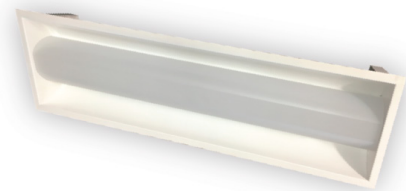


PROJECT: \_\_\_\_\_  
 TYPE: \_\_\_\_\_  
 PRODUCT: \_\_\_\_\_  
 APPROVED BY: \_\_\_\_\_

## PRODUCT FEATURES

- Intended for Patient Rooms, Skilled Nursing Facilities, Assisted Living, Clinics, and more
- Multi-Function patient room luminaire with tool-free room-side lens removal to access LED boards
- Provides reading, ambient and exam functions in 1x4, 2x2, and 2x4 dimensions
- AAOH14 can be used in pairs adjacent to the patient bed. Fixtures are quoted and sold individually
- Recessed Grid with optional Flange conversion kit
- Fixture certified by Intertek Testing Laboratories for Damp locations
- This product is Made in America and complies with the Buy American Act (BAA), and the Build America, Buy America Act (BABAA)



AAOH Series

## ORDERING INFORMATION

EXAMPLE: AAOHG22-HC20-F240-RW-90C-UN-DMI



AAOH		G					RW
<b>Series</b>	<b>Mounting</b> G = Grid	<b>Size*</b> 14 = 1x4** 22 = 2x2 24 = 2x4  *Nominal Size. Dimensional Data on page 2. **AAOHG14 can be used as pairs adjacent to the patient bed. Fixtures quoted and sold individually.	<b>Housing</b> HC20 = 20Ga. CRS Painted HC16 = 16Ga. Alum Painted	<b>Function*</b> F2 = 2 Functions (Ambient & Exam) F3L = 3 Functions (Low Reading, Ambient & Exam) F3H = 3 Functions (High Reading, Ambient & Exam)  *Nominal Size. Dimensional Data on page 2.	<b>Color Temp.</b> 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K TW1 = Tunable White 2700K to 5000K TW2 = Tunable White 2700K to 6500K	<b>Diffuser</b> RW = White Polycarbonate	

90C					
<b>CRI</b> 90C = 90 CRI	<b>Voltage</b> 12 = 120V 27 = 277V UN = Universal (120-277V)	<b>Driver Type</b> DMI = 0-10V Dimming to 1%  <b>Tunable White Driver*:</b> TWO = 2 CHANNEL 0-10V TWD = 2 CHANNEL DALI8  *Tunable White Driver requires choice of TW1 or TW2 in Color Temp column.	<b>Options</b> FZ1 = Fuse (120V) FZ2 = Fuse (277V) LVD = Multi-load Dimming Low Voltage Controller*  *Provides control of lighting from a pillow speaker, bedside rail or wall switch.	<b>Accessory</b> FK = Flange Conversion Kit* EL1 = Remote Emerg. Battery (10W)**  *Consult factory for details. **Provided with test switch on a wall plate unless otherwise specified. Requires unswitched line. Consult factory for CA Title 24 options. If stored, batteries should be fully recharged every six months and kept between 0°C-25°C to maintain optimal battery capacity.	

## SPECIFICATIONS

**HOUSING:** 20-Gauge formed cold rolled steel or 16-gauge aluminum housing with continuous seam welds.

**LENS:** Extruded white polycarbonate lens. Unique clip design allows for tool-free lens removal to access LED boards and drivers from room-side.

**LED:** LED sources available in four color temperatures 3000K, 3500K, 4000K and 5000K with maximum 3-step MacAdam variation allowance. Tunable White also available, from 2700K - 5000K or 2700K- 6500K. Minimum 50,000 hours with 70% lumen maintenance in a 25°C ambient temperature environment, compliant with IES LM-80 testing standards.

**ELECTRICAL:** 120-277VAC 50/60HZ electrical input high power factor electronic, constant current driver (<20% THD, >0.95 PF). Each function is independently circuited for individual control. Standard 0-10V dimming with 1-100% range for ambient and reading functions.

**OPTIONAL TW DRIVERS:**

- TW0** = 2 CHANNEL 0-10V one channel for brightness, one channel for CCT
- TWd** = 2 CHANNEL DALI8 one channel for brightness, one channel for CCT

**LOW VOLTAGE CONTROL:** Voltage-specific LVD controls ambient and reading functions, standard dimming. Exam and Night Light are on separate line voltage circuits, no dimming. The exam is typically wired to a wall switch (by others). Other configurations are available – consult factory. Leads are factory labeled for field installation. Controls and additional accessories by others.

**FINISH:** White antimicrobial polyester powder coat finish following multi-stage iron phosphate pretreatment.

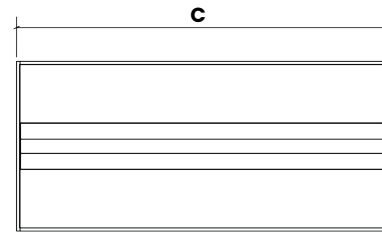
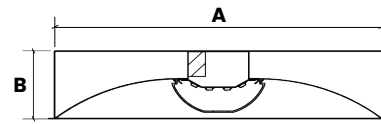
**INSTALLATION:** Grid installation standard. Optional Flange conversion kit (must specify under Accessory).

**WARRANTY:** Five Year Warranty.

**LABEL:** Fixture is certified Damp Location to UL standards by Intertek Testing Laboratories. This product was Made in America and complies with the Buy American Act (BAA), and the Build America, Buy America Act (BABAA).

## DIMENSIONAL DATA

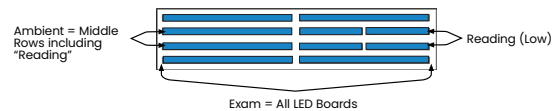
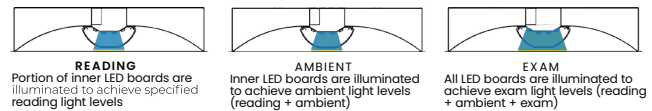
\*Note, below dimensional data shows "L4 = High" lumen output. LED board configuration subject to change based on specified lumen output.



	A	B	C
<b>AAO14</b>	11.750"	5.190"	47.688"
<b>AAO22</b>	23.750"	5.174"	23.750"
<b>AAO24</b>	23.750"	5.174"	47.688"

## FUNCTIONALITY\*

\*Below configuration is an example of a 3 function fixture (F3L). Light levels are achieved when functions are used in conjunction with one another. Note, Step Dimming (FSD) will illuminate all LED boards and will be step dimmed to achieve specified light levels. Please consult factory for other configuration examples.



**PERFORMANCE DATA\***

\*LEDs are frequently updated therefore values may change without notice.

MODEL	FUNCTION	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)	
AAOH14	F2 = Ambient & Exam	Ambient	30 = 3000K	5250	105	50	
			35 = 3500K	5500	110	50	
			40 = 4000K	5650	113	50	
			50 = 5000K	5900	118	50	
		Exam All LED boards	30 = 3000K	9900	99	100	
			35 = 3500K	10400	104	100	
			40 = 4000K	10700	107	100	
			50 = 5000K	11000	110	100	
	F3L = Reading, Ambient, Exam	Reading	30 = 3000K	1313	105	12.5	
			35 = 3500K	1375	110	12.5	
			40 = 4000K	1413	113	12.5	
			50 = 5000K	1450	116	12.5	
		Ambient = Reading + Ambient	30 = 3000K	5250	105	50	
			35 = 3500K	5500	110	50	
			40 = 4000K	5650	113	50	
			50 = 5000K	5800	116	50	
		Exam = All LED boards	30 = 3000K	9900	99	100	
			35 = 3500K	10400	104	100	
			40 = 4000K	10700	107	100	
			50 = 5000K	11000	110	100	
		F3H = High Reading, Ambient, Exam	High Reading	30 = 3000K	2625	105	25
				35 = 3500K	2750	110	25
				40 = 4000K	2826	113	25
				50 = 5000K	2900	116	25
	Ambient = Reading + Ambient		30 = 3000K	5250	105	50	
			35 = 3500K	5500	110	50	
			40 = 4000K	5650	113	50	
			50 = 5000K	5800	116	50	
Exam = All LED boards	30 = 3000K		9900	99	100		
	35 = 3500K		10400	104	100		
	40 = 4000K		10700	107	100		
	50 = 5000K		11000	110	100		



**New Star Lighting**  
 2225 W Pershing Rd, Chicago, IL 60609  
 (773) 847-1400  
 www.newstarlighting.com

Specifications and dimensions are subject to change without notice. For additional options and dimensional details, please consult your New Star Lighting representative.

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**PERFORMANCE DATA CONT.\***

\*Data is with 80 CRI chip. LEDs are frequently updated therefore values may change without notice.

MODEL	FUNCTION	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)
AAOH22	F2 = Ambient + Exam	Ambient	30 = 3000K	2450	98	25
			35 = 3500K	2575	103	25
			40 = 4000K	2650	106	25
			50 = 5000K	2725	109	25
		Exam = All LED boards	30 = 3000K	4750	95	50
			35 = 3500K	5000	100	50
			40 = 4000K	5150	103	50
			50 = 5000K	5300	106	50
	F3L = Low Reading, Ambient, Exam	Low Reading	30 = 3000K	1250	100	12.5
			35 = 3500K	1313	105	12.5
			40 = 4000K	1350	108	12.5
			50 = 5000K	1388	111	12.5
		Ambient = Reading + Ambient	30 = 3000K	2450	98	25
			35 = 3500K	2575	103	25
			40 = 4000K	2650	106	25
			50 = 5000K	2725	109	25
		Exam = All LED boards	30 = 3000K	4750	95	50
			35 = 3500K	5000	100	50
			40 = 4000K	5150	103	50
			50 = 5000K	5300	106	50



**PERFORMANCE DATA CONT.\***

\*Data is with 80 CRI chip. LEDs are frequently updated therefore values may change without notice.

MODEL	FUNCTION	OUTPUT	COLOR TEMP.	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)	
AAOH24	F2 = Ambient + Exam	Ambient	30 = 3000K	5450	109	50	
			35 = 3500K	5700	114	50	
			40 = 4000K	5850	117	50	
			50 = 5000K	6000	120	50	
		Exam = All LED boards	30 = 3000K	10600	106	100	
			35 = 3500K	11100	111	100	
			40 = 4000K	11400	114	100	
			50 = 5000K	11700	117	100	
	F3L = Low Reading, Ambient, Exam	Low Reading	30 = 3000K	1362.5	109	12.5	
			35 = 3500K	1425	114	12.5	
			40 = 4000K	1475	118	12.5	
			50 = 5000K	1512	121	12.5	
		Ambient = Reading + Ambient	30 = 3000K	5400	108	50	
			35 = 3500K	5650	113	50	
			40 = 4000K	5850	117	50	
			50 = 5000K	6000	120	50	
		Exam = All LED boards	30 = 3000K	10600	106	100	
			35 = 3500K	11100	111	100	
			40 = 4000K	11400	114	100	
			50 = 5000K	11800	118	100	
		F3H = High Reading, Ambient, Exam	High Reading	30 = 3000K	2625	105	25
				35 = 3500K	2750	110	25
				40 = 4000K	2826	113	25
				50 = 5000K	2900	116	25
	Ambient = Reading + Ambient		30 = 3000K	5400	108	50	
			35 = 3500K	5650	113	50	
			40 = 4000K	5850	117	50	
			50 = 5000K	6000	120	50	
Exam = LED boards	30 = 3000K		10600	106	100		
	35 = 3500K		11100	111	100		
	40 = 4000K		11400	114	100		
	50 = 5000K		11800	118	100		



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