AURAMED™ CONTEMPO MULTI-FUNCTION SERIES

NewStarLighting

PROJECT: _____

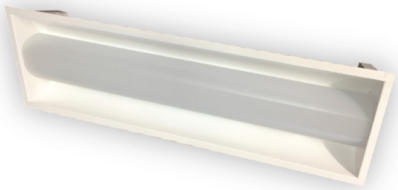
TYPE: _____

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-DM1

AAOH	**G**					**RW**
Series	**Mounting** **G** = Grid	**Size*** **14** = 1x4** **22** = 2x2 **24** = 2x4 *Nominal Size. Dimensional Data on page2. **AAOHG14 can be used as pairs adjacent to the patient bed. Fixtures quoted and sold individually.	**Housing** **HC20** = 20Ga. CRS Painted **HC16** = 16Ga. Alum Painted	**Function*** **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.	**Color Temp.** **30** = 3000K **35** = 3500K **40** = 4000K **50** = 5000K **TW1** = Tunable White 2700K to 5000K **TW2** = Tunable White 2700K to 6500K **BIOS Options:*** **BIOS Color Temp.**** B30 = 3000K B35 = 3500K B40 = 4000K **BIOS Tunable CCT**** BTW1 = 2700K-3500K BTW2 = 2700K-4000K *Choosing this, you must also pick a BIOS driver under the Driver column. **Please choose corresponding BIOS driver.	**Diffuser** **RW** = White Polycarbonate

90C					
CRI **90C** = 90 CRI	**Voltage** **12** = 120V **27** = 277V **UN** = Universal (120-277V)	**Driver Type** **DM1** = 0-10V Dimming to 1% **Tunable White Driver*:** **DALI8** = 1-Channel **TW0** = 2-Channel 0-10V **BIOS Driver:**** **STC** = Static BIOS*** **DMB** = Dynamic BIOS Dimming**** *Allows for Inboard/Outboard Control **BIOS drivers only work with BIOS LEDs. Must select STC or DMB option, otherwise leave field blank and standard 0-10V driver will be provided. ***0-10V with Dimming from 1%-100%. ****0-10V Intensity Dimming to 1% and Dim-to-Dark capabilities	**Dimming/Control** **LVD** = Multi-load Dimming Low Voltage Controller* *Provides control of lighting from a pillow speaker, bedside rail or wall switch.	**Options** **FZ1** = Fuse (120V) **FZ2** = Fuse (277V)	**Accessory** **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.

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.

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.

Optional BIOS® SkyBlue® circadian solutions to produce the healthy "blue sky" light signal with blue spectrum peak at 490nm+ for circadian entrainment. Bio-Dimming™ reduces CCT by 2700K.

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:

DALI8 - DALI Type 8 (One DALI Address)
TW0 - Two Channel 0-10V dimming; one channel for brightness, one channel for CCT

Optional BIOS driver options:
STC - BIOS control 0-10V with Dimming from 1%-100% and Dynamic Bios Dimming with 0-10V Intensity Dimming to 1% and Dim-to-Dark capabilities.

DMB - Dynamic BIOS control 0-10V with dynamic spectrum and BIOS SkyBlue® with Bio-Dimming™, which changes a spectral qualities by removing the SkyBlue component when dimming from 100%-51%, while light output remains relatively constant; CCT will decrease approximately 500K through bio-dimming; dimming from 50% to 1% will then reduce light output.

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. One low voltage controller per pair is recommended. Leads are factory labeled for field installation. Controls and additional accessoriesby others.

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

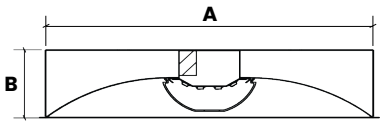
INSTALLATION: Grid installation standard. Optional Flange conversion kit (must specify under Accessory).

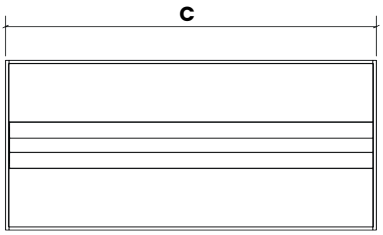
WARRANTY: Five Year Warranty.

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.

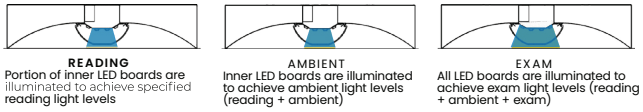




	A	B	C
AAO14	11.750"	5.190"	47.688"
AAO22	23.750"	5.174"	23.750"
AAO24	23.750	5.174"	47.688"

FUNCTIONALITY*

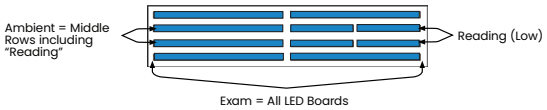
*Below configuration is an example of a 3 function fixture (F3L). Light levels are achieved when functions are used in conjunction with one another. Note, Step Dimming (FSD) will illuminate all LED boards and will be step dimmed to achieve specified light levels. Please consult factory for other configuration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



READING
Portion of inner LED boards are illuminated to achieve specified reading light levels

AMBIENT
Inner LED boards are illuminated to achieve ambient light levels (reading + ambient)

EXAM
All LED boards are illuminated to achieve exam light levels (reading + ambient + exam)



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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

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PERFORMANCE DATA CONT.*

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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
	F3H = High Reading, Ambient, Exam	High 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 = LED boards	30 = 3000K	4750	95	50
			35 = 3500K	5000	100	50
			40 = 4000K	5150	103	50
			50 = 5000K	5300	106	50

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PERFORMANCE DATA CONT.*

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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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THIS ONLY PERTAINS TO BIOS PERFORMANCE DATA*

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MODEL	FUNCTION	OUTPUT	LUMENS DELIVERED	EFFICACY (lm/W)	INPUT POWER (W)
bios ILLUMINATED AAOH14	Ambient	30 = 3000K	4611	87	53
		35 = 3500K	4823	91	53
		40 = 4000K	4892	94	53
bios ILLUMINATED AAOH22		30 = 3000K	2106	81	26
		35 = 3500K	2210	85	26
		40 = 4000K	2288	88	26
bios ILLUMINATED AAOH24		30 = 3000K	4770	90	53
		35 = 3500K	5035	95	53
		40 = 4000K	5141	97	53

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