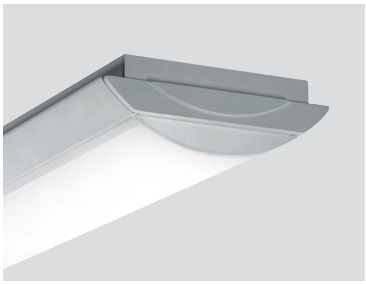
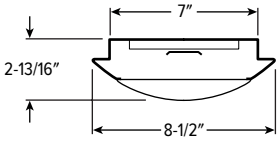
ASM LED Architectural Surface Mount





CATALOG #:

Type:

PROJECT:

FEATURES

- Fixture can be surface mounted or semi-recessed for ultra-low-profile look
- Aircraft cable or pendant mount fixture for additional mounting choices
- Decorative die-cast aluminum end caps provide high-end appearance
- Optional anti-microbial white finish available for use in healthcare applications
- Maximize energy savings with efficacies as high as 144 lm/W
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – .040″ die-formed aluminum with die-cast decorative end caps.
- SHIELDING – Ribbed acrylic diffuser.
- FINISH – Textured matte white polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L85 >50,000 hours per IES TM-21. 25°C maximum ambient operating temperature. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shades of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Semi-recessed in NEMA Type “G” ceiling, surface (ceiling or wall), or suspended.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - DesignLights Consortium qualified product. Not all versions of this product may be DLC qualified, see the DLC Qualified Products List at www.designlights.org/QPL
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

ORDERING EXAMPLE: ASM - 4 - L46/835 - P - F - A - AC(Y12)/D24 - OPTIONS - CONTROL/DIM - UNV

SERIES	LENGTH	LUMENS [1]	CRI	CCT	MOUNTING TYPE	FIXTURE TYPE
ASM	**4** 4′	4′	**8** 80	**27** 2700K	**S** Surface	**F** Electrical feeder unit [4]
	8 8′ [2]	**L25** 2,500lm	**9** 90	**30** 3000K	**P** Suspended	**J** Joiner unit [5]
		L46 4,600lm		**35** 3500K	**R** Semi-recessed [3]	**S** Stand-alone unit [6]
		8′		**40** 4000K		
		L50 5,000lm		**50** 5000K		
		L92 9,200lm		**TW** Tunable white (3000K–5000K)		
				TW2 Tunable white (2700K-6500K)		

SHIELDING [7]

A Ribbed acrylic diffuser

MOUNTING (EXAMPLE: AC(Y12)/D24) [8]

ADJUSTABLE AIRCRAFT CABLE

Prefix	Type	Length
AC(Y12)/	**D** 1″ grid & hardpan	**24** 24″
	N 9/16″ grid	**48** 48″
	S Slot grid	**96** 96″

PENDANT MOUNT [10]

SS-__ Specify length in inches [11]

OPTIONS

*See page 3 for **FINISH OPTIONS**.*

EM/10WLP Low-profile 10-watt emergency battery
AMW Anti-microbial white finish
(L__) Additional lower lumen packages available [9]
Example: 3,500 lumens = ASM-4-L46/835-A-**(L35)**

CONTROL

*Click **HERE** for control and sensor options.*

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS**.*

DIM Driver with external 0-10V dimming wires
DIM1 1 % Driver with external 0-10V dimming wires
DRV Driver without external dimming wires [12]

VOLTAGE

120 120V
277 277V
UNV 120-277V

NOTES

1. Lumen output based on 80 CRI/3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. Ships with (2) 4′ lenses.
3. Available in stand-alone fixtures only.
4. Two end caps packed with fixture. Provided with quick-connect wiring harness. See page 3 for QUICK-CONNECT OPTIONS. Suspended includes straight white cord standard. Wire gauge to be determined by row length.
5. Provided with quick-connect wiring harness and row aligner. See page 3 for QUICK-CONNECT OPTIONS.
6. Two end caps included. Suspended includes straight white cord standard. Wire gauge to be determined by row length.
7. See page 2 for FIXTURE DETAILS.
8. See page 3 for MOUNTING DETAILS. Power cord provided with aircraft cables only. Specify with suspended mounting type only.
9. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
10. 3/8″ IPS Stem and ø5″ canopy.
11. 4″ minimum. Two stem sets required. One additional stem set required for each row mounted fixture.
12. Not available with tunable white.

ASM LED
Architectural Surface Mount

FIXTURE PERFORMANCE DATA

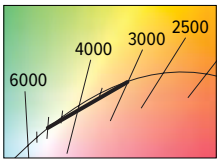
	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
4′	L25	2614	19.5	134
	L46	4682	33.9	138
8′	L50	4917	34.0	145
	L92	9212	64.7	142

- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K for static white and 4000K for tunable white, wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier table to calculate additional options.
- POE PR fixture efficacy is typically 10-12% higher than shown at same lumen level. Consult factory during project design phase for details.

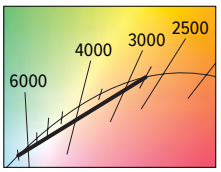
MULTIPLIER TABLE

	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

TW

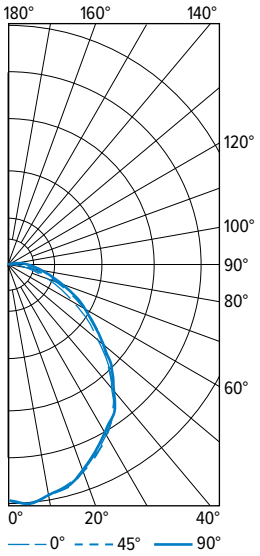


TW2



PHOTOMETRY

ASM-4-L46/835-A-S-DIM-UNV Total Luminaire Output: 4682 lumens; 33.9 Watts | Efficacy: 138.2 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION

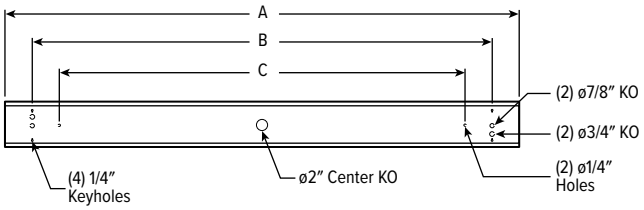
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
0	1792	1792	1792	
5	1822	1820	1820	172
15	1742	1737	1731	487
25	1576	1565	1558	719
35	1370	1368	1368	846
45	1045	1075	1082	821
55	701	765	780	676
65	411	503	522	483
75	190	288	306	287
85	48	136	166	136
90	11	77	111	
95	0	41	72	45
105	0	0	24	10
115	0	0	0	1
125	0	0	0	0
135	0	0	0	0
145	0	0	0	0
155	0	0	0	0
165	0	0	0	0
175	0	0	0	0
180	0	0	0	

LUMEN SUMMARY

ZONE	LUMENS	% FIXTURE
0 - 30	1378	29
0 - 40	2223	48
0 - 60	3720	79
0 - 90	4625	99
90 - 120	57	1
90 - 150	57	1
90 - 180	57	1
0 - 180	4682	100

FIXTURE DETAILS

BACK VIEW



	A	B	C
4′	46-13/16″	40″	32″
8′	93-5/8″	87″	80″

Dimension A is for row-mounted units without end caps. End caps add 3/4″ to dimension A.

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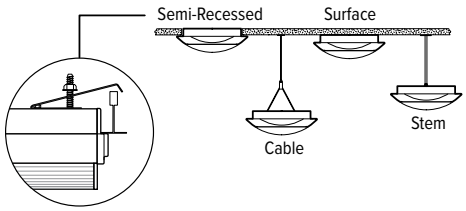
MOUNTING DETAILS

CONTINUOUS ROW

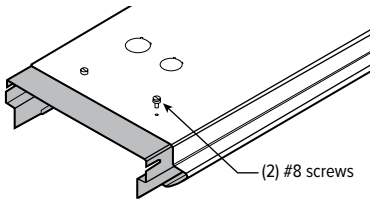


Semi-recessed model is suitable for installation in NEMA Type "G" ceiling system of 1" wide (nominal) tees mounted across ends of fixture 48" O.C., using factory furnished mounting brackets. Fixtures may be mounted in continuous row. Ceiling tiles are supported along sides by fixture housing. Fixture protrudes 2" below ceiling plane.

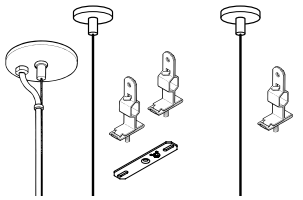
Depending on installation method, cable mounting may require additional counter-weights due to side-mounted driver.

ROW ALIGNER

Provided when specified with joiner fixture type.



STANDARD HARDWARE FOR SUSPENDED PRODUCT (Grid and Hardpan)



Feeder/Stand-Alone Joiner

Notes:

- Fixtures specified with suspended mounting type are provided with adjustable length aircraft cables with two-point "Y" connectors and mounting hardware, must specify.
- Electrical supply is brought into the feeder fixture, either as part of a row or as a stand-alone unit. Joiner fixtures complete the row.
- The feeder kits are standard with a 5" canopy to cover the junction box and a 2" canopy at the non-feed point. No J-box is required at non-feed points.

CORD FOR SUSPENDED PRODUCT

Units specified with aircraft cable require cord. Please specify cord type using ordering information below. Long fixture rows may require multiple feed points based on 18ga conductor size.

EXAMPLE: S2438D/W				
CORD TYPE	LENGTH	# OF COND.	WIRE SIZE	COLOR
S	**24** 24" **48** 48" **96** 96"	**3** **4** **5** [1] **6** [1]	**8D** 18ga	**/W** White **/B** Black

[1] Includes (2) 22ga purple & pink dimming conductors

FINISH OPTIONS

WHITE BLACK BRONZE NICKEL SILVER ALUM RAL#____

For custom color, please specify RAL code or a manufacturer code with description. All custom colors other than RAL require four sample swatches, minimum 1" square.

QUICK-CONNECT OPTIONS

Note: Quick-connect wiring required for row mounting. All QC harnesses contain (5) 16ga conductors plus ground.

DESIGNATION	NUMBER OF 16GA WIRES FACTORY CONNECTED (EXCLUDING GROUND)	WIRE COLOR/POWER SUPPLY FACTORY CONNECTIONS	TYPICAL USE
QCBW	2	Black, White	On/off switching (DRV) or line voltage dimming (DIM LINE)
QCRW	2	Red, White	Alternating circuits on/off switching (DRV) or line voltage dimming (DIM LINE)
QCBRW	3	Black, Red, White	On/off switching (DRV) or line voltage dimming when equipped with EM battery packs
QCBW/PK	4	Black, White, Purple, Pink	Single circuit with 0-10V low voltage dimming (DIM)
QCRW/PK	4	Red, White, Purple, Pink	Alternating circuits on/off switching with 0-10V low voltage dimming (DIM)
QCBRW/PK	5	Black, Red, White, Purple, Pink	On/off switching when equipped with EM battery packs and 0-10V dimming (DIM)
QCBW/RPK	5	Black, White, Red, Purple, Pink	On/off switching with 0-10v dimming and 0-10v tunable using shared common
QCUU	N/A	N/A	QC harness passes through fixture, but is not connected to it

ADDITIONAL DRIVER OPTIONS

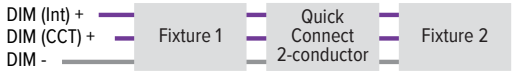
Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls dimming and (1) 0-10V signal controls CCT)
DIM1	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
PoE PR	Power over Ethernet-ready, fixture powered and controlled by remote UL- or CSA-listed PoE driver

1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM



DMX

DALI

LD2