



FEATURES & SPECIFICATIONS

INTENDED USE — The EMS-ENS series is an attractive and energy-efficient surface-mounted or suspended linear fluorescent luminaire, suitable for wet, damp and/or cold locations. For challenging situations where relatively low fixture mounting heights and wide fixture spacings are common — such as parking garages, industrial facilities, retail malls, multi-purpose centers and airports. **Certain airborne contaminants can diminish integrity of acrylic.** [Click here for Acrylic Environmental Compatibility table, for suitable uses.](#)

CONSTRUCTION — Shallow 4-1/8" depth overall and attractively contoured diffuser, obscure lamp while maintaining high transmission of light. Power connection is easily accommodated through pre-drilled holes at each end, with watertight plugs provided for maximum flexibility. Easily mounted to ceilings and structure, or suspended with chain, cable or rod, using mounting brackets.

White one-piece fiberglass housing with integral perimeter channel utilizing continuous poured-in-place closed cell gasket. Tool-less ballast and wiring access.

UL listed for wet locations; IP65 and IP67 stainless steel latches are standard.

OPTICS — Precision-formed, high-performance, 95% total reflectance optics utilizing premium specular aluminum warranted for 25 years. White reflectors have 93+% total reflectance and are finished with an in-house polyester powder coating system.

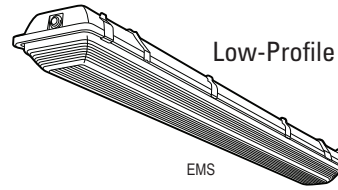
Factory-installed lamps are available in various CRI ratings, temperature colors and rated life.

ELECTRICAL — UL listed wire, rated for required temperatures, used throughout. Lamps are secured with rotary locking lamp sockets for ease of relamping and to reduce lamps disconnecting due to vibration or incidental contact. Luminaire is bi-national listed (UL 1598 and CSA C22.2 No. 250.0-00) and is suitable for wet locations.

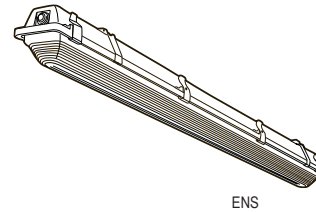
All standard ballasts are electronic, energy saving, thermally protected, Class-P, HPF, non-PCB, Sound Rated A, UL/CSA certified where applicable and comply with © Federal Ballast Law (Public Law 100-357, 1988). Default ballast configuration is for two-lamp ballasts except for one-lamp fixtures.

Catalog Number	
Notes	Type

EMS-ENS



Low-Profile Enclosed and Gasketed Specular T5HO and T8 Lamps



INSTALLATION — The luminaire may be surface mounted or may be suspended by chain or cable. Stainless steel mounting brackets included (two per luminaire), pre-punched for easy field-attachment of bolts, screws and other mounting hardware.

WARRANTY — Standard one-year warranty for the fixture. Ballasts carry manufacturer warranties of three to five years, depending on the application.

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: EMS4 2 32 S1X32 IMACL MVOLT GEB10IS

<table border="1"> <tr><th>Series</th></tr> <tr><td>EMS4 7" x 4' ¹</td></tr> <tr><td>EMS8 7" x 8'</td></tr> <tr><td>ENS4 4" x 4'</td></tr> </table>	Series	EMS4 7" x 4' ¹	EMS8 7" x 8'	ENS4 4" x 4'	<table border="1"> <tr><th>Number of lamps</th></tr> <tr><td>1</td></tr> <tr><td>2</td></tr> </table>	Number of lamps	1	2	<table border="1"> <tr><th>Lamp type</th></tr> <tr><td>54T5HO 54W T5HO</td></tr> <tr><td>32 32W T8</td></tr> </table>	Lamp type	54T5HO 54W T5HO	32 32W T8	<table border="1"> <tr><th>Shielding</th></tr> <tr><td>IMACL High-impact acrylic</td></tr> <tr><td>BMPCL Polycarbonate lens³</td></tr> </table>	Shielding	IMACL High-impact acrylic	BMPCL Polycarbonate lens ³	<table border="1"> <tr><th>Voltage</th></tr> <tr><td>MVOLT 120V-277V</td></tr> <tr><td>HVOLT 347V-480V</td></tr> </table>	Voltage	MVOLT 120V-277V	HVOLT 347V-480V	<table border="1"> <tr><th>Lamp color</th></tr> <tr><td>(blank) No lamps</td></tr> <tr><td>LP841 85 CRI, 4100°K, std. life</td></tr> </table>	Lamp color	(blank) No lamps	LP841 85 CRI, 4100°K, std. life
Series																								
EMS4 7" x 4' ¹																								
EMS8 7" x 8'																								
ENS4 4" x 4'																								
Number of lamps																								
1																								
2																								
Lamp type																								
54T5HO 54W T5HO																								
32 32W T8																								
Shielding																								
IMACL High-impact acrylic																								
BMPCL Polycarbonate lens ³																								
Voltage																								
MVOLT 120V-277V																								
HVOLT 347V-480V																								
Lamp color																								
(blank) No lamps																								
LP841 85 CRI, 4100°K, std. life																								
<table border="1"> <tr><th>Distribution/Reflector</th></tr> <tr><td>Distribution S1 Spread B1 Broad²</td></tr> <tr><td>Reflector X32 MIRO® 4, .032"</td></tr> </table>			Distribution/Reflector	Distribution S1 Spread B1 Broad ²	Reflector X32 MIRO® 4, .032"	<table border="1"> <tr><th>Ballast</th></tr> <tr><td>GEB10IS Normal ballast factor, ≤10% THD, instant start</td></tr> <tr><td>GEB10ISH High ballast factor, ≤10% THD, instant start</td></tr> <tr><td>GEB10PS90 1.0 ballast factor, ≤10% THD, programmed rapid start</td></tr> </table>		Ballast	GEB10IS Normal ballast factor, ≤10% THD, instant start	GEB10ISH High ballast factor, ≤10% THD, instant start	GEB10PS90 1.0 ballast factor, ≤10% THD, programmed rapid start													
Distribution/Reflector																								
Distribution S1 Spread B1 Broad ²																								
Reflector X32 MIRO® 4, .032"																								
Ballast																								
GEB10IS Normal ballast factor, ≤10% THD, instant start																								
GEB10ISH High ballast factor, ≤10% THD, instant start																								
GEB10PS90 1.0 ballast factor, ≤10% THD, programmed rapid start																								

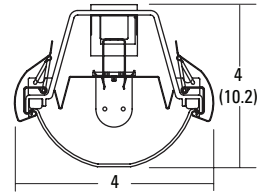
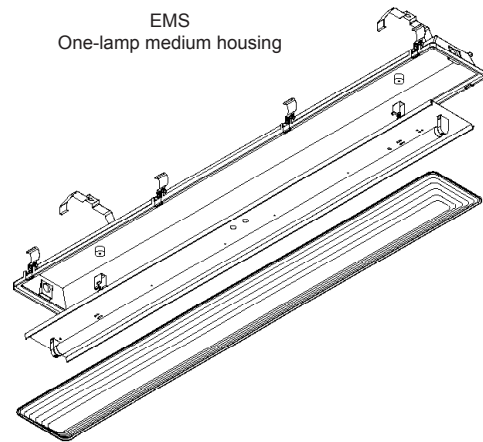
NOTES:

- 1 Available only with one-lamp configuration.
- 2 Available only with EMS series, one-lamp configuration.
- 3 Available only in 4' length.

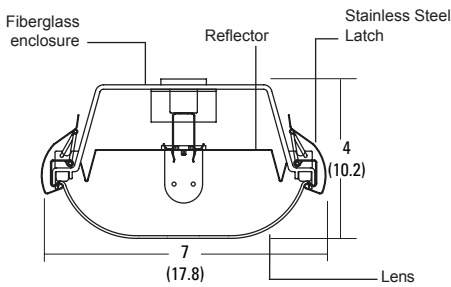
EMS-ENS Low-Profile Enclosed and Gasketed Specular

DIMENSIONS

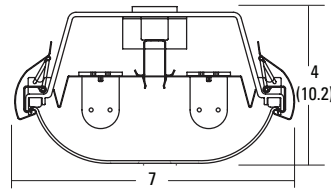
All dimensions are in inches (centimeters).



ENS
One-lamp narrow housing



EMS
One-lamp medium housing

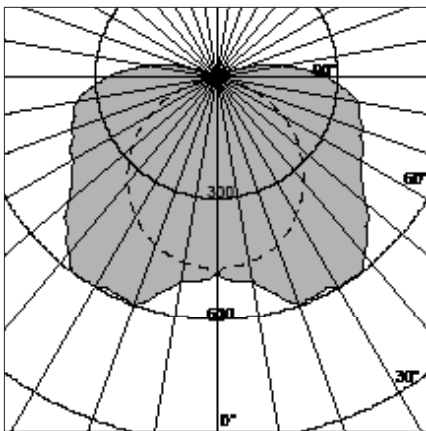


EMS
Two-lamp medium housing

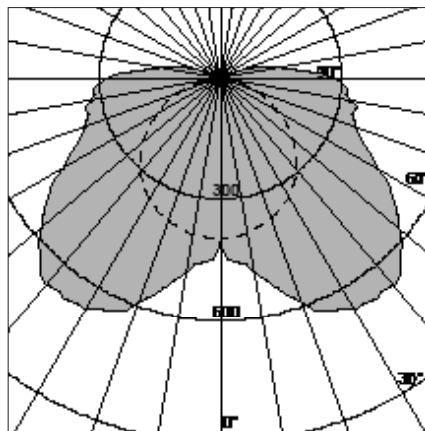
PHOTOMETRICS

SC Across Definitions:

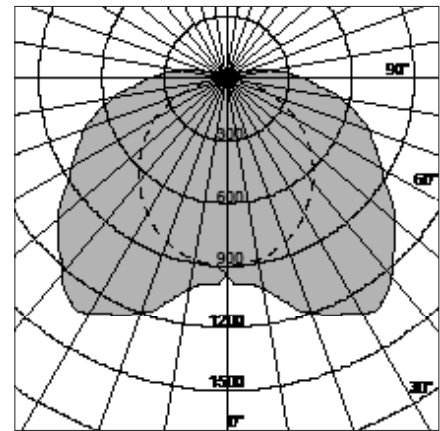
- Focus (SC < 0.9), i.e. F1
- Task (0.9 ≤ SC < 1.2), i.e. T1
- Normal (1.2 ≤ SC ≤ 1.4), i.e. N1X20, N1
- Spread (1.4 < SC ≤ 1.8), i.e. S1
- Broad (1.8 < SC), i.e. B1



EMS4 1 32 S1X32
Test #ALP200504_S
Fixture Efficiency: 81.9%
SC Across: 1.7, SC Along: 1.2



EMS4 1 32 B1X32
Test #ALP200431_S
Fixture Efficiency: 84.1%
SC Across: 2.1, SC Along: 1.2



EMS4 2 32 S1X32
Test #ALP200503_S
Fixture Efficiency: 79.7%
SC Across: 1.8, SC Along: 1.2