

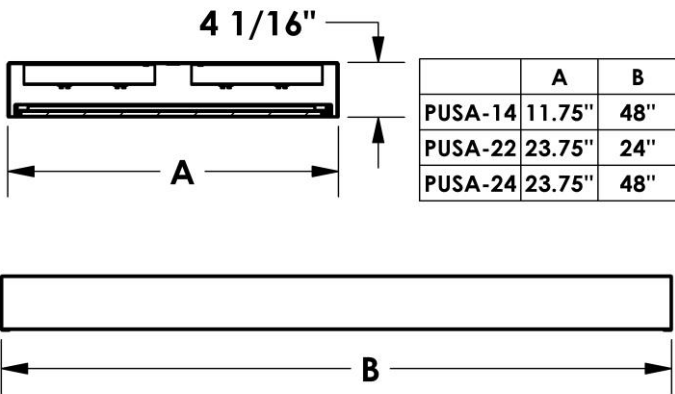
PROJECT:

NOTES:

ORDERING INFORMATION:

EXAMPLE PUSA - 24 - H - L - 60 - 9 - 40 - H5 - M4 - MV - EM - DM
 SERIES NOM. LENGTH SECURITY LEVEL SOURCE LUMENS CRI KELVINS DIFFUSERS LENS VOLTAGE OPTIONS DRIVER

SHOP DRAWINGS



ORDERING INFORMATION

SERIES
PUSA

NOMINAL LENGTH
 14 12" x 48"
 22 24" x 24"
 24 24" x 48"

SECURITY LEVEL
 X Extra Heavy (12 gauge)
 H Heavy (14 gauge)
 M Medium (16 gauge)
 L Light (18 gauge)

SOURCE
L LED

| Lumen Package* | Nom. Lumens | Wattage |
|------------------|-------------|---------|
| 12" x 48" | | |
| 30 | 3,000 | 23 |
| 40 | 4,000 | 30 |
| 50 | 5,000 | 38 |
| 24" x 24" | | |
| 30 | 3,000 | 23 |
| 40 | 4,000 | 30 |
| 50 | 5,000 | 38 |
| 24" x 48" | | |
| 40 | 4,000 | 27 |
| 60 | 6,000 | 41 |
| 80 | 8,000 | 55 |

CRI
 BLANK 80 CRI
 9 90 CRI

KELVIN
 30 3000K
 35 3500K
 40 4000K
 50 5000K
 TW Tunable White

DIFFUSERS
 A0 Acrylic K12
 H5 White Opal
 L1 Frosted Acrylic

SECURITY LENS
 M1 Clear Polycarbonate (0.125")
 M4 Clear Polycarbonate (0.250")
 M5 Clear Polycarbonate (0.375")
 M6 Clear Polycarbonate (0.500")

VOLTAGE
 MV 120-277V
 347 347V

OPTIONS
 OCC Occupancy Sensor
 EM Emergency Power Pack
 AM Anti-Microbial Paint
 AY Gasketed door

DRIVER
 BLANK Non-dimming applications
 DM 0-10V dimming
 DA DALI driver

FEATURES

- > Specification-grade LED security luminaire for anti-vandal applications
- > Robust design with concealed hinges and tamper-resistant fasteners
- > Features outer polycarbonate security lens (multiple thicknesses available) as well as inner diffuser for smooth and uniform illumination
- > Double frame secured internally with multiple screws
- > Concealed piano hinge welded to door frame and fastened
- > Continuous welded and ground seams for optional structural strength
- > One piece internal frame fastened to door with 12 screws for maximum security applications
- > Angle frame fastened to door for minimum security applications
- > Minimum 80 CRI; color range 3000K - 5000K available
- > Multiple dimming protocols available
- > Energy-saving occupancy sensor option available
- > 100% made in Canada

APPLICATIONS

- > Correctional facilities
- > Corridors
- > Locker rooms
- > Public areas
- > Stairwells
- > Rough service applications

*Other lumen packages available

LED

FIXTURE PERFORMANCE DATA

SPECIFICATIONS

Housing – Precision die-formed 12, 14,16, 18-gauge C.R.S. with continuously welded end plates

Door Frame – Single piece precision die formed frame with seam welded corners and tamper-resistant fasteners secure door frame to housing

Internal Frame –

For maximum security applications: One piece internal frame fastened to door with 12 screws for maximum security applications.

For minimum security applications: Zintec angle frame riveted to door

Security Lens – Variety of robust polycarbonate lenses available (outer lens).

Diffuser – Variety of diffusers available for smooth and uniform illumination (inner lens).

Hinge – Concealed piano style hinge with .500" knuckle and .125" pin welded to doorframe

Finish – Baked white enamel powder finish applied post production on all surfaces for smooth edges and safe handling

Electrical – High quality mid-power LED boards. L70 >50,000 hours.

Mounting – Suspended or surface mount

Listings –

- CSA certified as luminaire suitable for dry or damp locations.
- cUL certified as luminaire suitable for dry or damp locations.

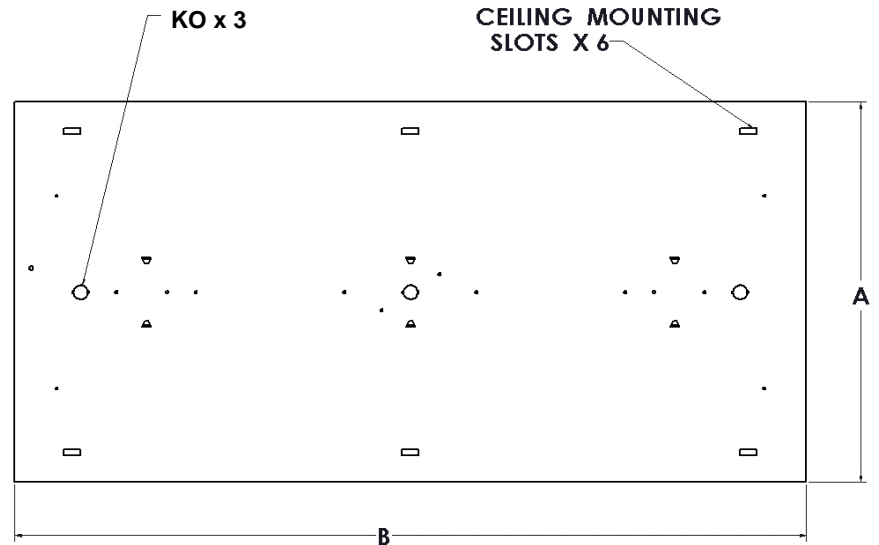
Warranty – 5-year limited warranty

| LED PACKAGE | DELIVERED LUMENS | WATTAGE | EFFICACY (lm/W) |
|-------------|------------------|---------|-----------------|
| 12" x 48" | | | |
| 30 | 3,062 | 23 | 133 |
| 40 | 4,008 | 30 | 134 |
| 50 | 5,043 | 38 | 133 |
| 24" x 24" | | | |
| 30 | 3,120 | 23 | 136 |
| 40 | 4,092 | 30 | 136 |
| 50 | 5,147 | 38 | 135 |
| 24" x 48" | | | |
| 40 | 4,312 | 27 | 159 |
| 60 | 6,283 | 41 | 153 |
| 80 | 8,375 | 55 | 152 |

*Results based on 4000K, 80 CRI, Security Lens (M1), Diffuser (H5)

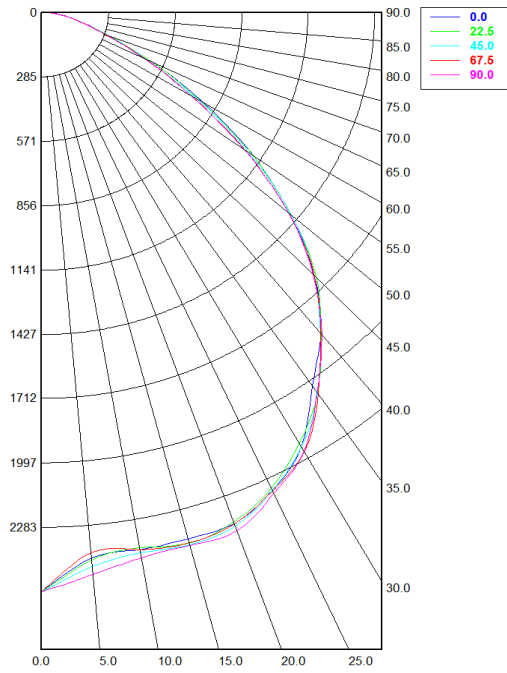
| MULTIPLIER TABLE | |
|-------------------|-------------------|
| COLOR TEMPERATURE | |
| CCT/CRI | CONVERSION FACTOR |
| 3000K / 80 CRI | 0.95 |
| 3500K / 80 CRI | 0.97 |
| 4000K / 80 CRI | 1 |
| 5000K / 80 CRI | 1.03 |

FIXTURE DETAILS



PHOTOMETRY

PUSA-24-H-LED-60-40-A0-M1-H0-MVOLT Total Luminaire Output: 6,283 lumens; 41 Watts



Candela Distribution

| | 0.00° | 22.50° | 45.00° | 67.50° | 90.00° |
|--------|----------|----------|----------|----------|----------|
| 0.00° | 2,568.07 | 2,568.07 | 2,568.07 | 2,568.07 | 2,568.07 |
| 5.00° | 2,428.45 | 2,437.42 | 2,466.74 | 2,404.78 | 2,501.83 |
| 10.00° | 2,418.51 | 2,410.24 | 2,433.02 | 2,417.84 | 2,454.14 |
| 15.00° | 2,415.70 | 2,436.59 | 2,443.10 | 2,435.02 | 2,446.20 |
| 20.00° | 2,411.64 | 2,403.88 | 2,422.62 | 2,413.63 | 2,444.89 |
| 25.00° | 2,339.38 | 2,328.52 | 2,340.01 | 2,341.85 | 2,355.15 |
| 30.00° | 2,227.73 | 2,208.37 | 2,227.52 | 2,252.40 | 2,248.80 |
| 35.00° | 2,023.31 | 2,061.67 | 2,063.63 | 2,066.52 | 2,059.44 |
| 40.00° | 1,864.51 | 1,862.87 | 1,858.59 | 1,861.79 | 1,868.07 |
| 45.00° | 1,653.76 | 1,667.15 | 1,652.60 | 1,655.41 | 1,645.84 |
| 50.00° | 1,397.74 | 1,398.07 | 1,399.17 | 1,386.22 | 1,384.20 |
| 55.00° | 1,102.58 | 1,098.24 | 1,077.29 | 1,061.14 | 1,052.32 |
| 60.00° | 796.16 | 784.29 | 758.39 | 742.55 | 742.43 |
| 65.00° | 521.47 | 519.89 | 500.44 | 488.18 | 485.68 |
| 70.00° | 309.05 | 309.58 | 303.23 | 289.69 | 287.16 |
| 75.00° | 186.97 | 190.00 | 190.93 | 179.20 | 176.33 |
| 80.00° | 111.72 | 115.66 | 115.81 | 110.32 | 104.53 |
| 85.00° | 46.70 | 48.21 | 47.80 | 42.39 | 41.10 |
| 90.00° | 9.61 | 11.14 | 9.42 | 8.63 | 8.37 |

Spacing Criterion:

| | |
|---------------------------|------|
| Two luminaires, plane 0° | 1.26 |
| Two luminaires, plane 90° | 1.27 |
| Four luminaires | 1.35 |

Zonal Lumen Summary

| Zone | Lumens | % Fixture |
|-------------------|----------|-----------|
| 0.00° - 10.00° | 247.47 | 3.94% |
| 10.00° - 20.00° | 687.60 | 10.94% |
| 20.00° - 30.00° | 1,074.32 | 17.10% |
| 30.00° - 40.00° | 1,281.03 | 20.39% |
| 40.00° - 50.00° | 1,262.62 | 20.09% |
| 50.00° - 60.00° | 958.10 | 15.25% |
| 60.00° - 70.00° | 508.44 | 8.09% |
| 70.00° - 80.00° | 205.85 | 3.28% |
| 80.00° - 90.00° | 57.86 | 0.92% |
| 90.00° - 100.00° | 2.62 | 0.04% |
| 100.00° - 110.00° | 0.00 | 0.00% |
| 110.00° - 120.00° | 0.00 | 0.00% |
| 120.00° - 130.00° | 0.00 | 0.00% |
| 130.00° - 140.00° | 0.00 | 0.00% |
| 140.00° - 150.00° | 0.00 | 0.00% |
| 150.00° - 160.00° | 0.00 | 0.00% |
| 160.00° - 170.00° | 0.00 | 0.00% |
| 170.00° - 180.00° | 0.00 | 0.00% |
| 0.00° - 90.00° | 6,283.29 | 100.00% |
| 90.00° - 180.00° | 2.62 | 0.04% |
| 0.00° - 180.00° | 6,283.29 | 100.00% |