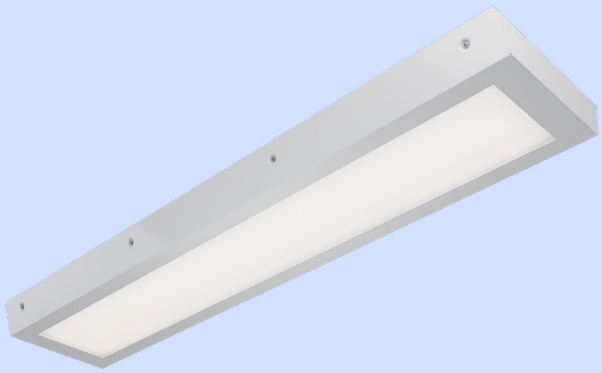
PROJECT | FIXTURE TYPE

CATALOG #

MIGHTY MAC® SSA

SURFACE CEILING MOUNT

Luminaires for Correctional Applications



PRODUCT FEATURES

- Surface ceiling mount – 1'×2' and 1'×4' sizes
- Low profile housing (2.9" deep) fits in tight spaces
- 90 CRI light engine provides even illumination, reduced glare & surface brightness
- TIG welded housing with no post grinding for additional strength
- Irretrievable blade trap/contraband drop slot
- Ligature-resistant construction

SPECIFICATIONS

HOUSING: One-piece die-formed prime grade material as specified – see Ordering Information. Corners continuously seam welded and smooth with no post grinding (TIG). Clamshell housing resistant to penetration and contraband concealment. TGIC polyester powder coat in gloss white with five-stage pre-treatment. Salt spray test: 1,000 hours.

BASEPLATE: Prime grade material as specified – see Ordering Information. Die-formed blade trap (1/4" minimum) prevents contraband concealment and access. Embossed standoffs prevent distortion. TGIC polyester powder coat in gloss white with five-stage pre-treatment. Salt spray test: 1,000 hours.

LENS: Material type and thickness as specified with total combined thickness not to exceed .625". See Ordering Information for availability. Kenall recommends a clear outer lens with a diffused (SYM) inner lens for uniform lens luminance, lower glare and best efficiency. Two clear lenses used in combination cannot be provided.

LENS RETENTION: Vertically adjustable continuous "Z" brackets of prime grade material, secured to housing via thru-studs (6" maximum spacing).

HINGE: 2' completely concealed internal drop slot piano hinge (1/2" knuckle/1/8" diameter pin) standard. Pin secured to knuckle. Hinge welded to outer housing and mounts to either side of baseplate via keyholes. See Options for Full Length Internal Hinge (IHF).

FASTENERS: Hardened security screws as specified – see Ordering Information. Fully recessed.

LUMINOUS SEAL: Polyurethane foam prevents light leaks from luminaire base.

LED MODULE: Serviceable back-lit LED array. Standard 90 CRI min. (R9 > 50). See Ordering Information for available color temperature options. 3 SDCM color variation max. Optional 2700K CCT white or 590nm amber night light with three field adjustable light levels (Nom. 10, 50, 150 lumens).

DRIVER: 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant-current drivers (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities. 347V input non-dim-to-dark. 0.4mA maximum driver source current.

SENSOR & CONTROLS: Wattstopper or third-party control options available upon request. To see the full list of compatible controls, click here.

INSTALLATION: Designed for surface-mounted installation over a recessed junction box with anchored attachment to rigid ceiling suitable for application. Not suitable for surface conduit or continuous row mounting. Suitable for -30°C to 40°C ambient environments, unless otherwise noted.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-19 standard by an ILAC/ISO17025 accredited laboratory. For additional photometric data, please go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratories for surface-mount ceiling and Damp Location installations. Optional Wet Location rating. Impact resistance greatly exceeding IK10 rating per IEC 62262 when constructed with PC or TG outer lens. Ligature-resistant construction. Build America, Buy America Act compliant.

ORDERING INFORMATION (EX: SSA-2-0/1-31L-30K9-DIM1-DV-SYM/B-1-NLA-IHF)

Model	Size	Door/Base	Lamp Power	Lamp Color	Driver Type	Voltage	Lens (Inner/Outer)	Fasteners	Options
SSA		/			DIM1		/		

Size
2 1'×2' Nominal
4 1'×4' Nominal

Housing/Base Material
9 12-Ga CRS in Gloss White
0 14-Ga CRS in Gloss White
1 16-Ga CRS in Gloss White
3 14-Ga Type 304 SS in Gloss White
4 16-Ga Type 304 SS in Gloss White
6* 14-Ga Type 304 SS with #3 Brushed Finish
7* 16-Ga Type 304 SS with #3 Brushed Finish

Lamp Power
1'×2'
22L 22W White LED
31L 31W White LED

1'×4'
27L 27W White LED
36L 36W White LED
44L 44W White LED
63L 63W White LED
80L 80W White LED

Lamp Color
30K9 3000K / 90 CRI min.
35K9 3500K / 90 CRI min.
40K9 4000K / 90 CRI min.
50K9 5000K / 90 CRI min.

Driver Type
DIM1 0-10V Dimming to 1%

Voltage
DV 120-277VAC, 50/60Hz
347 347VAC, 60Hz

Lens (Inner/Outer)‡
SYM» Symmetric, Diffused DR Acrylic
0 No Lens
1 .125" Prismatic Acrylic
2 .125" Prismatic Polycarbonate
3 .125" Textured Polycarbonate
G▲ .125" Clear Polycarbonate
4 .156" Prismatic Polycarbonate
TG .250" Textured Tempered Glass
6 .187" Prismatic Polycarbonate
7▲ .187" Clear Polycarbonate
8▲ .187" Clear Tempered Glass
9▲ .250" Clear Polycarbonate
A▲ .250" Clear Tempered Glass
B▲ .375" Clear Polycarbonate
C▲ .375" Clear Tempered Glass
J▲ .500" Clear Polycarbonate
P▲ .500" Clear Tempered Glass

Fastener
1 Torx® T-20 Head w/ Center Pin
2 Allen Head w/ Center Pin

Options
LEL† Integral 10W Emergency Battery Backup (4' only, 0°C min ambient)
LELST† Integral 6W Self-Testing Emergency Battery Backup (4' only, 0°C min ambient)
NLW† 2700K White LED Night Light
NLA† Amber LED Night Light
FS Single Fuse & Holder
IHF Full Length Internal Hinge
RGT Removable Gear Tray
SK Speaker Housing Extension
WL Wet Location Listed

* n/a as Base Material
‡ Refer to lens specifications
» Can only be used with clear outer lens
▲ Must be paired with prismatic, textured or diffused lens
† n/a with 347V

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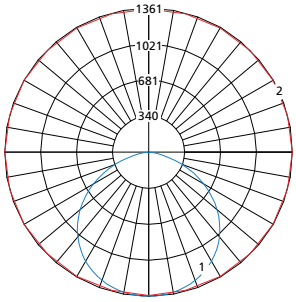
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PERFORMANCE

Model	Lamp Code	Initial Delivered Lumens, By Lamp Color (lm)				Efficacy (lm/W)	Input Power (W)	TM-21 Reported L70 (hrs)
		30K9	35K9	40K9	50K9			
SSA-2	22L	2,628	2,692	2,692	2,755	107 - 112	25	>102,000
	31L	3,688	3,779	3,778	3,867	99 - 104	37	
SSA-4	27L	3,587	3,675	3,674	3,761	124 - 130	29	>102,000
	36L	5,013	5,136	5,135	5,257	125 - 131	40	
	44L	6,019	6,167	6,165	6,312	122 - 129	49	
	63L	8,268	8,471	8,469	8,670	119 - 125	69	
	80L	10,069	10,316	10,314	10,559	114 - 119	89	

NOTE: Performance evaluated with SYM/7 lens combination - see Performance Scaling table for alternate lens combinations. Information subject to change without notice.
All testing conducted by an ILAC/ISO17025 accredited laboratory. Please visit www.kenall.com for IES files and additional information.

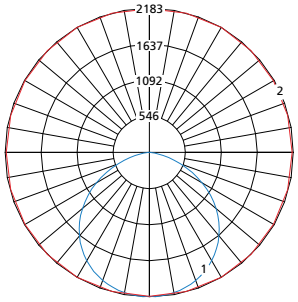
Model: SSA-2-q_r-31L-40K9-DIM1-DV-SYM_7-yy-zz



Max Candela = 1361 Located At Horizontal Angle = 0, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (0-180) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

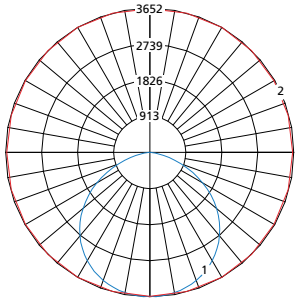
Model: SSA-4-q_r-44L-40K9-DIM1-DV-SYM_7-yy-zz



Max Candela = 2183 Located At Horizontal Angle = 60, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (60-240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

Model: SSA-4-q_r-80L-40K9-DIM1-DV-SYM_7-yy-zz



Max Candela = 3652 Located At Horizontal Angle = 60, Vertical Angle = 2.5

1 - Vertical Plane Through Horizontal Angles (60-240) (Through Max. Cd.)
2 - Horizontal Cone Through Vertical Angle (2.5) (Through Max. Cd.)

LENS FACTOR SCALING

Lens Configuration	Inner Lens	Outer Lens	Lumen Scaling Factor
SYM/G	1/8" Frost Acrylic	1/8" CLEAR PC	0.99
SYM/7		3/16" CLEAR PC	1.00
SYM/8		3/16" CLEAR TG	1.01
SYM/9		1/4" CLEAR PC	0.96
SYM/B		3/8" CLEAR PC	0.99
SYM/C		3/8" CLEAR TG	0.99
SYM/J		1/2" CLEAR PC	0.90
1/G	1/8" Prismatic Acrylic	1/8" CLEAR PC	*
1/9		1/4" CLEAR PC	*
1/8		3/8" CLEAR PC	*
2/J	1/8" Prismatic PC	1/2" CLEAR PC	*

*Not a recommended lens combination for both visual appearance or performance. Legacy specifications are recommended to be updated to SYM inner lens for optimal use with LED lamping..

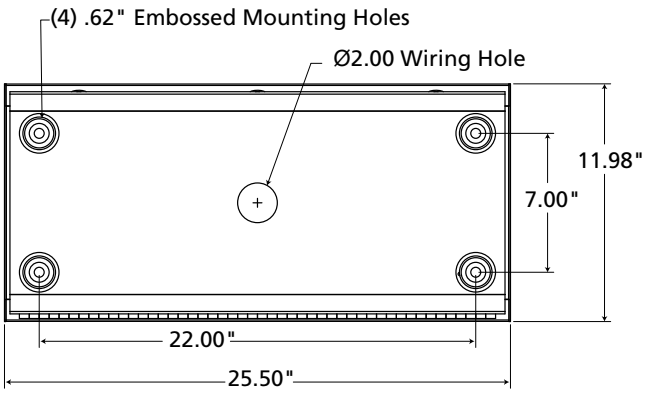
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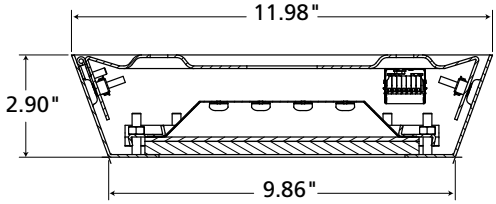
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DIMENSIONAL DATA

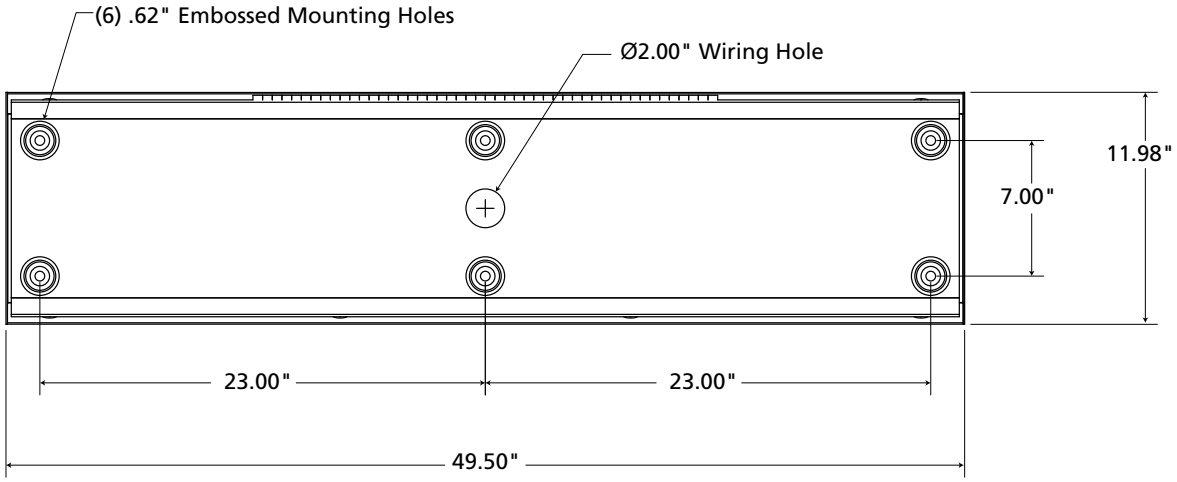
1'×2' Top View



1'×2' & 1'×4' Cross Section



1'×4' Top View



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