

## SentinelGuard™ 2x4

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:

- 24" x 48" x 3.5"

#### Optical & Electrical:

- Light Engine: high-efficiency LED module
- Output: 4,000–12,000 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-24R-12-FA12/PP18-S1-80-30K-B-WL

Series	Housing	Lens (Inner/Outer)	Lumen Level	CRI	CCT	Finish	Options
<b>SG-24R</b>	—	—	/	—	—	—	—
Series	Housing	Lens (Inner/Outer)	Lumen Level	CRI	CCT	Finish*	Options
SG-24R = SentinelGuard 2x4 Recessed	12 = 12-GA CRS (Painted) 14 = 14-GA CRS (Painted) 16 = 16-GA CRS (Painted) 18 = 18-GA CRS (Painted)	FA12 = .125" Frosted Acrylic PA12 = .125" Prismatic Acrylic PP12 = .125" Prismatic Polycarbonate TP12 = .125" Textured Polycarbonate CP12 = .125" Clear Polycarbonate PP15 = .156" Prismatic Polycarbonate  PP18 = .187" Prismatic Polycarbonate CP18 = .187" Clear Polycarbonate CP25 = .250" Clear Polycarbonate CP37 = .375" Clear Polycarbonate CP50 = .500" Clear Polycarbonate CT18 = .187" Clear Tempered Glass TT25 = .250" Textured Tempered Glass CT25 = .250" Clear Tempered Glass CT37 = .375" Clear Tempered Glass CT50 = .500" Clear Tempered Glass CT75 = .750" Clear Tempered Glass	S1 = 4,000 lm / ~34W* M1 = 5,500 lm / ~47W* H1 = 8,000 lm / ~68W* VH1 = 12,000 lm / ~103W*	80 = 80 CRI 90 = 90 CRI	30K = 3000K 35K = 3500K 40K = 4000K 50K = 5000K TW = Tunable White (2700–6500K)	W = White B = Black C = Custom  *Door frame only	EM = 10W Integrated Emergency Battery Backup (0°C min ambient) EMST = 10W Integrated Self-Testing Emergency Battery Backup (0°C min ambient) F = Fuse & Holder WL = Wet Location Listed (includes ISO 5-8 rating) 65 = IP65 Wet Location UB = Universal Mount Bracket* SA = Swing Arms for grid applications DAL = DALI

#### Project Information:

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

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

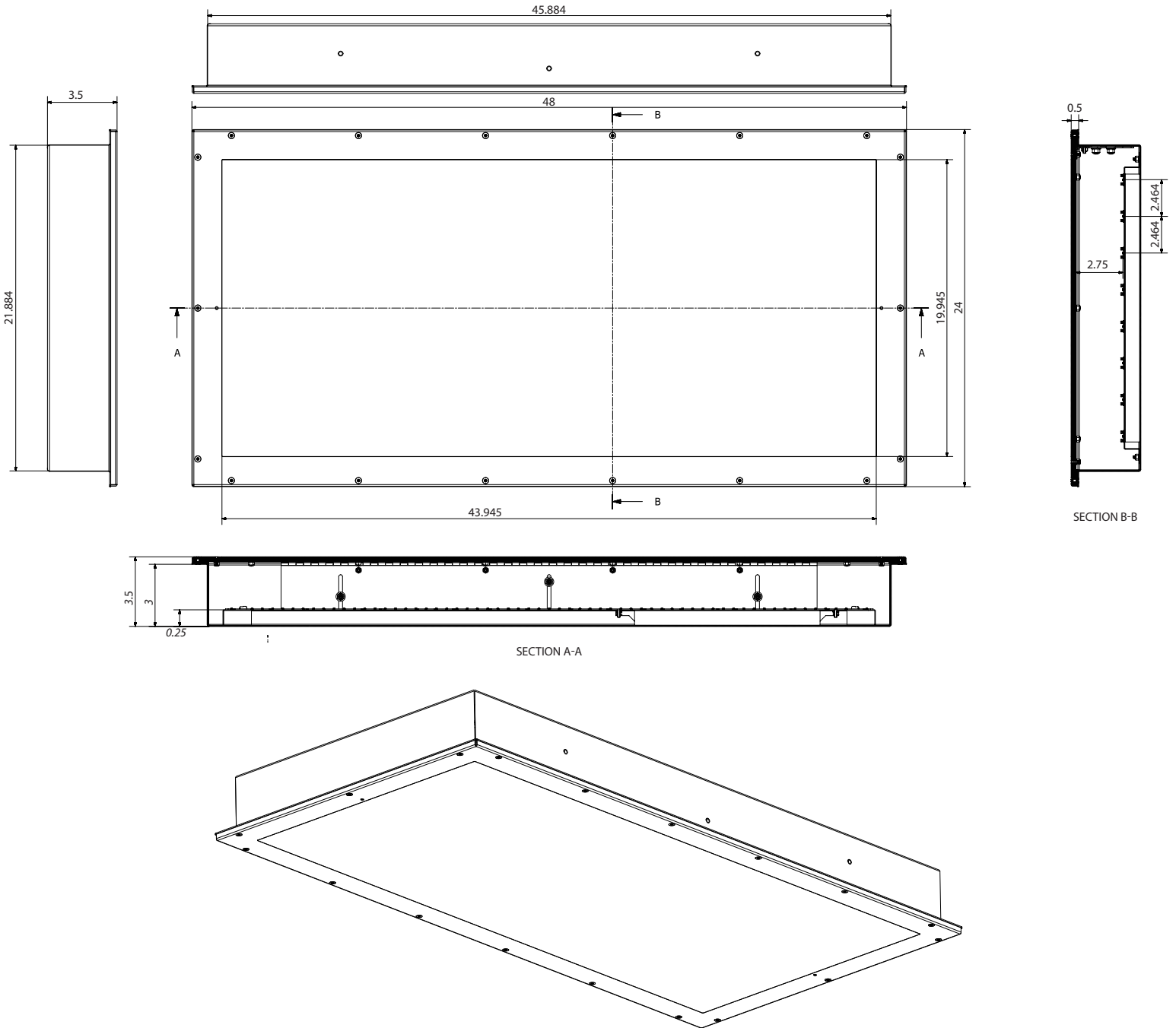
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#### Certification & Listings:

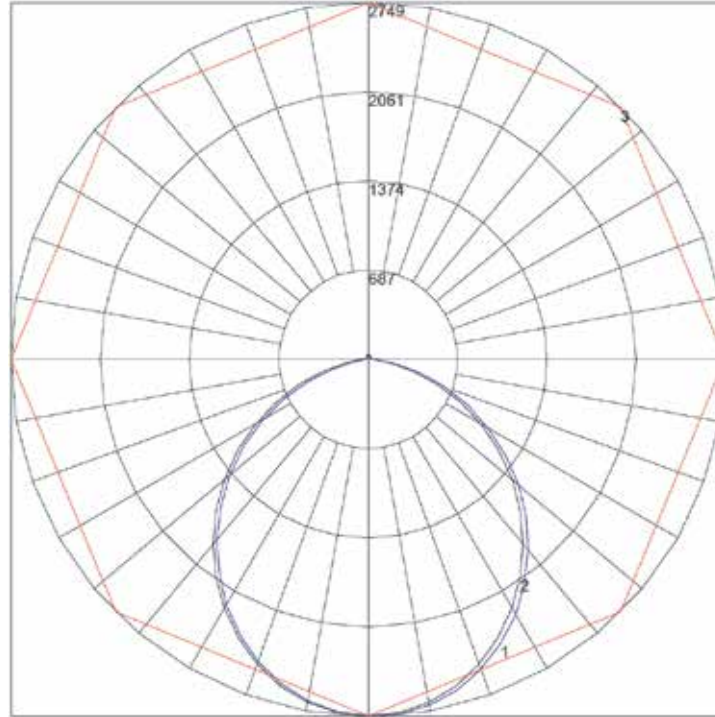


Specifications subject to change without notice - Rev 0925

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