

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

## PRODUCT FEATURES

- Intended for Patient Rooms, Skilled Nursing Facilities, Convalescent Care, Hospice and more
- Provides ambient, exam, reading, and night light illumination for the patient room environment
- 4" Depth minimizes interference with systems within ceiling plenum
- Optional inset doorframe with clear overlay lens provides flat wipe-down surface for easy cleaning, Optional IP65 certified per IEC60598 and CCEA approved
- Dimensional one-piece lens provides an architectural statement
- This product is Made in America and complies with the Buy American Act (BAA) and the Build America, Buy America Act (BABAA)



SPDH

## ORDERING INFORMATION

Example: SPDHR22-HC20/IC20-CA12-WHA-AERN-LW-30-40-35-50-90C-12-DMI-LV3



SPDH	R	/				
Series	Mounting R = Recessed (Grid/Flange)	Size 22 = 2x2 24 = 2x4	Housing HC20 = 20Ga. CRS Painted HA16 = 16Ga. Alum. Painted	Inset Frame IC20 = 20Ga. CRS Painted IA16 = 16Ga. Alum. Painted IAS16 = 16Ga. Sealed Alum Painted*	Frame Lens* blank = No Overlay Lens CA12 = .125 Clear Acrylic CP12 = .125 Clear Polycarbonate CP060 = .060 Clear Polycarbonate	Lens WHA = White Acrylic WHL = White Linen Pattern*
				*IAS16 is sealed with IP65 listing. Door secured with screws and a lanyard.	*Clear high reflective overlay provides flat wipe-down surface for easy cleaning (recommended for medical applications).	*Linen pattern is on the middle compartment. Edges will be White Acrylic unless otherwise specified. See page 2 for example

Functions*	Lumen Output*	Color Temp*	Exam Color Temp.*	Reading Color Temp.	Night Light Color Temp.*
AERN = Ambient, Exam, Reading, Night Light AER = Ambient, Exam, Reading AE = Ambient, Exam AR = Ambient, Reading  *Additional configurations available.	LW = Low HG = High CL = Custom Lumen Output**  *Subject to change. **Consult factory. Must be specified at time of quote. Must not exceed fixture maximum output.	30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K* TW1 = Tunable White 2700K to 5000K** TW2 = Tunable White 2700K to 6500K**  *Selected CCT will be the same for both ambient and exam combined functions. **Available for ambient function.	blank = No Exam 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K**  *Recommended to have same/similar color temp. as ambient. ** N/A with 90 CRI.	blank = No Reading 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K*  *N/A with 90 CRI	blank = No Night Light 30 = 3000K 35 = 3500K 40 = 4000K 50 = 5000K**  *Non-dimming unless otherwise specified. ** N/A with 90 CRI.

90C				
CRI 90C = 90 CRI	Voltage 12 = 120V 27 = 270V	Driver Type DMI = 0-10V Dimming with 1-100% range SD2 = Step Dim. Driver (50-100%)* SD3 = Step Dim. Driver (30-70-100%)*  Tunable White Driver*: TWD = 2-Channel 0-10V DALI8 DALI8 = 1-Channel Dali8  * Tunable White Driver requires choice of TW1 or TW2 in Color Temp column. *Only available with IAS16. Doorframe secured with screws and a lanyard. Click <a href="#">HERE</a> for specification. LV3 controls ambient and reading functions with dimming. Exam and Night Light are on separate voltage circuits.	Control LV3 = Dimming Low Voltage Controller**  **N/A with 5000K. Self tapping screw through latch.	Options TW(#) = Tunable White Drivers* FZ1 = Fuse (120V) FZ2 = Fuse (277V) EQ = Earthquake Clips IP65 = Optional IP65 Rating*** TH = Tamper-resistant Torx® head fasteners***  *Except IAS16 option; fastener secures lens frame. ***Only available with IAS16. Doorframe secured with screws and a lanyard.



**New Star Lighting**

2225 W Pershing Rd, Chicago, IL 60609  
 (773) 847-1400  
[www.newstarlighting.com](http://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

**CONSTRUCTION:** 20-Gauge formed cold rolled steel housing and frame with continuous seam welds. Optional 16-gauge aluminum inset doorframe, sealed with closed-cell silicone gaskets and roomside fasteners, firmly anchored to the housing with durable aircraft cable. Internal chambers separate functions for individual light control without light leaks.

**LENS:** High transmittance matte white acrylic lens for maximum diffusion. Optional clear overlay lens provides flat wipe-down surface for easy cleaning (recommended for medical applications).

**LED:** Provides ambient, exam, reading and night light illumination for the patient room environment. Available in four color temperatures 3000K, 3500K, 4000K and 5000K with maximum 3-step MacAdam variation allowance. Other color temperatures available, consult factory. Ambient section illuminates all compartments. Exam light levels work in conjunction with ambient function. Ambient and exam functions are recommended to have the same color temperature.

**DRIVER:** 120-277VAC, 50-60HZ. Each function is independently circuited for individual control. 0-10V Dimming with 1-100% range. Tunable White selection for both Ambient and Exam functions. Driver options:

### OPTIONAL TUNABLE WHITE DRIVERS:

**DALI8** – Dali Type\* (one DALI address)

**TWD** – Constant current, two channel 0-10V dimming with dim-to-dark capabilities; one channel for brightness, one channel for CCT.

**CONTROL:** The Low Voltage Control (LVC3) option controls ambient function with dimming, and reading is non-dimming (on/off). The Exam and Night Light functions are on separate line voltage circuits; the nightlight LED board has (4) settings that are field selectable. The exam is typically wired to a wall switch (by others) and is dimmable. Other configurations are available – consult factory. One low voltage controller per pair is recommended. Leads are factory labeled for field installation. Controls and any additional accessories by others.

**FASTENERS:** Stainless steel Philips flat head screws with captive cage nuts for the IAS16 option. Finish to match trim.

**FINISH:** White antimicrobial polyester powder coat finish following multistage iron phosphate pretreatment on all exposed roomside painted surfaces.

**INSTALLATION:** Recessed mounting accommodates Grid and Flange installations. Recessed fixtures will be supplied with adjustable swing arms that can be used for Flange applications or taped to the side for Grid applications. Recessed install compatible with 1-1/2" and 15/16" Grid systems. Mounting for custom ceilings available, consult factory.

**WARRANTY:** Five (5) year warranty period.

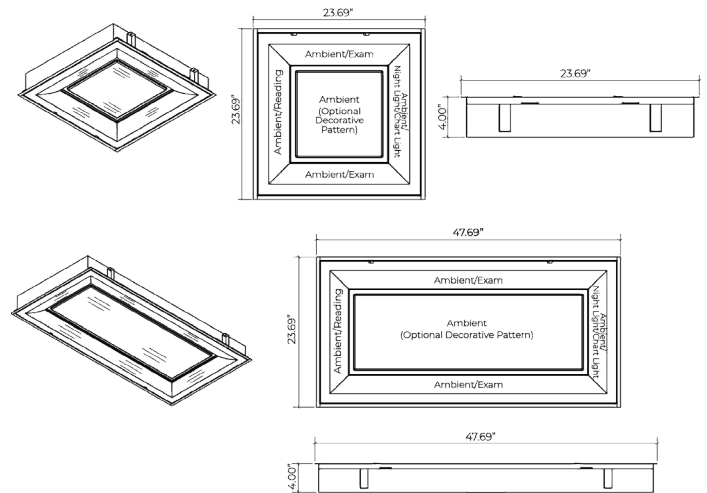
**LABEL:** Fixture is certified to UL standards by Intertek Testing Laboratory for Non-IC installations. Optional IP65 Rating per IEC60598. CCEA approved. This product was Made in America and complies with the Buy American Act requirements and the Build America, Buy America Act (BABAA).

## DIMENSIONAL DATA\*

\*Dimensions are subject to change without notice. Intended for non-IC installations. Thermal protector included and extends 2 inches from housing. Fixture weight varies and is dependent upon chosen specifications. Consult factory for additional information.

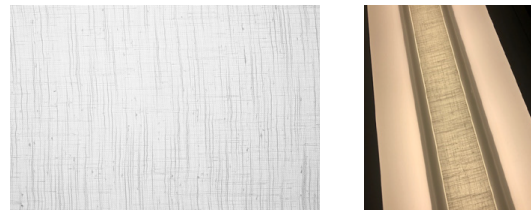
Average weight of the SPD 2x2 is 30lbs. SPD 2x4 is 50lbs.

SPDH 2x2 recommended ceiling cut-out: 22.88" x 22.88"  
SPDH 2x4 recommended ceiling cut-out: 22.88" x 46.88"



### AMBIENT DECORATIVE LENS

Lens is a white matte acrylic. Optional white linen pattern over middle ambient chamber or custom pattern provided by customer. Linen pattern shown below.



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## PERFORMANCE DATA\*

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

Consult factory for additional reading light levels. Note, ambient function illuminates all compartments including center section. Exam function to be used in conjunction with ambient function.

SERIES	OUTPUT	FUNCTION	LUMENS DELIVERED	EFFICACY (lm/w)	INPUT POWER (W)
SPD22	LW = Low	Ambient	4400	110	40
		Exam	8000	100	80
		Reading	900	75	12
		Night Light	750	75	10
	HG = High	Ambient	6600	110	60
		Exam	10800	100	108
		Reading	900	75	12
		Night Light	750	75	10
SPD24	LW = Low	Ambient	6900	115	60
		Exam	12000	100	120
		Reading	1875	75	25
		Night Light	600	75	8
	HG = High	Ambient	13800	115	120
		Exam	21500	100	215
		Reading	1875	75	25
		Night Light	1125	75	15

## CCT Multipliers

Multipliers for relative lumen values with other series color temperatures

3000K	3500K	4000K	5000K
0.96	0.99	1.00	1.00



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