SentinelGuard™ 1x8

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:

- 10.62" x 92.58" x 4.75"

Optical & Electrical:

- Light Engine: high-efficiency LED module
- Output: 4,000–8,000 lumens
- CCT: 2700K–6500K (or custom), 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 for details)

Ordering Matrix/Example

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

Series	Housing	Lens (Inner/Outer)	Lumen Level	CRI	CCT	Finish	Options
SG-NLR –	_____ –	_____ / _____ –	_____ –	_____ –	_____ –	_____ –	_____

Series	Housing	Lens (Inner/Outer)	Lumen Level	CRI	CCT	Finish*	Options
SG-NLR = SentinelGuard 1x8 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** = 6,000 lm / ~51W* **H1** = 8,000 lm / ~68W* *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.	**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: _____

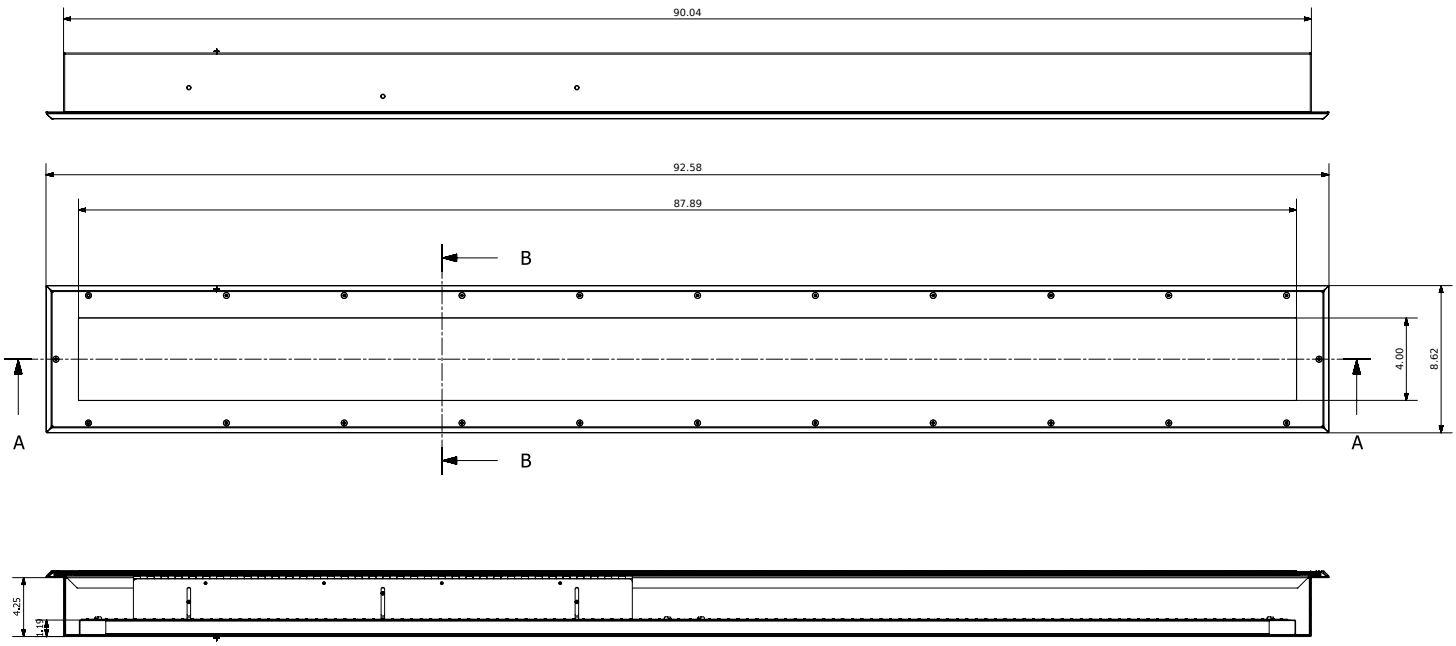
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Certification & Listings:

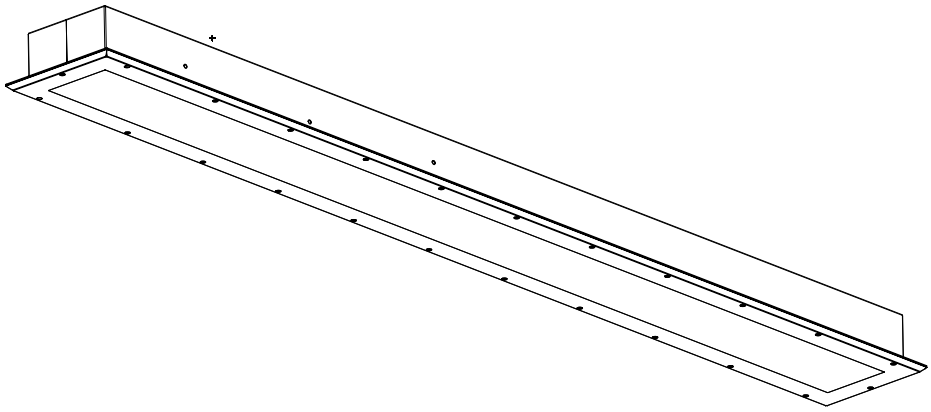
Specifications subject to change without notice - Rev 1126

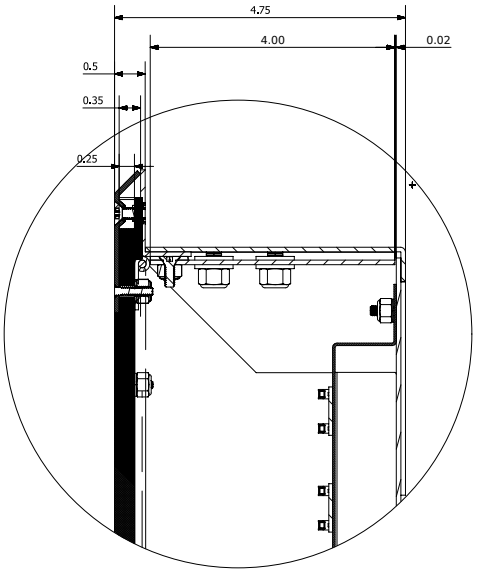
SG SentinelGuard™ 1x8 Recessed

Dimensions

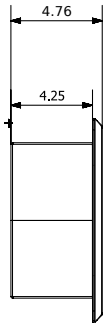


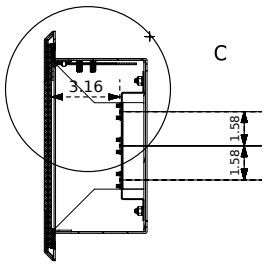
SECTION A-A





DETAIL C

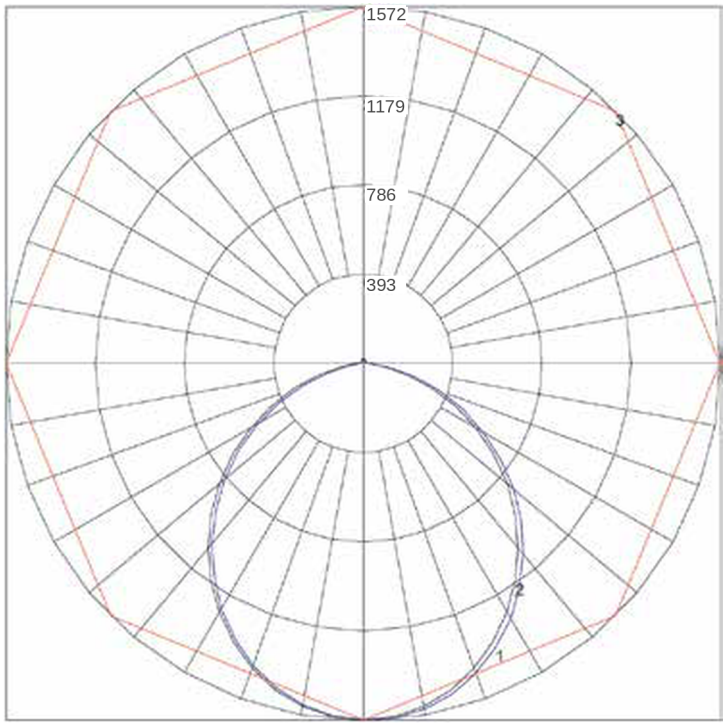




SECTION B-B

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Performance



Maximum Candela = 1572.35 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	569.20	14.10	14.10
0-30	1193.55	29.60	29.70
0-40	1923.73	47.70	47.80
0-60	3271.95	81.10	81.30
0-80	3908.90	96.90	97.10
0-90	3958.80	98.10	98.40
10-90	3810.35	94.40	94.70
20-40	1354.53	33.60	33.70
20-50	2081.97	51.60	51.70
40-70	1778.32	44.10	44.20
60-80	636.95	15.80	15.80
70-80	206.85	5.10	5.10
80-90	49.90	1.20	1.20
90-110	15.71	0.40	0.40
90-120	24.51	0.60	0.60
90-130	34.00	0.80	0.80
90-150	52.04	1.30	1.30
90-180	65.20	1.60	1.60
110-180	49.49	1.20	1.20
0-180	4024.00	99.70	100.00

Total Luminaire Efficiency = 99.70%

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	148.45
10-20	420.75
20-30	624.35
30-40	730.18
40-50	727.44
50-60	620.79
60-70	430.10
70-80	206.85
80-90	49.90
90-100	7.97
100-110	7.74
110-120	8.80
120-130	9.49
130-140	9.44
140-150	8.60
150-160	7.00
160-170	4.56
170-180	1.60