

EBST

STEEL BATTERY UNIT



The EBST series of commercial steel battery units is designed to provide efficient and reliable emergency lighting. Utilizing a sturdy, all steel housing, the EBST presents a modern and unobtrusive design. On higher capacity models, the cabinet front is sloped to allow better internal access and superior low angle light distribution. The EBST series is available in 6VDC, 12VDC and 24VDC versions in a range of wattage capacities between 18 and 720W, for 30 minutes duration.

Units are typically supplied with two top mounted PAR18, however a wide range of head type, number and placement are available including MR16 type. The EBST can also accommodate a wide variety of options, including auto-testing self-diagnostics and remote testing.

FEATURES & SPECIFICATIONS

CIRCUITRY

- 120/347 or 277 VAC 60 Hz Input
- 6 VDC, 12 VDC or 24 VDC emergency power output versions (as specified)
- Wattage capacities from 18 to 720 W
- 30 Minutes emergency power duration standard
- Momentary push button test switch

- Diagnostic/pilot LEDs for AC ON and CHARGE
- Maintenance free, sealed lead acid battery
- Optional automatic-testing, self-diagnostic charger board

MECHANICAL




- Rugged steel cabinet with ultraguard rust-coating
- 120 VAC line cord supplied standard

- Universal spider knockout pattern and keyhole mounting slots stamped into back of cabinet
- Multiple conduit entry knockouts
- White powder coat finish standard, other finishes and Colours optional
- Lamp heads include PAR18 small style, and die cast metal MR16 type

- Top head mounting is standard, side mount is optional

COMPLIANCES

- Meets requirements of ICES-005
- CSA Certified to C22.2 #141-15

| OVERVIEW | |
|---|--------------|
| INPUT VOLTAGE (VAC) | 120/347, 277 |
| OUTPUT VOLTAGE (VDC) | 6, 12, 24 |
| OUTPUT POWER (W) | UP TO 720 |
|    | |

WIREGUARD

| | | PART NUMBER | DIMENSIONS (IN) |
|--------------|-----------|-------------|----------------------|
| WITHOUT HEAD | CABINET A | WGD520 | 14 x 10 x 4.75 |
| | CABINET B | WGD520 | 14 x 10 x 4.75 |
| | CABINET C | WGD510 | 17.25 x 17.25 x 7 |
| | CABINET D | WGD650 | 13.75 x 12.25 x 16.5 |
| WITH HEAD(S) | CABINET A | WGD590 | 15.25 x 14.25 x 6.75 |
| | CABINET B | WGD590 | 15.25 x 14.25 x 6.75 |
| | CABINET C | WGD510 | 17.25 x 17.25 x 7 |
| | CABINET D | WGD650 | 13.75 x 12.25 x 16.5 |

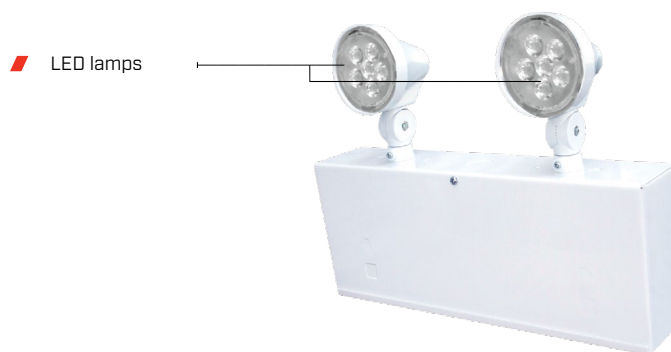
LAMP SELECTION

| | 6 VOLTS | 12 VOLTS | 24 VOLTS |
|---|------------------|------------------------------|------------------------|
| PAR18 - SMALL HEAD OR LED LAMP | | | |
| LED | 3WLJ, 4WLJ, 5WLJ | 3WLJ, 4WLJ, 5WLJ, 6WLA, 7WLA | 4WLR, 5WLA, 6WLA, 7WLA |
| QUARTZ HALOGEN | 10WQ | 10WQ, 12WQ | 12WQ |
| TUNGSTEN | 09WT | 09WT | 09WT, 18WT |
| MR16 - SMALL HEAD C/W MR16 OR LED LAMP | | | |
| LED | 4WLR, 5WLA | 4WLR, 5WLA, 6WLA, 7WLA | 4WLR, 5WLA, 6WLA, 7WLA |
| QUARTZ HALOGEN | 10WQ | 12WQ, 20WQ, 35WQ | 12WQ, 20WQ |

Note: Due to cabinet/space limitations, not all options are available for all models in any given combination. Please consult with your factory representative regarding specific options and exact cabinet dimension information.

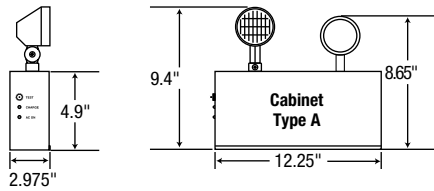
MODEL RATINGS

| WATTAGE CAPACITIES (W) | | | | | |
|------------------------|-----------|---------|---------|----------|---------|
| MODEL | VOLTS (V) | 30 MIN. | 90 MIN. | 120 MIN. | CABINET |
| EBST06018 | 6 | 18 | N/A | N/A | A |
| EBST06036 | 6 | 36 | 12 | 9 | A |
| EBST06050 | 6 | 50 | 16 | 12 | A |
| EBST06072 | 6 | 72 | 24 | 18 | B |
| EBST06100 | 6 | 100 | 33 | 25 | B |
| EBST06160 | 6 | 160 | 53 | 40 | C |
| EBST06180 | 6 | 180 | 60 | 45 | C |
| EBST12036 | 12 | 36 | 12 | 9 | A |
| EBST12050 | 12 | 50 | 16 | 13 | A |
| EBST12072 | 12 | 72 | 24 | 18 | A |
| EBST12100 | 12 | 100 | 33 | 25 | B |
| EBST12144 | 12 | 144 | 48 | 36 | C |
| EBST12160 | 12 | 160 | 53 | 40 | C |
| EBST12200 | 12 | 200 | 66 | 50 | C |
| EBST12250 | 12 | 250 | 83 | 63 | D |
| EBST12360 | 12 | 360 | 120 | 90 | D |
| EBST24144 | 24 | 144 | 48 | 36 | C |
| EBST24200 | 24 | 200 | 66 | 50 | C |
| EBST24320 | 24 | 320 | 106 | 80 | D |
| EBST24350 | 24 | 350 | 116 | 88 | E |
| EBST24550 | 24 | 550 | 183 | 138 | E |
| EBST24720 | 24 | 720 | 240 | 180 | E |

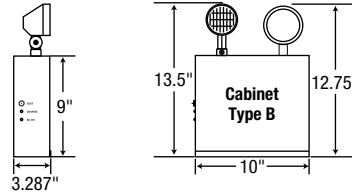


DIMENSIONS

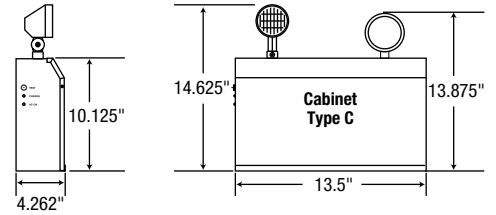
CABINET TYPE A



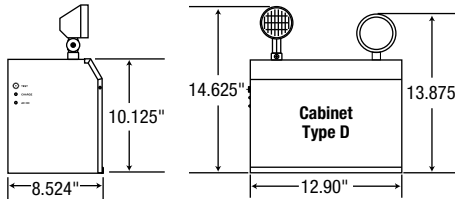
CABINET TYPE B



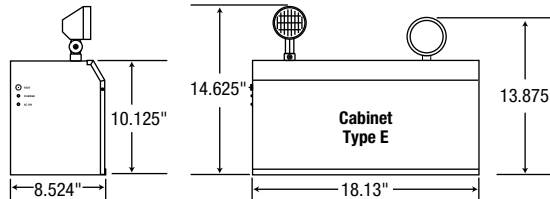
CABINET TYPE C



CABINET TYPE D

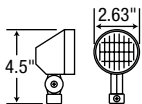


CABINET TYPE E



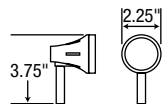
TYPE SM - PAR18

Thermoplastic
18 W max.



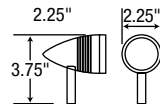
TYPE MD - MR16

Die cast
35 W max.



TYPE MB - MR16

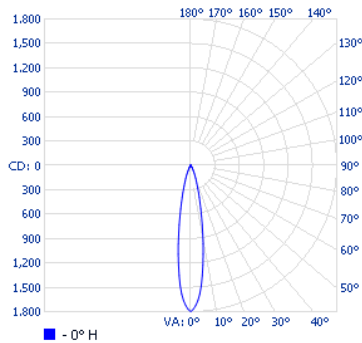
Die cast
35 W max.



PHOTOMETRIC DATA¹

PAR18-06-12V3WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

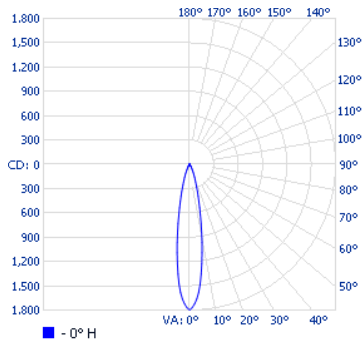
| ZONE | LUMENS | % FIXTURE |
|--------|--------|-----------|
| 0-30 | 282.9 | 91.6% |
| 0-40 | 297.5 | 96.3% |
| 0-60 | 306.9 | 99.3% |
| 60-90 | 2.1 | 0.7% |
| 70-100 | 0.3 | 0.1% |
| 90-120 | 0 | 0% |
| 0-90 | 309.0 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 309.0 | 100% |

ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC | | Beam Spread: 19.3° | BEAM WIDTH | |
|----------------|------|--------------------|------------|--|
| 1.7' | 622 | | 0.6' | |
| 3.3' | 165 | 1.1' | | |
| 5.0' | 71.8 | 1.7' | | |
| 6.7' | 40.0 | 2.3' | | |
| 8.3' | 26.1 | 2.8' | | |
| 10.0' | 18.0 | 3.4' | | |

PAR18-06-12V4WLJ • 309.0 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

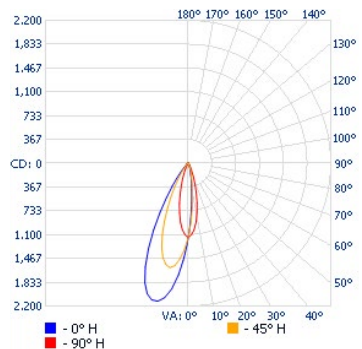
| ZONE | LUMENS | % FIXTURE |
|--------|--------|-----------|
| 0-30 | 282.9 | 91.6% |
| 0-40 | 297.5 | 96.3% |
| 0-60 | 306.9 | 99.3% |
| 60-90 | 2.1 | 0.7% |
| 70-100 | 0.3 | 0.1% |
| 90-120 | 0 | 0% |
| 0-90 | 309.0 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 309.0 | 100% |

ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC | | Beam Spread: 19.3° | BEAM WIDTH | |
|----------------|------|--------------------|------------|--|
| 1.7' | 622 | | 0.6' | |
| 3.3' | 165 | 1.1' | | |
| 5.0' | 71.8 | 1.7' | | |
| 6.7' | 40.0 | 2.3' | | |
| 8.3' | 26.1 | 2.8' | | |
| 10.0' | 18.0 | 3.4' | | |

PAR18-06-12V5WLJ • 655.3 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % FIXTURE |
|-------|--------|-----------|
| 0-30 | 515.6 | 78.7% |
| 0-40 | 595.7 | 90.9% |
| 0-60 | 637.2 | 97.2% |
| 60-90 | 18.0 | 2.8% |
| 0-90 | 655.3 | 100% |

ILLUMINANCE AT A DISTANCE

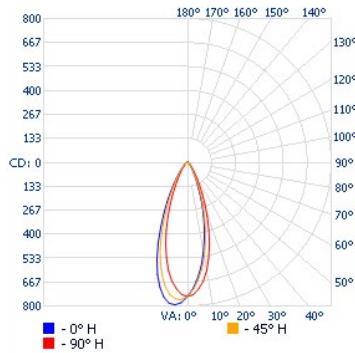
| CENTER BEAM FC | | Vert. Spread: 28.6° | Hor. Spread: 29.4° | BEAM WIDTH | |
|----------------|------|---------------------|--------------------|------------|------|
| 1.7' | 396 | | | 0.9' | 0.9' |
| 3.3' | 105 | 1.7' | 1.7' | | |
| 5.0' | 45.8 | 2.5' | 2.6' | | |
| 6.7' | 25.5 | 3.4' | 3.5' | | |
| 8.3' | 16.6 | 4.2' | 4.3' | | |
| 10.0' | 11.5 | 5.1' | 5.2' | | |

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

MR16-06-24V4WLR • 228.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % FIXTURE |
|--------|--------|-----------|
| 0-30 | 164.4 | 71.9% |
| 0-40 | 182.0 | 79.6% |
| 0-60 | 214.8 | 93.9% |
| 60-90 | 13.9 | 6.1% |
| 70-100 | 4.1 | 1.8% |
| 90-120 | 0 | 0% |
| 0-90 | 228.7 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 228.7 | 100% |

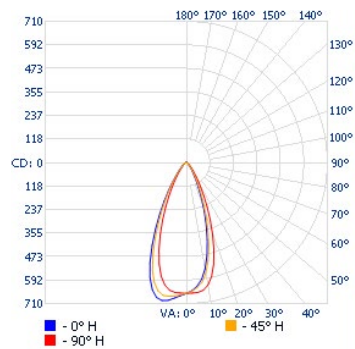
ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC | | BEAM WIDTH |
|----------------|------|------------|
| 1.7' | 168 | |
| 3.3' | 44.5 | 2.1' |
| 5.0' | 19.4 | 3.2' |
| 6.7' | 10.8 | 4.3' |
| 8.3' | 7.04 | 5.3' |
| 10.0' | 4.85 | 6.4' |

■ Beam. Spread: 35.4°

MR16-06-24V5WLA • 440.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % FIXTURE |
|--------|--------|-----------|
| 0-30 | 352.6 | 80% |
| 0-40 | 391.8 | 88.9% |
| 0-60 | 427.2 | 96.9% |
| 60-90 | 13.5 | 3.1% |
| 70-100 | 4.3 | 1% |
| 90-120 | 0 | 0% |
| 0-90 | 440.7 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 440.7 | 100% |

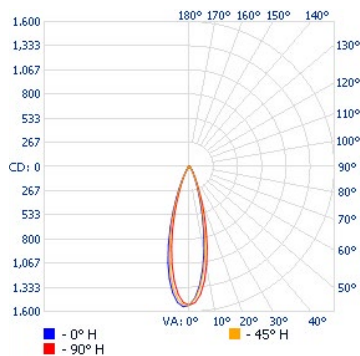
ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC | | BEAM WIDTH | |
|----------------|------|------------|------|
| 1.7' | 407 | 0.9' | 1.0' |
| 3.3' | 108 | 1.7' | 1.9' |
| 5.0' | 47.0 | 2.6' | 2.8' |
| 6.7' | 26.2 | 3.5' | 3.8' |
| 8.3' | 17.1 | 4.3' | 4.7' |
| 10.0' | 11.8 | 5.2' | 5.7' |

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

MR16-12-24V6WLA • 508.7 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % FIXTURE |
|--------|--------|-----------|
| 0-30 | 407.0 | 80% |
| 0-40 | 452.3 | 88.9% |
| 0-60 | 493.1 | 96.9% |
| 60-90 | 15.6 | 3.1% |
| 70-100 | 4.9 | 1% |
| 90-120 | 0 | 0% |
| 0-90 | 508.7 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 508.7 | 100% |

ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC | | BEAM WIDTH | |
|----------------|------|------------|------|
| 1.7' | 470 | 0.9' | 1.0' |
| 3.3' | 125 | 1.7' | 1.9' |
| 5.0' | 54.3 | 2.6' | 2.8' |
| 6.7' | 30.2 | 3.5' | 3.8' |
| 8.3' | 19.7 | 4.3' | 4.7' |
| 10.0' | 13.6 | 5.2' | 5.7' |

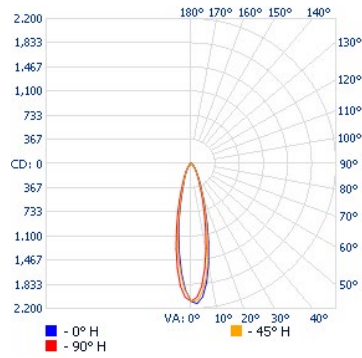
■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.

PHOTOMETRIC DATA¹

MR16-12-24V7WLA - 635.2 LM

POLAR CANDELA DISTRIBUTION



ZONAL LUMEN SUMMARY

| ZONE | LUMENS | % FIXTURE |
|--------|--------|-----------|
| 0-30 | 508.2 | 80% |
| 0-40 | 564.7 | 88.9% |
| 0-60 | 615.7 | 96.9% |
| 60-90 | 19.5 | 3.1% |
| 70-100 | 6.1 | 1% |
| 90-120 | 0 | 0% |
| 0-90 | 635.2 | 100% |
| 90-180 | 0 | 0% |
| 0-180 | 635.2 | 100% |

ILLUMINANCE AT A DISTANCE

| CENTER BEAM FC | | BEAM WIDTH | |
|----------------|------|------------|------|
| 1.7' | 587 | 0.9' | 1.0' |
| 3.3' | 156 | 1.7' | 1.9' |
| 5.0 | 67.8 | 2.6' | 2.8' |
| 6.7 | 37.8 | 3.5' | 3.8' |
| 8.3 | 24.6 | 4.3' | 4.7' |
| 10.0 | 16.9 | 16.9' | 5.7' |

■ Vert. Spread: 29.3° ■ Hor. Spread: 31.7°

¹ Complete IES files available on our website.