 - VIBRATION DAMPER 2ND MODE

Factory installed, internal damper designed to after pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2SXX - VIBRATION DAMPER 2ND MODE

Field Installed, internal damper designed to after pole resonance to reduce movement and material fatigue caused by 2nd mode vibration.

VM2S08 - 8'
VM2S12 - 12'
VM2S16 - 16'
VM2S20 - 20'
VM2S24 - 24'

GFI - 20 AMP GFCI RECEPTACLE & COVER

Square aluminum pole
Standard hand hole frame
Adapter plate
Gasket
20 AMP GFCI
Wet Locations In-use Cover

MPB - MID POLE BRACKET

Square Steel Pole
Attachment stub 5" long welded to pole
2" pipe tenon 4.25" tall
Arm, 3" Sq. x 13.5" long ships separately

OPTION ORIENTATION

Follow the logic below when ordering location specific options. For each option, include its orientation (in degrees) and its height (in feet). Example: Option C07 should be ordered as: SSS-B-20-40-A-TA-DB-C05-0-15 (5" coupling on the handhole/arm side of pole, 15 feet up from the pole base) 1' spacing required between option. Consult factory for other configurations.

Height of option to base
0°
90°
180°
270°
Bolt Square (Outer)
Bolt Square (Inner)
Bolt Circle (Outer)
Bolt Circle (Inner)

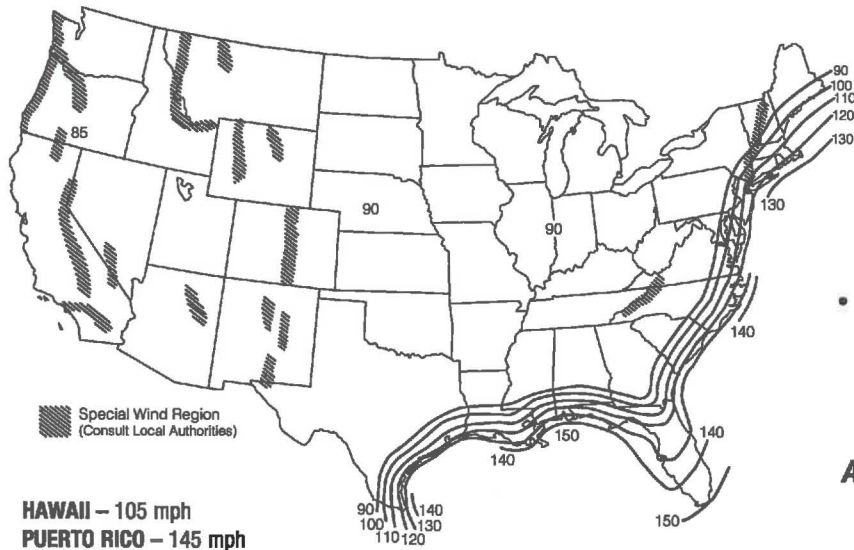
For more information about pole vibration and vibration dampers, please consult https://hubbellcdn.com/ohwassets/HI/Outdoor/resources/literature/files/Pole_Wind_Induced_Flyer_HI.010022.pdf
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.



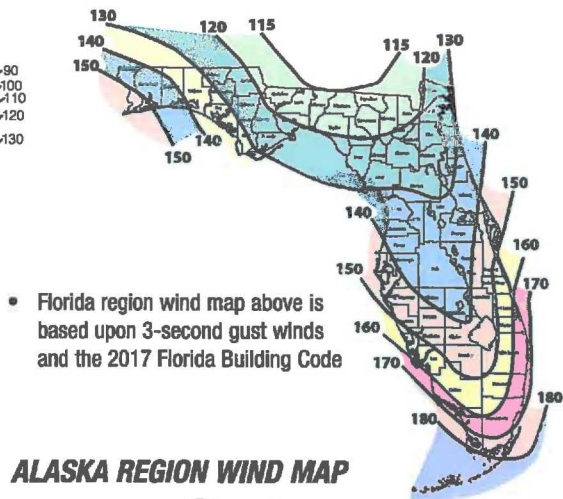
Beacon Products • 701 Millennium Blvd, Greenville, SC 29607 • Phone: 864-678-1000
 Due to our continued efforts to improve our products, product specifications are subject to change without notice.
 © 2020 BEACON PRODUCTS, All Rights Reserved • For more information visit our website: www.beaconproducts.com • Printed in USA



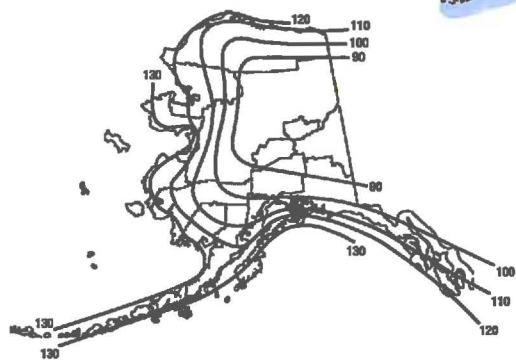
ASCE7-05 WIND MAP



FLORIDA REGION WIND MAP



ALASKA REGION WIND MAP



| ASCE 7-05 wind map EPA Load Rating - 3 second gust wind speeds (Use for all locations except Florida) | | | | | | | | | | |
|--|------|------|------|------|------|------|------|------|------|------|
| Catalog Number | 85 | 90 | 100 | 105 | 110 | 120 | 130 | 140 | 145 | 150 |
| SSS-B-10-40-A | 25.0 | 25.0 | 25.0 | 22.8 | 20.8 | 17.0 | 14.2 | 11.9 | 11.0 | 10.1 |
| SSS-B-12-40-A | 25.0 | 25.0 | 20.0 | 18.0 | 16.1 | 13.2 | 10.8 | 8.9 | 8.1 | 7.4 |
| SSS-B-14-40-A | 23.1 | 20.4 | 16.1 | 14.3 | 12.8 | 10.2 | 8.2 | 6.6 | 5.9 | 5.3 |
| SSS-B-16-40-A | 19.0 | 16.7 | 13.0 | 11.5 | 10.1 | 7.9 | 6.2 | 4.7 | 4.1 | 3.6 |
| SSS-B-18-40-A | 15.6 | 13.6 | 10.0 | 9.0 | 7.8 | 5.9 | 4.4 | 3.1 | 2.6 | 2.1 |
| SSS-B-20-40-A | 12.7 | 10.9 | 7.9 | 6.9 | 5.9 | 4.2 | 2.8 | 1.7 | 1.3 | 0.9 |
| SSS-B-25-40-A | 7.3 | 5.9 | 3.8 | 2.9 | 2.1 | 0.8 | NR | NR | NR | NR |
| SSS-B-14-40-B | 25.0 | 25.0 | 23.3 | 20.8 | 18.6 | 15.1 | 12.3 | 10.2 | 9.2 | 8.4 |
| SSS-B-16-40-B | 25.0 | 24.9 | 19.4 | 17.3 | 15.4 | 12.3 | 9.9 | 8.0 | 7.2 | 6.4 |
| SSS-B-18-40-B | 24.0 | 20.8 | 16.1 | 14.2 | 12.5 | 9.8 | 7.7 | 6.1 | 5.3 | 4.7 |
| SSS-B-20-40-B | 20.2 | 17.5 | 13.2 | 11.6 | 10.1 | 7.7 | 5.9 | 4.4 | 3.8 | 3.2 |
| SSS-B-25-40-B | 12.8 | 11.0 | 7.9 | 6.7 | 5.5 | 3.7 | 2.3 | 1.2 | 0.7 | NR |
| SSS-B-30-40-B | 8.0 | 6.6 | 4.1 | 3.1 | 2.2 | 0.8 | NR | NR | NR | NR |
| SSS-B-16-50-B | 25.0 | 25.0 | 25.0 | 25.0 | 24.8 | 20.1 | 16.5 | 13.6 | 12.3 | 11.2 |
| SSS-B-18-50-B | 25.0 | 25.0 | 25.0 | 22.9 | 20.4 | 16.4 | 13.2 | 10.7 | 9.6 | 8.6 |
| SSS-B-20-50-B | 25.0 | 25.0 | 21.3 | 18.9 | 16.7 | 13.2 | 10.4 | 8.1 | 7.2 | 6.3 |
| SSS-B-25-50-B | 20.7 | 17.8 | 13.3 | 11.5 | 9.8 | 7.2 | 5.0 | 3.3 | 2.6 | 1.9 |
| SSS-B-30-50-B | 13.5 | 11.3 | 7.7 | 6.2 | 4.9 | 2.8 | 1.1 | NR | NR | NR |
| SSS-B-25-50-C | 25.0 | 25.0 | 19.4 | 17.1 | 15.1 | 11.7 | 9.0 | 6.9 | 6.0 | 5.1 |
| SSS-B-30-50-C | 20.1 | 17.3 | 12.7 | 10.9 | 9.3 | 6.6 | 4.5 | 2.8 | 2.1 | 1.4 |
| SSS-B-20-60-B | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 20.2 | 16.1 | 12.9 | 11.5 | 10.3 |
| SSS-B-25-60-B | 25.0 | 25.0 | 20.6 | 18.0 | 15.6 | 11.8 | 8.7 | 6.2 | 5.2 | 4.2 |
| SSS-B-30-60-B | 21.4 | 18.1 | 12.9 | 10.7 | 8.8 | 5.7 | 3.3 | 1.3 | NR | NR |
| SSS-B-35-60-B | 14.0 | 11.3 | 6.9 | 5.2 | 3.6 | 1.0 | NR | NR | NR | NR |
| SSS-B-40-60-B | 8.1 | 5.8 | 2.2 | nr | NR | NR | NR | NR | NR | NR |

| Florida Building Code 2017 EPA Load Rating - 3 second gust wind speeds (Use for Florida only) | | | | | | | | |
|--|------|------|------|------|------|------|------|------|
| Catalog Number | 115 | 120 | 130 | 140 | 150 | 160 | 170 | 180 |
| SSS-B-10-40-A | 25.0 | 25.0 | 25.0 | 25.0 | 21.4 | 18.4 | 15.9 | 13.9 |
| SSS-B-12-40-A | 25.0 | 25.0 | 23.6 | 19.8 | 16.7 | 14.2 | 12.1 | 10.4 |
| SSS-B-14-40-A | 25.0 | 23.1 | 19.0 | 15.7 | 13.1 | 10.9 | 9.1 | 7.6 |
| SSS-B-16-40-A | 20.8 | 18.7 | 15.2 | 12.3 | 10.1 | 8.2 | 6.7 | 5.4 |
| SSS-B-18-40-A | 16.8 | 15.0 | 11.9 | 9.4 | 7.5 | 5.9 | 4.5 | 3.4 |
| SSS-B-20-40-A | 13.6 | 11.9 | 9.2 | 7.1 | 5.3 | 3.9 | 2.7 | 1.7 |
| SSS-B-25-40-A | 7.4 | 6.2 | 4.1 | 2.5 | 1.1 | NR | NR | NR |
| SSS-B-14-40-B | 25.0 | 23.6 | 19.4 | 16.1 | 13.4 | 11.2 | 9.4 | 7.8 |
| SSS-B-16-40-B | 21.4 | 19.2 | 15.6 | 12.7 | 10.4 | 8.5 | 6.9 | 5.6 |
| SSS-B-18-40-B | 17.2 | 15.4 | 12.2 | 9.7 | 7.7 | 6.1 | 4.7 | 3.6 |
| SSS-B-20-40-B | 13.9 | 12.3 | 9.5 | 7.3 | 5.5 | 4.1 | 2.9 | 1.9 |
| SSS-B-25-40-B | 7.7 | 6.4 | 4.3 | 2.6 | 1.3 | NR | NR | NR |
| SSS-B-30-40-B | 3.2 | 2.1 | NR | NR | NR | NR | NR | NR |
| SSS-B-16-50-B | 25.0 | 25.0 | 25.0 | 25.0 | 25.0 | 21.4 | 18.2 | 15.5 |
| SSS-B-18-50-B | 25.0 | 25.0 | 25.0 | 24.4 | 20.4 | 17.0 | 14.2 | 11.9 |
| SSS-B-20-50-B | 25.0 | 25.0 | 24.4 | 19.9 | 16.3 | 13.4 | 11.0 | 8.9 |
| SSS-B-25-50-B | 21.8 | 19.3 | 15.0 | 11.5 | 8.8 | 6.5 | 4.7 | 3.1 |
| SSS-B-30-50-B | 13.7 | 11.7 | 8.2 | 5.5 | 3.3 | 1.5 | NR | NR |
| SSS-B-25-50-C | 21.8 | 19.3 | 15.0 | 11.5 | 8.8 | 6.5 | 4.7 | 3.1 |
| SSS-B-30-50-C | 13.7 | 11.7 | 8.2 | 5.5 | 3.3 | 1.5 | NR | NR |
| SSS-B-20-60-B | 25.0 | 25.0 | 25.0 | 21.9 | 17.8 | 14.5 | 11.7 | 9.4 |
| SSS-B-25-60-B | 23.8 | 20.9 | 16.1 | 12.3 | 9.2 | 6.6 | 4.5 | 2.8 |
| SSS-B-30-60-B | 14.6 | 12.3 | 8.4 | 5.3 | 2.8 | 0.8 | NR | NR |
| SSS-B-35-60-B | 7.5 | 5.6 | 2.4 | NR | NR | NR | NR | NR |
| SSS-B-40-60-B | 1.8 | NR | NR | NR | NR | NR | NR | NR |



NOTES**Wind-speed Website disclaimer:**

Hubbell Lighting has no connection to the linked website and makes no representations as to its accuracy. While the information presented on this third-party website provides a useful starting point for analyzing wind conditions, Hubbell Lighting has not verified any of the information on this third party website and assumes no responsibility or liability for its accuracy. The material presented in the windspeed website should not be used or relied upon for any specific application without competent examination and verification of its accuracy, suitability and applicability by engineers or other licensed professionals. Hubbell Lighting Inc. does not intend that the use of this information replace the sound judgment of such competent professionals, having experience and knowledge in the field of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the results of the windspeed report provided by this website. Users of the information from this third party website assume all liability arising from such use. Use of the output of these referenced websites do not imply approval by the governing building code bodies responsible for building code approval and interpretation for the building site described by latitude/longitude location in the windspeed report. <http://windspeed.atcouncil.org>

NOTES

- Allowable EPA, to determine max pole loading weight, multiply allowable EPA by 30 lbs.
- The tables for allowable pole EPA are based on the ASCE 7-05 Wind Map or the Florida Region Wind Map for the 2010 Florida Building Code. The Wind Maps are intended only as a general guide and cannot be used in conjunction with other maps. Always consult local authorities to determine maximum wind velocities, gusting and unique wind conditions for each specific application
- Allowable pole EPA for jobsite wind conditions must be equal to or greater than the total EPA for fixtures, arms, and accessories to be assembled to the pole. Responsibility lies with the specifier for correct pole selection. Installation of poles without luminaires or attachment of any unauthorized accessories to poles is discouraged and shall void the manufacturer's warranty
- Wind speeds and listed EPAs are for ground mounted installations. Poles mounted on structures (such as bridges and buildings) must consider vibration and coefficient of height factors beyond this general guide; Consult local and federal standards
- Wind Induced Vibration brought on by steady, unidirectional winds and other unpredictable aerodynamic forces are not included in wind velocity ratings. Consult Hubbell Lighting's Pole Vibration Application Guide for environmental risk factors and design considerations. https://hubbellinc.com/ohwassets/HLL/outdoor/resources/literature/Files/Pole_Wind_Induced_Vibr_HL000022.pdf
- Extreme Wind Events like, Hurricanes, Typhoons, Cyclones, or Tornadoes may expose poles to flying debris, wind shear or other detrimental effects not included in wind velocity ratings

Due to our continued efforts to improve our products, product specifications are subject to change without notice.

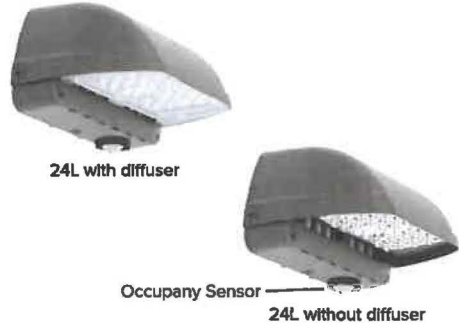


LNC3

MEDIUM LED LITEPAK

FEATURES

- Litepak LNC3 is a mid-sized wallpack in the popular Litepak series
- The LNC3 features luminaires with TIR optics and four different lumen packages, multiple distributions and CCT for maximum light level and mounting height flexibility
- Capable of replacing up to 250w HID solutions at over 70% energy savings
- Energy efficient LEDs provide 70%+ energy savings with little to no maintenance when compared to traditional light sources
- Typical mounting heights of 8-20"



RELATED PRODUCTS

- [LNC](#) [INC2](#) [LNC4](#)



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Die-cast aluminum housing protects components and provides an architectural appearance
- Casting thermally conducts LED heat to optimize performance and long life
- Powder paint finish provides durability in outdoor environments
- Four 1/2" conduit entries (top, bottom, and sides) provided for surface conduit
- Zero uplight distributions using individual acrylic LED optics provide IES type II, III and IV distributions
- CS - Frosted acrylic diffuser option for reduced glare
- CSU - Frosted acrylic diffuser for inverted "up" mounting applications (lens required)

OPTICS

- Ambient operating temperature -40°C to 40°C
- 3000K, 4000K and 5000K CCT nominal with 70 CRI
- Available in 4 or 24 LED configuration
- L70 at 60,000 hrs (Projected per IESNA TM-21-11), see table on page 3 for all values

INSTALLATION

- Quick-mount adapter with gasket seal provides easy installation to wall or to recessed junction box (4" square junction box)

INSTALLATION (CONTINUED)

- Fixture attaches by two Allen-head hidden fasteners for tamper resistance
- Designed for direct j-box mount or conduit feed on all four sides in single SKU

ELECTRICAL

- 120-277, 347 and 480 voltage, 50/60Hz, 0-10V dimming drivers
- Electronic driver
- 10kA surge protection

CONTROLS

- Button photocontrol for dusk to dawn energy savings
- 7-pin photo-receptacle available for twist lock photocell and controls by others
- Occupancy sensor options available for complete on/off and dimming control
- SiteSync pre-commissioned wireless controls (with or without sensor)
- In addition, LITEPAK can be specified with SiteSync™ wireless control system for reduction in energy and maintenance cost while optimizing light quality 24/7
- See ordering information or visit www.hubbellighting.com/sitesync for more details

CERTIFICATIONS

- DLC® DesignLights Consortium Qualified, with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- Listed to UL1598 and CSAC22.2#250.0-24 for wet locations
- IP65 Assembly
- IDA Approved (3000K configurations)

WARRANTY

- 5 year limited warranty
- See [HLI Standard Warranty](#) for additional information

| KEY DATA | |
|--------------------------------|-------------|
| Lumen Range | 2,991–7,603 |
| Wattage Range | 28–83 |
| Efficacy Range (LPW) | 84–115 |
| Fixture Projected Life (Hours) | L70>60K |
| Weights lbs. (kg) | 18.0 (8.2) |

LNC3

MEDIUM LED LITEPAK

ORDERING GUIDE

Example: LNC3-24L-3K-035-2-U-DBT-PCU

CATALOG #

ORDERING INFORMATION

| Series | # LEDs | CCT/CRI | Drive Current | IES Distribution | Voltage |
|------------------------------|------------|--|---|---|--|
| LNC3 Medium Litepak Wallpack | 24L 24LEDs | 3K 3000K nominal, 70 CRI 4K 4000K nominal, 70 CRI 5K 5000K nominal, 70 CRI | 035 350mA 050 500mA 075 750mA 105 1050mA | 2 Type II ¹ 3 Type III ¹ 4 Type IV ¹ | U 120-277V 1 120V ¹ 2 208V ¹ 3 240V ¹ 4 277V ¹ 5 480V ¹ F 347V ¹ |

| Finish | Control Options |
|---------------------------------------|--|
| BLT Black Matte Textured | PCU Universal Button Photocontrol |
| BLS Black Gloss Smooth | 7PR 7pin PCR ⁸ |
| DBT Dark Bronze Matte Textured | SCP Programmable occupancy sensor ^{3,4} |
| DBS Dark Bronze Gloss Smooth | SWP SiteSync Pre-Commission ^{9,10} |
| GTT Graphite Matte Textured | SWPM SiteSync Pre-commission w/ OCC Sensor ^{4,2A,10} |
| LGS Light Grey Gloss Smooth | |
| PSS Platinum Silver Smooth | |
| WHT White Matte Textured | |
| WHS White Gloss Smooth | |
| VG Verde Green Textured | |
| Color Option | |
| CC Custom Color | |

| Options |
|---|
| F Fusing (must specify voltage per footnote) |
| CS Frosted acrylic diffuser |
| CSU Inverted/Up mounting frosted acrylic diffuser (required for up/inverted fixture installations, factory install only see page 3) ² |
| E Integral battery backup rated for 0°C ¹⁰ |
| EH Integral battery backup with heater rated for -30°C ¹⁰ |
| 2DR Dual Driver ⁹ |

Notes:

- Must specify voltage (120 or 277 only for E & EH)
- Factory Install only. Not available with SCP or SWPM sensor/control options
- Must order minimum of one remote control to program dimming settings, 0-10V fully adjustable dimming with automatic daylight calibration and different time delay settings, 120-277V only
- PCU option not applicable, included in sensor (8F = up to 8ft, 20F = up to 20ft)
- 350mA, 500mA & 750mA versions only. Not available with F, SWP or SWPM options
- Accepts standard 3, 5, and 7-Pin ANSI controls (by others). Not available with PCU, SWP or SWPM control options
- Must specify group and zone information at time or order. See www.HubbellLighting.com/products/sitesync for future details
- Specify time delay, dimming level and mounting height
- 750mA and 1050mA versions only, not available with 347/480V
- 1050mA only, not available with 347V or 480V

ACCESSORIES AND SERVICES (ORDERED SEPARATELY)

| Catalog Number | Description |
|--|---|
| <input type="checkbox"/> LNC3-CS | Frosted acrylic comfort shield/lens, reduces glare and improves uniformity with only 20% lumen reduction |
| <input type="checkbox"/> SCP-Remote | Remote Control for SCP/_F option. Order at least one per project to program and control the occupancy sensor |
| <input type="checkbox"/> SWUSB | SiteSync Interface software loaded on USB flash drive for use with owner supplied PC (Windows based only). Includes SiteSync license, software and USB radio bridge node ⁷ |
| <input type="checkbox"/> SWTAB | Windows tablet and SiteSync interface software. Includes tablet with preloaded software, SiteSync license and USB radio bridge node ⁷ |
| <input type="checkbox"/> SWBRG | SiteSync USB radio bridge node only. Order if a replacement is required or if an extra bridge node is requested |
| <input type="checkbox"/> SW7PR | SiteSync 7 Pin on fixture module On/Off/Dim, Daylight Sensor 120-480VAC ⁸ |

Notes:

- * When ordering SiteSync at least one of these two interface options must be ordered per project
- + Available as a SiteSync retrofit solution for fixtures with an existing 7pin receptacle

Hubbell Control Solutions — Accessories (Sold Separately)

NX Distributed Intelligence™

- NXOFM-IRID-UNV** On-fixture Module (7-pin), On / Off / Dim, Daylight Sensor with HubbNET Radio and Bluetooth® Radio, 120-480VAC

wiSCAPE® Lighting Control

- WIR-RME-L** On-fixture Module (7-pin or 5-pin), On / Off / Dim, Daylight Sensor with wiSCAPE Radio, 110-480VAC

For additional information related to these accessories please visit www.hubbellcontrolsolutions.com. Options provided for use with integrated sensor, please view specification sheet ordering information table for details.

LNC3

MEDIUM LED LITEPAK

CONTROLS

SiteSync — Precommissioned Ordering Information:

When ordering a fixture with the SiteSync lighting control option, additional information will be required to complete the order. The SiteSync Commissioning Form or alternate schedule information must be completed. This form includes Project location, Group information, and Operating schedules. For more detailed information please visit [the SiteSync family page on our website](#) or contact Hubbell Lighting tech support at 800-345-4928.



SiteSync fixtures with Motion control (SWPM) require the mounting height of the fixture for selection of the lens.

Examples: LNC3-24L-4K-075-3-U-BL-SWP

SiteSync only

LNC3-24L-4K-075-3-U-BL-SWPM-20F

SiteSync with Motion Control

SiteSync 7-Pin Module:

- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)
- Does not interface with occupancy sensors



SW7PR

PERFORMANCE DATA

| # Of LEDs | Nominal Wattage | System Watts | Dist. Type | 5K (5000K NOMINAL 70 CRI) | | | | | 4K (4000K NOMINAL 70 CRI) | | | | | 3K (3000K NOMINAL 80 CRI) | | | | |
|-----------|-----------------|--------------|------------|---------------------------|------|---|---|---|---------------------------|------|---|---|---|---------------------------|------|---|---|---|
| | | | | Lumens | LPW* | B | U | G | Lumens | LPW* | B | U | G | Lumens | LPW* | B | U | G |
| 4 | N/A | N/A | E | 671 | - | - | - | - | 657 | - | - | - | - | 591 | - | - | - | - |
| 24 | 350mA | 28 | 2 | 3,212 | 115 | 1 | 0 | 1 | 3,145 | 113 | 1 | 0 | 1 | 2,991 | 107 | 1 | 0 | 1 |
| | | | 3 | 3,160 | 113 | 1 | 0 | 1 | 3,094 | 111 | 1 | 0 | 1 | 2,944 | 106 | 1 | 0 | 1 |
| | | | 4 | 3,182 | 114 | 1 | 0 | 1 | 3,116 | 112 | 1 | 0 | 1 | 2,964 | 106 | 1 | 0 | 1 |
| | 500mA | 41 | 2 | 4,143 | 101 | 1 | 0 | 2 | 4,057 | 99 | 1 | 0 | 2 | 3,858 | 94 | 1 | 0 | 2 |
| | | | 3 | 4,076 | 99 | 1 | 0 | 1 | 3,991 | 97 | 1 | 0 | 1 | 3,797 | 93 | 1 | 0 | 1 |
| | | | 4 | 4,104 | 100 | 1 | 0 | 1 | 4,019 | 98 | 1 | 0 | 1 | 3,823 | 93 | 1 | 0 | 1 |
| | 750mA | 60 | 2 | 5,918 | 99 | 1 | 0 | 2 | 5,795 | 97 | 1 | 0 | 2 | 5,512 | 92 | 1 | 0 | 2 |
| | | | 3 | 5,823 | 97 | 1 | 0 | 2 | 5,702 | 95 | 1 | 0 | 2 | 5,424 | 90 | 1 | 0 | 2 |
| | | | 4 | 5,863 | 98 | 1 | 0 | 2 | 5,741 | 96 | 1 | 0 | 2 | 5,461 | 91 | 1 | 0 | 2 |
| | 1050mA | 83 | 2 | 7,630 | 92 | 2 | 0 | 2 | 7,472 | 90 | 2 | 0 | 2 | 7,107 | 86 | 2 | 0 | 2 |
| | | | 3 | 7,508 | 90 | 1 | 0 | 2 | 7,352 | 89 | 1 | 0 | 2 | 6,993 | 84 | 1 | 0 | 2 |
| | | | 4 | 7,559 | 91 | 1 | 0 | 2 | 7,402 | 89 | 1 | 0 | 2 | 7,041 | 85 | 1 | 0 | 2 |

ELECTRICAL DATA

| # OF LEDs | Drive Current (mA) | Input Voltage (V) | Oper. Current (Amps) | System Power (W) |
|-----------|--------------------|-------------------|----------------------|------------------|
| 24 | 350mA | 120 | 0.23 | 28 |
| | | 277 | 0.10 | 28 |
| | | 347 | 0.08 | 28 |
| | | 480 | 0.06 | 28 |
| | 500mA | 120 | 0.34 | 41 |
| | | 277 | 0.15 | 41 |
| | | 347 | 0.12 | 41 |
| | | 480 | 0.09 | 41 |
| | 750mA | 120 | 0.50 | 60 |
| | | 277 | 0.22 | 60 |
| | | 347 | 0.17 | 60 |
| | | 480 | 0.13 | 60 |
| 1050mA | 120 | 0.69 | 83 | |
| | 277 | 0.30 | 83 | |
| | 347 | 0.24 | 83 | |
| | 480 | 0.17 | 83 | |

PROJECTED LUMEN MAINTENANCE

| Ambient Temperature | OPERATING HOURS | | | | | |
|---------------------|-----------------|--------|--------|----------------------|---------|-------------|
| | 0 | 25,000 | 50,000 | TM-21-11* L96 60,000 | 100,000 | L70 (Hours) |
| 25°C / 77°F | 1.00 | 0.97 | 0.94 | 0.93 | 0.89 | >296,000 |
| 40°C / 104°F | 1.00 | 0.95 | 0.91 | 0.89 | 0.83 | >191,000 |

* Projected per IESNA TM-21-11* (Nichia 219B, 700mA, 85°C Ts, 10,000hrs). Data references the extrapolated performance projections for the LNC-12LU-5K base model in a 40°C ambient, based on 10,000 hours of LED testing per IESNA LM-80-08.

LNC3

MEDIUM LED LITEPAK

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

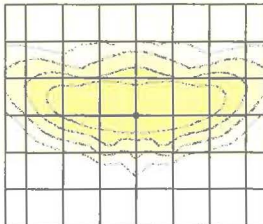
| Ambient Temperature | | Lumen Multiplier |
|---------------------|--------|------------------|
| 0° C | 32° F | 1.02 |
| 10° C | 50° F | 1.01 |
| 20° C | 68° F | 1.00 |
| 25° C | 77° F | 1.00 |
| 30° C | 86° F | 1.00 |
| 40° C | 104° F | 0.99 |

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PHOTOMETRY

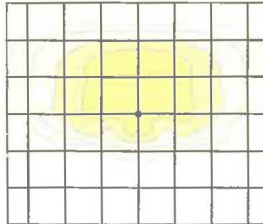
The following diagrams represent the general distribution options offered for this product. For detailed information on specific product configurations, see [website photometric test reports](#).

LNC3 – Type II



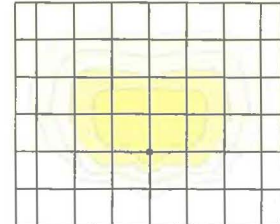
Mounting Height: 15'

LNC3 – Type III



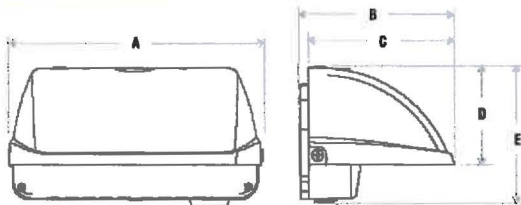
Mounting Height: 15'

LNC3 – Type IV



Mounting Height: 15'

DIMENSIONS



| A | B | C | D | E | Weight |
|----------|----------|----------|----------|----------|----------|
| 13" | 10.5" | 9.9" | 5.8" | 8.3" | 25.0 lbs |
| (330 mm) | (267 mm) | (251 mm) | (147 mm) | (211 mm) | 11.3 kg |

ADDITIONAL INFORMATION

CSU – INVERTED MOUNTING OPTION



*Requires Factory Installed Lens Option

Inverted mounting capabilities for uplighting applications. Specially designed frosted acrylic diffuser option softens output, improves uniformity and protects LED lenses.

SCP - PROGRAMMABLE OCCUPANCY SENSOR



*Photocontrol and Wireless Controls by Others

Standard NEMA 7-Pin receptacle for twist lock photocell or wireless controls (by others).

SCP – PROGRAMMABLE OCCUPANCY SENSOR



Sensor offers greater control and energy savings with SCP programmable sensor with adjustable delay and dimming levels (Factory default is 10%)

Visit: <http://www.hubbellighting.com/solutions/controls/> for control application information

SHIPPING INFORMATION

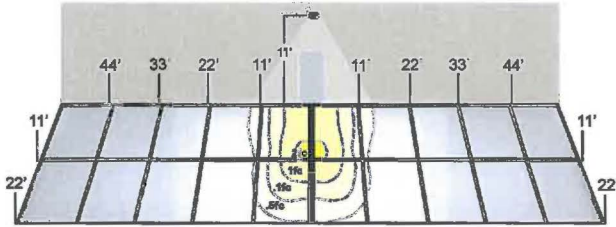
| Catalog Number | G.W(kg)/CTN | Carton Dimensions | | | Carton Qty. per Master Pack |
|----------------|-------------|-------------------|-----------------|------------------|-----------------------------|
| | | Length Inch (cm) | Width Inch (cm) | Height Inch (cm) | |
| LNC3-24LU | 18.0 (8.2) | 15.8 (40) | 11.0 (28) | 13.0 (33) | 1 |

LNC3

MEDIUM LED LITEPAK

ADDITIONAL INFORMATION (CONTINUED)

LNC2 - BATTERY BACK UP



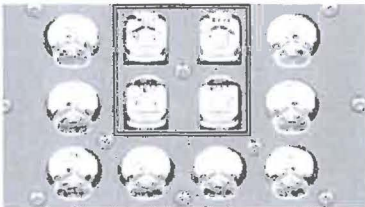
11' Mounting Height

Provides Life Safety Code average illuminance of 1.0 fc. Assumes open space with no obstructions and mounting height of 11'.

Diagrams for illustration purposes only, please consult factory for application layout.

Battery backup units consume 6 watts when charging a dead battery and 2 watts during maintenance charging. EH (units with a heater) consume up to an additional 8 watts when charging if the battery temp is lower than 10°C

E & EH EMERGENCY BATTERY BACKUP



24 High Power LEDs generate up to 7,500 lumens in Normal Mode, and use 4 LEDs for up to 700 lumens in emergency.

USE OF TRADEMARKS AND TRADE NAMES

All product and company names, logos and product identifies are trademarks™ or registered trademarks® of Hubbell Lighting, Inc. or their respective owners. Use of them does not necessarily imply any affiliation with or endorsement by such respective owners.

RATIO Series

AREA/SITE LIGHTER

FEATURES

- Low profile LED area/site luminaire with a variety of IES distributions for lighting applications such as retail, commercial and campus parking lots
- Featuring Micro Strike Optics which maximizes target zone illumination with minimal losses at the house-side, reducing light trespass issues
- Visual comfort standard
- Compact and lightweight design with low EPA
- 3G rated for high vibration applications including bridges and overpasses
- Control options including photo control, occupancy sensing, NX Distributed Intelligence™ and 7-Pin with networked controls
- Best in class surge protection available



RELATED PRODUCTS

- Alro
 Cimarron LED
 Ratio Family



CONTROL TECHNOLOGY



SPECIFICATIONS

CONSTRUCTION

- Rectilinear form mimics the traditional shoebox form factor keeping a similar but updated style and appearance, ideal for retrofit applications
- 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

OPTICS

- Entire optical aperture illuminates to create a larger luminous surface area resulting in a low glare appearance without sacrificing optical performance
- 80, 160, 320 or 480 midpower LEDs
- 3000K, 4000K or 5000K (70 CRI) CCT
- Zero uplight at 0 degrees of tilt
- Field rotatable optics

INSTALLATION

- Standard square arm mount, compatible with B3 drill pattern
- Optional universal mounting block for ease of installation during retrofit applications. Available as an option or accessory for square and round poles.
- Knuckle arm fitter option available for 2-3/8" OD tenon. Max tilt of 60 degrees with 4 degree adjustable increments. (Restrictions apply for 7-pin options)

ELECTRICAL

- Universal 120-277 VAC or 347-480 VAC input voltage, 50/60 Hz

ELECTRICAL (CONTINUED)

- Ambient operating temperature -40°C to 40°C
- Drivers have greater than 90% power factor and less than 20% THD
- LED drivers have output power over-voltage, over-current protection and short circuit protection with auto recovery
- 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 compromised

CONTROLS

- Photo control, occupancy sensor and wireless available for complete on/off and dimming control
- 7-pin ANSI C136.41-2013 photocontrol receptacle option available for twist lock photocontrols or wireless control modules (control accessories sold separately)
- 0-10V dimming leads available for use with control devices (provided by others, must specify lead length)
- SiteSync™ wireless control system is available via 7-pin See ordering information and details at: www.hubbellighting.com/sitesync
- NX Distributed Intelligence™ available with in fixture wireless control module, features dimming and occupancy sensor
- wiSCAPE® available with in fixture wireless control module, features dimming and occupancy sensor via 7-pin

CERTIFICATIONS

- DLC® (DesignLights Consortium Qualified), with some Premium Qualified configurations. Please refer to the DLC website for specific product qualifications at www.designlights.org
- Listed to UL1598 and CSA C22.2#250.0-24 for wet locations and 40°C ambient temperatures
- 3G rated for ANSI C136.31 high vibration applications
- Fixture is IP66 rated
- Meets IDA recommendations using 3K CCT configuration at 0 degrees of tilt
- 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 HLI Standard Warranty for additional information

| KEY DATA | |
|--------------------------------|--------------------|
| Lumen Range | 3,000–48,000 |
| Wattage Range | 25–340 |
| Efficacy Range (LPW) | 118–155 |
| Fixture Projected Life (Hours) | L70>60K |
| Weights lbs. (kg) | 13.5–24 (6.1–10.9) |

RATIO SERIES

AREA/SITE LIGHTER

ORDERING GUIDE

Example: RAR1-80L-25-3K7-2-UNV-ASQ-BL-NXWE-BC

CATALOG # _____

ORDERING INFORMATION

| Series | # LEDs - Wattage | CCT/CRI | Distribution | Optics Rotation | Voltage |
|-------------------------------|--------------------------------------|--------------------------|-----------------------|-------------------------------|-------------------------------|
| RAR1 Ratio Area Size 1 | 80L-25 25W - 3,000 Lumens | 3K7 3000K, 70 CRI | 2 IES TYPE II | Blank for no rotation | UNV Universal 120-277V |
| | 80L-39 39W - 5,200 Lumens | 4K7 4000K, 70 CRI | 3 IES TYPE III | L Optic rotation left | 120 120V |
| | 80L-50 50W - 6,000 Lumens | 5K7 5000K, 70 CRI | 4W IES TYPE IV | R Optic rotation right | 208 208V |
| | 160L-70 70W - 9,000 Lumens | | 5QW IES TYPE V | | 240 240V |
| | 160L-100 100W - 12,000 Lumens | | | | 277 277V |
| | 160L-115 115W - 15,000 Lumens | | | | 347 347V |
| | 160L-135 135W - 18,000 Lumens | | | | 480 480V |
| RAR2 Ratio Area Size 2 | 320L-110 110W - 15,000 Lumens | | | | |
| | 320L-140 140W - 18,000 Lumens | | | | |
| | 320L-165 165W - 21,000 Lumens | | | | |
| | 480L-185 185W - 24,000 Lumens | | | | |
| | 480L-210 210W - 27,000 Lumens | | | | |
| | 480L-240 240W - 30,000 Lumens | | | | |
| | 480L-255 255W - 36,000 Lumens | | | | |
| | 480L-295 295W - 42,000 Lumens | | | | |
| | 480L-340 340W - 48,000 Lumens | | | | |

| Mounting | Color | Control Options Network | Options |
|--|-------------------------------------|---|---|
| ASQ Arm mount for square pole/flat surface | BLT Black Matte Textured | NXWE NX Wireless Enabled (module + radio) | BC Backlight control |
| ASQU Universal arm mount for square pole/flat surface | BLS Black Gloss Smooth | NXSPW_F NX Wireless, PIR Occ. Sensor, Daylight Harvesting ² | CD Continuous dimming |
| Mounting: Round Poles | | NXSP_F NX, PIR Occ. Sensor, Daylight Harvesting ² | F Fusing (must specify voltage) |
| A_ Arm mount for round pole ¹ | DBS Dark Bronze Gloss Smooth | Control Options Other | |
| A_U Universal arm mount for round pole ¹ | GTT Graphite Matte Textured | SCP-40F Programmable occupancy sensor ⁴ | TB Terminal block |
| Mounting Other | | 7PR 7-Pin twist lock receptacle | 2PF 2 power feed with 2 drivers ³ |
| WB Wall bracket | LGS Light Grey Gloss Smooth | 7PR-SC 7-Pin receptacle with shorting cap | |
| MAF Mast arm fitter for 2-3/8" OD horizontal arm | PSS Platinum Silver Smooth | 7PR-MD40F Low voltage sensor for 7PR | |
| K Knuckle | WHT White Matte Textured | 7PR-TL 7-Pin PCR with photocontrol | |
| | WHS White Gloss Smooth | | |
| | VGT Verde Green Textured | | |
| | Color Options | | |
| | CC Custom Color | | |

Notes:

- 1 Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Replace "_" with "14" for up to 14' mounting height, "30F" for 15-30' mounting height
- 3 Not available with 25, 50, 255, 295 & 340W configurations
- 4 At least one SCPREMOTE required to program SCP motion sensor

STOCK ORDERING INFORMATION

| Catalog Number | Lumens | Wattage | LED Count | CCT/CRI | Voltage | Distribution | Mounting | Finish |
|-----------------------|--------|---------|-----------|-------------|----------|--------------|------------|--------|
| RAR1-100-4K-3 | 12,000 | 100W | 160L | 4000K/70CRI | 120-277V | Type 3 | Square Arm | Bronze |
| RAR1-100-4K-4W | 12,000 | 100W | 160L | 4000K/70CRI | 120-277V | Type 4W | Square Arm | Bronze |
| RAR1-135-4K-3 | 18,000 | 135W | 160L | 4000K/70CRI | 120-277V | Type 3 | Square Arm | Bronze |
| RAR1-135-4K-4W | 18,000 | 135W | 160L | 4000K/70CRI | 120-277V | Type 4W | Square Arm | Bronze |
| RAR2-165-4K-3 | 21,000 | 165W | 320L | 4000K/70CRI | 120-277V | Type 3 | Square Arm | Bronze |
| RAR2-165-4K-4W | 21,000 | 165W | 320L | 4000K/70CRI | 120-277V | Type 4W | Square Arm | Bronze |

RATIO SERIES

AREA/SITE LIGHTER

OPTIONS AND ACCESSORIES - STOCK (ORDERED SEPARATELY)

| Catalog Number | Description |
|------------------------------------|---|
| <input type="checkbox"/> RARRPA3DB | Round pole adapter 3.5" to 4.13" for ASQ arm, 3.5" to 4.13" OD pole, dark bronze finish |
| <input type="checkbox"/> RARA3UDB | Universal mount for square pole or round pole 3.5" to 4.13", dark bronze finish |
| <input type="checkbox"/> RARBC80L | Ratio blacklight control 80L |
| <input type="checkbox"/> RARBC160L | Ratio blacklight control 160L |
| <input type="checkbox"/> RARBC320L | Ratio blacklight control 320L |
| <input type="checkbox"/> RARBC480L | Ratio blacklight control 480L |

ACCESSORIES AND REPLACEMENT PARTS - MADE TO ORDER

| Catalog Number | Description |
|---------------------------------------|--|
| <input type="checkbox"/> RAR-ASQU-XX | Universal arm mount for square pole/flat surface ² |
| <input type="checkbox"/> RAR-A_U-XX | Universal arm mount for round poles ² |
| <input type="checkbox"/> RAR-RPA_-XX | Round pole adapter ^{1,2} |
| <input type="checkbox"/> SETAVP-XX | 4" square pole top tenon adapter, 2 3/8" OD slipfitter ² |
| <input type="checkbox"/> RETAVP-XX | 4" round pole top tenon adapter, 2 3/8" OD slipfitter for max. Four fixtures (90o); order 4" round pole adapters separately ² |
| <input type="checkbox"/> BIRD-SPIKE-3 | Ratio size 1 bird deterrent/spikes |
| <input type="checkbox"/> BIRD-SPIKE-4 | Ratio size 2 bird deterrent/spikes |
| <input type="checkbox"/> RARWB-XX | Wall bracket - use with Mast Arm Fitter or Knuckle ² |

- 1 Replace "_" with "3" for 3.5"-4.13" OD pole, "4" for 4.18"-5.25" OD pole, "5" for 5.5"-6.5" OD pole
- 2 Replace "XX" with desired color/paint finish

CONTROLS

Control Options

Standalone

| | |
|------------------|--|
| SW7PR | SiteSync™ on fixture module via 7PR |
| SWUSB | SiteSync™ Software on USB |
| SWTAB | SiteSync™ Windows Tablet |
| SWBRG | SiteSync™ Wireless Bridge Node |
| SWFC | SiteSync™ Field Commission Serve |
| SCPREMOTE | Order at least one per project location to program and control |

Networked – Wireless

| | |
|------------------|--|
| WIR-RME-L | wISCAPE External Fixture Module ² |
|------------------|--|

NX Networked – Wireless

| | |
|-----------------------|---|
| NXOFM-IRID-UNV | NX Wireless, Daylight Harvesting, BLE, 7 pin twisted lock |
|-----------------------|---|

Notes:

- 1 Works with external networked photosensor
- 2 wISCAPE Gateway required for system programming

RATIO SERIES

AREA/SITE LIGHTER

PERFORMANCE DATA

| Description | Nominal Wattage | System Watts | Dist. Type | 5K (5000K NOMINAL 70 CRI) | | | | | 4K (4000K NOMINAL 70 CRI) | | | | | 3K (3000K NOMINAL 80 CRI) | | | | |
|-------------|-----------------|--------------|------------|---------------------------|-----|---|---|---|---------------------------|-----|---|---|---|---------------------------|-----|---|---|---|
| | | | | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G |
| RAR1 | 25 | 25.4 | 2 | 3438 | 135 | 1 | 0 | 1 | 3445 | 136 | 1 | 0 | 1 | 3240 | 128 | 1 | 0 | 1 |
| | | | 3 | 3460 | 136 | 1 | 0 | 1 | 3467 | 136 | 1 | 0 | 1 | 3260 | 128 | 1 | 0 | 1 |
| | | | 4W | 3406 | 134 | 1 | 0 | 1 | 3412 | 134 | 1 | 0 | 1 | 3209 | 126 | 1 | 0 | 1 |
| | | | 5QW | 3483 | 137 | 2 | 0 | 1 | 3490 | 137 | 2 | 0 | 1 | 3282 | 129 | 2 | 0 | 1 |
| | 39 | 39 | 2 | 5263 | 139 | 1 | 0 | 2 | 5273 | 139 | 1 | 0 | 2 | 4960 | 131 | 1 | 0 | 2 |
| | | | 3 | 5297 | 139 | 1 | 0 | 2 | 5308 | 140 | 1 | 0 | 2 | 4991 | 131 | 1 | 0 | 2 |
| | | | 4W | 5200 | 137 | 1 | 0 | 2 | 5210 | 137 | 1 | 0 | 2 | 4900 | 129 | 1 | 0 | 2 |
| | | | 5QW | 5333 | 140 | 3 | 0 | 1 | 5344 | 141 | 3 | 0 | 1 | 5025 | 132 | 3 | 0 | 1 |
| | 50 | 49.8 | 2 | 6310 | 127 | 1 | 0 | 2 | 6323 | 127 | 1 | 0 | 2 | 5946 | 120 | 1 | 0 | 2 |
| | | | 3 | 6349 | 128 | 1 | 0 | 2 | 6362 | 128 | 1 | 0 | 2 | 5983 | 120 | 1 | 0 | 2 |
| | | | 4W | 6233 | 125 | 1 | 0 | 2 | 6245 | 126 | 1 | 0 | 2 | 5873 | 118 | 1 | 0 | 2 |
| | | | 5QW | 6392 | 129 | 3 | 0 | 1 | 6405 | 129 | 3 | 0 | 1 | 6023 | 121 | 3 | 0 | 1 |
| | 70 | 68.4 | 2 | 9486 | 139 | 1 | 0 | 2 | 9505 | 139 | 1 | 0 | 2 | 8938 | 131 | 1 | 0 | 2 |
| | | | 3 | 9544 | 140 | 1 | 0 | 2 | 9563 | 140 | 1 | 0 | 2 | 8993 | 131 | 1 | 0 | 2 |
| | | | 4W | 9395 | 137 | 1 | 0 | 2 | 9414 | 138 | 1 | 0 | 2 | 8853 | 129 | 1 | 0 | 2 |
| | | | 5QW | 9608 | 140 | 4 | 0 | 2 | 9628 | 141 | 4 | 0 | 2 | 9054 | 132 | 4 | 0 | 2 |
| | 100 | 90.0 | 2 | 11976 | 133 | 2 | 0 | 2 | 12000 | 133 | 2 | 0 | 2 | 11285 | 125 | 2 | 0 | 2 |
| | | | 3 | 12050 | 134 | 2 | 0 | 2 | 12074 | 134 | 2 | 0 | 2 | 11354 | 126 | 2 | 0 | 2 |
| | | | 4W | 11861 | 132 | 2 | 0 | 2 | 11885 | 132 | 2 | 0 | 2 | 11177 | 124 | 2 | 0 | 2 |
| | | | 5QW | 12131 | 135 | 4 | 0 | 2 | 12155 | 135 | 4 | 0 | 2 | 11431 | 127 | 4 | 0 | 2 |
| | 115 | 109.7 | 2 | 15572 | 142 | 2 | 0 | 2 | 15494 | 141 | 2 | 0 | 2 | 14871 | 136 | 2 | 0 | 2 |
| | | | 3 | 15833 | 144 | 2 | 0 | 2 | 15754 | 144 | 2 | 0 | 2 | 15121 | 138 | 2 | 0 | 2 |
| | | | 4W | 15281 | 139 | 2 | 0 | 3 | 15205 | 139 | 2 | 0 | 3 | 14623 | 133 | 2 | 0 | 3 |
| | | | 5QW | 15732 | 143 | 4 | 0 | 2 | 15653 | 143 | 4 | 0 | 2 | 15024 | 137 | 4 | 0 | 2 |
| | 135 | 133.3 | 2 | 17971 | 135 | 3 | 0 | 3 | 17881 | 134 | 3 | 0 | 3 | 17163 | 129 | 3 | 0 | 3 |
| | | | 3 | 18272 | 137 | 2 | 0 | 2 | 18181 | 136 | 2 | 0 | 2 | 17450 | 131 | 2 | 0 | 2 |
| | | | 4W | 17635 | 132 | 2 | 0 | 3 | 17547 | 132 | 2 | 0 | 3 | 16876 | 127 | 2 | 0 | 3 |
| | | | 5QW | 18156 | 136 | 4 | 0 | 2 | 18065 | 136 | 4 | 0 | 2 | 17339 | 130 | 4 | 0 | 2 |

RAR2 Performance Data on next page

* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

RATIO SERIES

AREA/SITE LIGHTER

PERFORMANCE DATA

| Description | Nominal Wattage | System Watts | Dist. Type | 5K (5000K NOMINAL 70 CRI) | | | | | 4K (4000K NOMINAL 70 CRI) | | | | | 3K (3000K NOMINAL 80 CRI) | | | | |
|-------------|-----------------|--------------|------------|---------------------------|-----|---|---|---|---------------------------|-----|---|---|---|---------------------------|-----|---|---|---|
| | | | | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G | Lumens | LPW | B | U | G |
| RAR2 | 110 | 100.3 | 2 | 15326 | 153 | 2 | 0 | 3 | 15357 | 153 | 2 | 0 | 3 | 14442 | 144 | 2 | 0 | 3 |
| | | | 3 | 15421 | 154 | 2 | 0 | 3 | 15452 | 154 | 2 | 0 | 3 | 14531 | 145 | 2 | 0 | 3 |
| | | | 4W | 15180 | 151 | 2 | 0 | 2 | 15210 | 152 | 2 | 0 | 2 | 14304 | 143 | 2 | 0 | 2 |
| | | | 5QW | 15525 | 155 | 4 | 0 | 2 | 15556 | 155 | 4 | 0 | 2 | 14629 | 146 | 4 | 0 | 2 |
| | 140 | 133.2 | 2 | 19395 | 146 | 2 | 0 | 3 | 19434 | 146 | 2 | 0 | 3 | 18276 | 137 | 2 | 0 | 3 |
| | | | 3 | 19515 | 147 | 2 | 0 | 3 | 19554 | 147 | 2 | 0 | 3 | 18389 | 138 | 2 | 0 | 3 |
| | | | 4W | 19210 | 144 | 2 | 0 | 3 | 19248 | 145 | 2 | 0 | 3 | 18101 | 136 | 2 | 0 | 3 |
| | | | 5QW | 19647 | 148 | 5 | 0 | 3 | 19686 | 148 | 5 | 0 | 3 | 18513 | 139 | 5 | 0 | 3 |
| | 165 | 153.6 | 2 | 21651 | 141 | 3 | 0 | 3 | 21695 | 141 | 3 | 0 | 3 | 20402 | 133 | 3 | 0 | 3 |
| | | | 3 | 21785 | 142 | 3 | 0 | 3 | 21828 | 142 | 3 | 0 | 3 | 20527 | 134 | 3 | 0 | 3 |
| | | | 4W | 21444 | 140 | 3 | 0 | 3 | 21487 | 140 | 3 | 0 | 3 | 20206 | 132 | 3 | 0 | 3 |
| | | | 5QW | 21932 | 143 | 5 | 0 | 3 | 21976 | 143 | 5 | 0 | 3 | 20666 | 135 | 5 | 0 | 3 |
| | 185 | 174.5 | 2 | 26046 | 149 | 3 | 0 | 3 | 26098 | 150 | 3 | 0 | 3 | 24543 | 141 | 3 | 0 | 3 |
| | | | 3 | 26207 | 150 | 3 | 0 | 3 | 26259 | 150 | 3 | 0 | 3 | 24694 | 142 | 3 | 0 | 3 |
| | | | 4W | 25797 | 148 | 3 | 0 | 4 | 25849 | 148 | 3 | 0 | 4 | 24308 | 139 | 3 | 0 | 4 |
| | | | 5QW | 26384 | 151 | 5 | 0 | 3 | 26437 | 152 | 5 | 0 | 3 | 24861 | 143 | 5 | 0 | 3 |
| | 210 | 198.2 | 2 | 28848 | 145 | 3 | 0 | 4 | 28906 | 146 | 3 | 0 | 4 | 27184 | 137 | 3 | 0 | 4 |
| | | | 3 | 29027 | 146 | 3 | 0 | 4 | 29085 | 147 | 3 | 0 | 4 | 27351 | 138 | 3 | 0 | 4 |
| | | | 4W | 28572 | 144 | 3 | 0 | 4 | 28630 | 144 | 3 | 0 | 4 | 26924 | 136 | 3 | 0 | 4 |
| | | | 5QW | 29222 | 147 | 5 | 0 | 4 | 29281 | 148 | 5 | 0 | 4 | 27536 | 139 | 5 | 0 | 4 |
| | 240 | 226.9 | 2 | 32087 | 141 | 3 | 0 | 4 | 32151 | 142 | 3 | 0 | 4 | 30235 | 133 | 3 | 0 | 4 |
| | | | 3 | 32285 | 142 | 3 | 0 | 4 | 32350 | 143 | 3 | 0 | 4 | 30422 | 134 | 3 | 0 | 4 |
| | | | 4W | 31780 | 140 | 3 | 0 | 4 | 31844 | 140 | 3 | 0 | 4 | 29946 | 132 | 3 | 0 | 4 |
| | | | 5QW | 32503 | 143 | 5 | 0 | 4 | 32568 | 144 | 5 | 0 | 4 | 30627 | 135 | 5 | 0 | 4 |
| | 255 | 257.0 | 2 | 37040 | 144 | 3 | 0 | 4 | 36854 | 143 | 3 | 0 | 4 | 35373 | 138 | 3 | 0 | 4 |
| | | | 3 | 37660 | 147 | 3 | 0 | 4 | 37472 | 146 | 3 | 0 | 4 | 35966 | 140 | 3 | 0 | 4 |
| | | | 4W | 36347 | 141 | 3 | 0 | 5 | 36166 | 140 | 3 | 0 | 5 | 34782 | 135 | 3 | 0 | 5 |
| | | | 5QW | 37420 | 146 | 5 | 0 | 4 | 37233 | 145 | 5 | 0 | 4 | 35736 | 139 | 5 | 0 | 4 |
| | 295 | 294.0 | 2 | 41733 | 142 | 3 | 0 | 4 | 41524 | 141 | 3 | 0 | 4 | 39855 | 136 | 3 | 0 | 4 |
| | | | 3 | 42432 | 144 | 3 | 0 | 4 | 42220 | 144 | 3 | 0 | 4 | 40523 | 138 | 3 | 0 | 4 |
| | | | 4W | 40953 | 139 | 3 | 0 | 5 | 40748 | 139 | 3 | 0 | 5 | 39190 | 133 | 3 | 0 | 5 |
| | | | 5QW | 42162 | 143 | 5 | 0 | 4 | 41951 | 143 | 5 | 0 | 4 | 40264 | 137 | 5 | 0 | 4 |
| | 340 | 347.1 | 2 | 48392 | 139 | 4 | 0 | 5 | 48150 | 139 | 4 | 0 | 5 | 46215 | 133 | 4 | 0 | 5 |
| | | | 3 | 49203 | 142 | 3 | 0 | 4 | 48957 | 141 | 3 | 0 | 4 | 46989 | 135 | 3 | 0 | 4 |
| | | | 4W | 47488 | 137 | 4 | 0 | 5 | 47261 | 136 | 4 | 0 | 5 | 45443 | 131 | 4 | 0 | 5 |
| | | | 5QW | 48889 | 141 | 5 | 0 | 5 | 48645 | 140 | 5 | 0 | 5 | 46689 | 135 | 5 | 0 | 5 |

* Lumen values are from photometric test performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown. Actual performance may differ as a result of end-user environment and application.

RATIO SERIES

AREA/SITE LIGHTER

ELECTRICAL DATA

| # OF LEDS | Nominal Wattage | Input Voltage | Oper. Current (Amps) | System Power (Watts) |
|-----------|-----------------|---------------|----------------------|----------------------|
| RAR1 | 25 | 120 | 0.21 | 25.4 |
| | | 208 | 0.12 | |
| | | 240 | 0.11 | |
| | | 277 | 0.09 | |
| | 39 | 120 | 0.32 | 38.0 |
| | | 208 | 0.18 | |
| | | 240 | 0.16 | |
| | | 277 | 0.14 | |
| | | 347 | 0.11 | |
| | | 480 | 0.08 | |
| | 50 | 120 | 0.42 | 49.8 |
| | | 208 | 0.24 | |
| | | 240 | 0.21 | |
| | | 277 | 0.18 | |
| | 70 | 120 | 0.57 | 68.4 |
| | | 208 | 0.33 | |
| | | 240 | 0.29 | |
| | | 277 | 0.25 | |
| | 100 | 120 | 0.75 | 90.0 |
| | | 208 | 0.43 | |
| | | 240 | 0.38 | |
| | | 277 | 0.32 | |
| | 115 | 120 | 0.91 | 109.7 |
| | | 208 | 0.53 | |
| | | 240 | 0.46 | |
| | | 277 | 0.40 | |
| | | 347 | 0.32 | |
| | | 480 | 0.23 | |
| 135 | 120 | 1.11 | 133.3 | |
| | 208 | 0.64 | | |
| | 240 | 0.56 | | |
| | 277 | 0.48 | | |
| | | 347 | 0.38 | |
| | | 480 | 0.28 | |

| # OF LEDS | Nominal Wattage | Input Voltage | Oper. Current (Amps) | System Power (Watts) |
|-----------|-----------------|---------------|----------------------|----------------------|
| RAR2 | 110 | 120 | 0.84 | 100.3 |
| | | 208 | 0.48 | |
| | | 240 | 0.42 | |
| | | 277 | 0.36 | |
| | 140 | 120 | 1.11 | 133.2 |
| | | 208 | 0.64 | |
| | | 240 | 0.56 | |
| | | 277 | 0.48 | |
| | 165 | 120 | 1.28 | 153.6 |
| | | 208 | 0.74 | |
| | | 240 | 0.64 | |
| | | 277 | 0.55 | |
| | 185 | 120 | 1.45 | 174.5 |
| | | 208 | 0.84 | |
| | | 240 | 0.73 | |
| | | 277 | 0.63 | |
| | 210 | 120 | 1.65 | 198.3 |
| | | 208 | 0.95 | |
| | | 240 | 0.83 | |
| | | 277 | 0.72 | |
| | 240 | 120 | 1.89 | 226.9 |
| | | 208 | 1.09 | |
| | | 240 | 0.95 | |
| | | 277 | 0.82 | |
| | 255 | 120 | 2.14 | 257.0 |
| | | 208 | 1.24 | |
| | | 240 | 1.07 | |
| | | 277 | 0.93 | |
| 347 | | 0.74 | | |
| 480 | | 0.54 | | |
| 295 | 120 | 2.45 | 294.0 | |
| | 208 | 1.41 | | |
| | 240 | 1.23 | | |
| | 277 | 1.06 | | |
| | 347 | 0.85 | | |
| | 480 | 0.61 | | |
| 340 | 120 | 2.89 | 347.1 | |
| | 208 | 1.67 | | |
| | 240 | 1.45 | | |
| | 277 | 1.25 | | |
| | 347 | 1.00 | | |
| | 480 | 0.72 | | |

LUMINAIRE AMBIENT TEMPERATURE FACTOR (LATF)

| Ambient Temperature | | Lumen Multiplier |
|---------------------|--------|------------------|
| 0° C | 32° F | 1.03 |
| 10° C | 50° F | 1.01 |
| 20° C | 68° F | 1.00 |
| 25° C | 77° F | 1.00 |
| 30° C | 86° F | 0.99 |
| 40° C | 104° F | 0.98 |
| 50° C | 122° F | 0.97 |

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

PROJECTED LUMEN MAINTENANCE

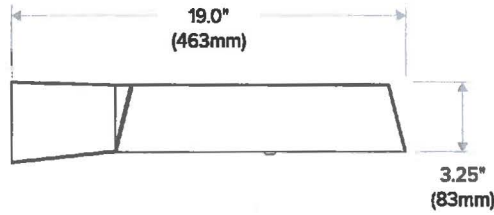
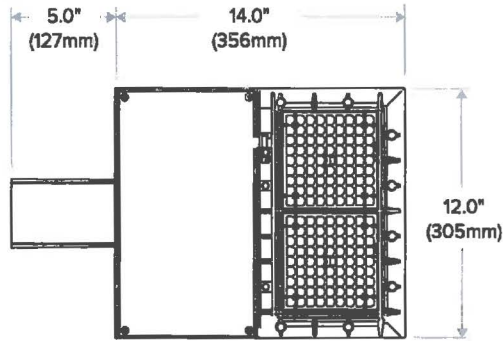
| Ambient Temperature | OPERATING HOURS | | | | | |
|---------------------|-----------------|--------|------------------------|--------|---------|-------------|
| | 0 | 25,000 | TM-21-11 L90 36,000 | 50,000 | 100,000 | L70 (Hours) |
| 25°C / 77°F | 1.00 | 0.97 | 0.95 | 0.93 | 0.86 | 238,000 |
| 40°C / 104°F | 0.99 | 0.96 | 0.95 | 0.93 | 0.85 | 225,000 |

RATIO SERIES

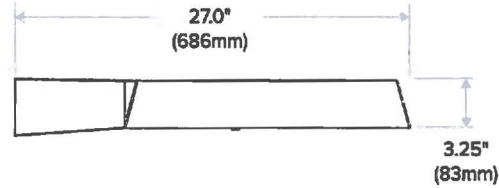
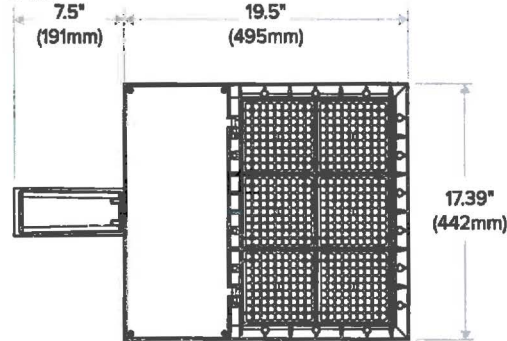
AREA/SITE LIGHTER

DIMENSIONS

RAR1



RAR2



ADDITIONAL INFORMATION

MOUNTING



Arm Mount – Fixture ships with integral arm for ease of installation. Compatible with Hubbell Outdoor B3 drill pattern.



Knuckle – Knuckle mount 15° aiming angle increments for precise aiming and control, fits 2-3/8" tenons or pipes.



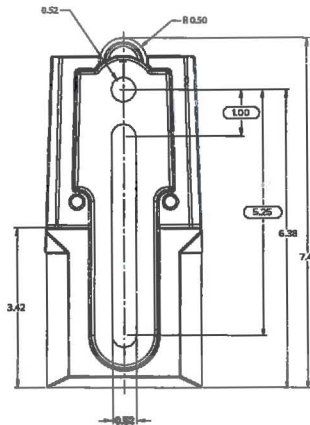
Universal Mounting – Universal mounting block for ease of installation. Compatible with drill patterns from 2.5" to 4.5"



MAF – Fits 2-3/8" OD arms Roadway applications.



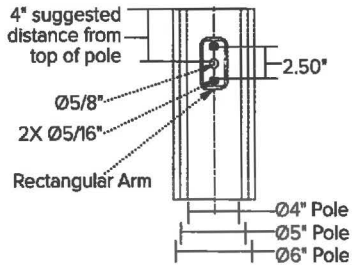
Wall Mount – Wall mount bracket designed for building mount applications.



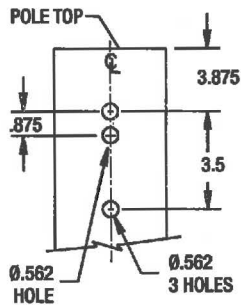
RATIO SERIES
AREA/SITE LIGHTER

ADDITIONAL INFORMATION (CONT'D)

ARM MOUNT (ASQ)
Compatible with Pole drill pattern B3



UNIVERSAL MOUNTING (ASQU)
Compatible with pole drill pattern S2



SITESYNC 7-PIN MODULE



SW7PR



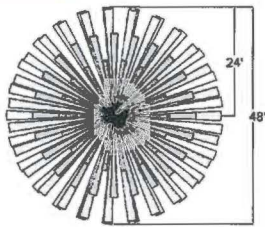
- SiteSync features in a new form
- Available as an accessory for new construction or retrofit applications (with existing 7-Pin receptacle)

RATIO SERIES

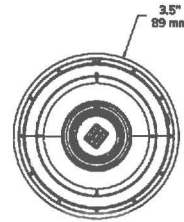
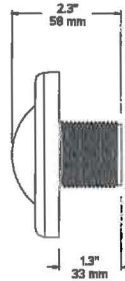
AREA/SITE LIGHTER

ADDITIONAL INFORMATION (CONT'D)

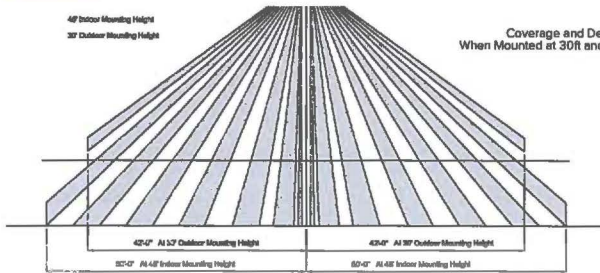
NXSP-14F



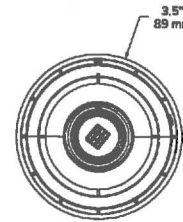
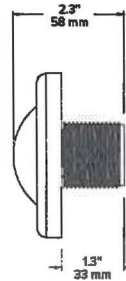
Sensor Lens Coverage and Detection Patterns
When Mounted at 6ft with Low Mount Lens



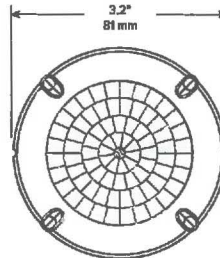
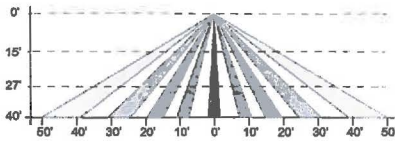
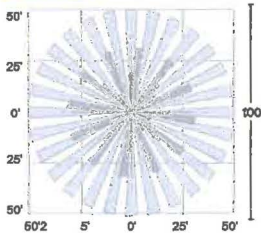
NXSP-30F



Coverage and Detection Patterns
When Mounted at 30ft and 45ft with Standard Lens



SCP-40F



RAR1 EPA

| RAR-1 | |
|--|--|
| EPA at 0' | EPA at 30' |
| .45ft. ² .13m ² | .56ft. ² .17m ² |

RAR2 EPA

| RAR-2 | |
|--|---|
| EPA at 0' | EPA at 30' |
| .55ft. ² .17m ² | 1.48ft. ² .45m ² |

SHIPPING

| Catalog Number | G.W(kg)/CTN | Carton Dimensions | | |
|----------------|-------------|-------------------|-----------------|------------------|
| | | Length Inch (cm) | Width Inch (cm) | Height Inch (cm) |
| RAR1 | 15 (6.8) | 20.75 (52.7) | 15.125 (38.4) | 6.9375 (17.6) |
| RAR2 | 19 (8.6) | 25 (63.5) | 15.125 (38.4) | 6.9375 (17.6) |

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Exhibit F

