

## SentinelGuard™ 1x4

Vandal-Resistant Recessed Ceiling Fixture  
For Correctional Applications

### Features and Specifications

#### Key Features:

- IK10+ rated security construction with high-impact lens options for application-specific protection.
- Anti-ligature design with smooth radiused edges, tamper-proof Torx® T-15 center-pin fasteners, and no exposed pry points.
- Energy-efficient LED system delivering up to 140 lm/W with uniform lens illuminance — no visible light bars or hotspots for improved visual comfort and aesthetic consistency.
- Room-side serviceable design for ease of maintenance and secure access.
- Smart control compatibility: supports 0–10V, DALI, or other control systems (consult factory)
- Long-life LED performance exceeding 100,000 hours L70 @ 40°C, minimizing maintenance and lifecycle costs.
- Union-made in the USA, BAA/BABA compliant, and UL 1598 certified for correctional and high-abuse environments.

#### Construction:

- **DOOR:** Seam-welded, one-piece, die-formed CRS; recessed and secured with flush TR Torx fasteners. Integral 3D lens retention system that ensures compression sealing and even load distribution.
- **LENS:** Application dependent options include polycarbonate, glass and acrylic for combined protection, aesthetic and optics.
- **HINGE:** Patent-pending slide-and-swing continuous hinge system facilitates secure and convenient access to internal components independent from lens frame retention and seal.
- **HOUSING:** Welded, one-piece, die-formed CRS. From 12–18 gauge
- **FINISH:** High-performance, durable polyester powder coating, oven-baked for corrosion resistance; salt-spray tested > 1,000 hours per ASTM B117. Standard matte white; other finishes available.

#### Dimensions:

- 12" x 48" x 3.5"

#### Optical & Electrical:

- Light Engine: high-efficiency LED module
- Output: 4,000–9,000 lumens
- CCT: 3000K–5000K, optional tunable white
- CRI: 80/90
- Lifetime: > 100,000 hrs L70 @ 40°C
- Voltage: 120–277V
- Dimming: 0–10V standard, DALI (optional)

#### Certifications:

- Patent Pending
- UL 1598, Wet Location (optional)
- IP65 (optional), IK10+
- ASTM tamper resistance standards
- Union-made, BAA/BABA compliant

#### Warranty:

- 5 Years - part replacement only (see our terms & conditions page at [www.lamarled.com](http://www.lamarled.com) for details)



#### Ordering Matrix/Example

SG-14R-12-FA12/PP18-S1-80-30K-B-WL

Series	Housing	Lens (Inner/Outer)	Lumen Level	CRI	CCT	Finish	Options
<b>SG-14R</b>	—	—	/	—	—	—	—
Series	Housing	Lens (Inner/Outer)	Lumen Level	CRI	CCT	Finish*	Options
<b>SG-14R</b> = SentinelGuard 1x4 Recessed	<b>12</b> = 12-GA CRS (Painted) <b>14</b> = 14-GA CRS (Painted) <b>16</b> = 16-GA CRS (Painted) <b>18</b> = 18-GA CRS (Painted)	<b>FA12</b> = .125" Frosted Acrylic <b>PA12</b> = .125" Prismatic Acrylic <b>PP12</b> = .125" Prismatic Polycarbonate <b>TP12</b> = .125" Textured Polycarbonate <b>CP12</b> = .125" Clear Polycarbonate <b>PP15</b> = .156" Prismatic Polycarbonate  <b>PP18</b> = .187" Prismatic Polycarbonate <b>CP18</b> = .187" Clear Polycarbonate <b>CP25</b> = .250" Clear Polycarbonate <b>CP37</b> = .375" Clear Polycarbonate <b>CP50</b> = .500" Clear Polycarbonate <b>CT18</b> = .187" Clear Tempered Glass <b>TT25</b> = .250" Textured Tempered Glass <b>CT25</b> = .250" Clear Tempered Glass <b>CT37</b> = .375" Clear Tempered Glass <b>CT50</b> = .500" Clear Tempered Glass <b>CT75</b> = .750" Clear Tempered Glass	<b>S1</b> = 4,000 lm / ~34W* <b>M1</b> = 5,500 lm / ~47W* <b>H1</b> = 7,000 lm / ~60W* <b>VH1</b> = 9,000 lm / ~77W*  *Delivered lumens and wattage based on 0.125" frosted acrylic inner lens with 0.187" clear polycarbonate outer lens @ 80CRI / 4000K. Actual fixture wattage may deviate by approximately 10% based on lens combination, CRI, and color temperature.	<b>80</b> = 80 CRI <b>90</b> = 90 CRI	<b>30K</b> = 3000K <b>35K</b> = 3500K <b>40K</b> = 4000K <b>50K</b> = 5000K <b>TW</b> = Tunable White (2700–6500K)	<b>W</b> = White <b>B</b> = Black <b>C</b> = Custom  *Door frame only	<b>EM</b> = 10W Integrated Emergency Battery Backup (0°C min ambient) <b>EMST</b> = 10W Integrated Self-Testing Emergency Battery Backup (0°C min ambient) <b>F</b> = Fuse & Holder <b>WL</b> = Wet Location Listed (includes ISO 5-8 rating) <b>65</b> = IP65 Wet Location <b>UB</b> = Universal Mount Bracket* <b>SA</b> = Swing Arms for grid applications <b>DAL</b> = DALI

#### Project Information:

Job Name: \_\_\_\_\_ Fixture Type: \_\_\_\_\_

Catalog #: \_\_\_\_\_ Date: \_\_\_\_\_

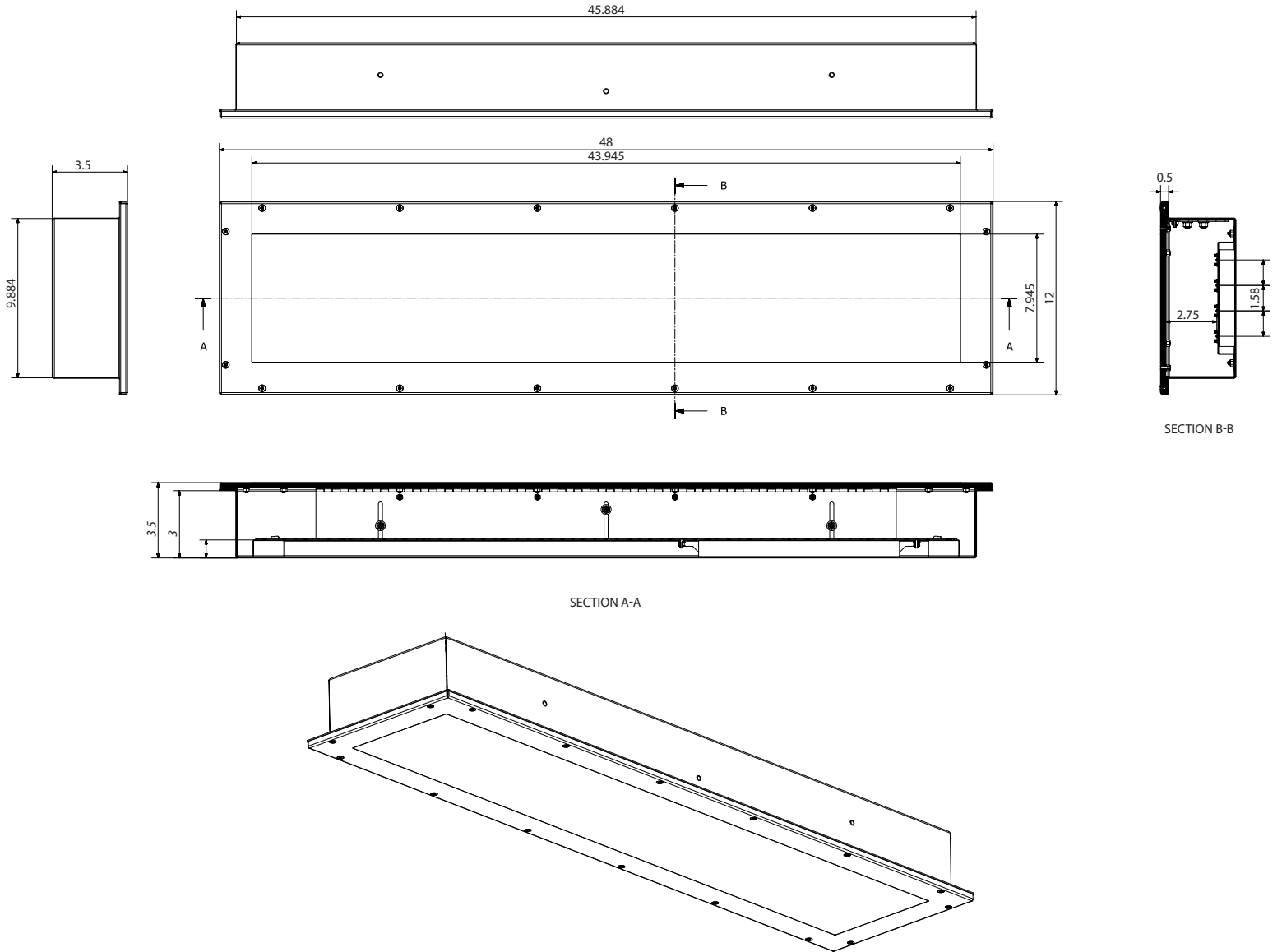
Comments: \_\_\_\_\_

#### Certification & Listings:

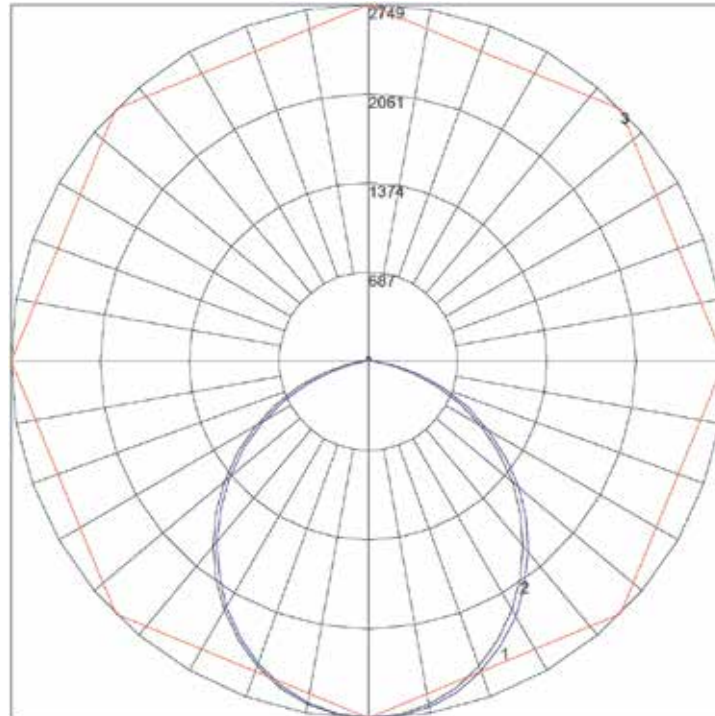


Specifications subject to change without notice - Rev 0925

Dimensions



Performance



Maximum Candela = 2748.635 Located At Horizontal Angle = 0, Vertical Angle = 0  
 # 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
 # 2 - Vertical Plane Through Horizontal Angles (90 - 270)  
 # 3 - Horizontal Cone Through Vertical Angle (0) (Through Max. Cd.)

**ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	995.01	14.10	14.10
0-30	2086.43	29.60	29.70
0-40	3362.85	47.70	47.80
0-60	5719.66	81.10	81.30
0-80	6833.1	96.90	97.10
0-90	6920.33	98.10	98.40
10-90	6660.83	94.40	94.70
20-40	2367.84	33.60	33.70
20-50	3639.47	51.60	51.70
40-70	3108.66	44.10	44.20
60-80	1113.44	15.80	15.80
70-80	361.59	5.10	5.10
80-90	87.23	1.20	1.20
90-110	27.46	0.40	0.40
90-120	42.84	0.60	0.60
90-130	59.44	0.80	0.80
90-150	90.97	1.30	1.30
90-180	113.98	1.60	1.60
110-180	86.52	1.20	1.20
0-180	7034.31	99.70	100.00

Total Luminaire Efficiency = 99.70%

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	259.50
10-20	735.51
20-30	1091.42
30-40	1276.42
40-50	1271.63
50-60	1085.19
60-70	751.85
70-80	361.59
80-90	87.23
90-100	13.94
100-110	13.52
110-120	15.38
120-130	16.60
130-140	16.51
140-150	15.03
150-160	12.23
160-170	7.98
170-180	2.80