

HIGH ABUSE LINEAR SERIES
\*PRELIMINARY CUTSHEET



PROJECT:
TYPE:
PRODUCT:
APPROVED BY:

PRODUCT FEATURES

- Intended for Public Areas, Corridors, Stairways, Underpasses, Parking Garages, Restrooms, Lobbies, Schools, and more
- Available in 2' - 8' lengths
- Up to 1200 lumens/ft.
- One-piece doorframe with continuous lens retention and tamper-resistant fasteners
- Certified to UL standards by Intertek Testing Laboratory. IP65 rated per IEC60598. NSF2/Non-Food Zone Listed, IK10 Listed per IEC60068-2-75
- This product is Made in America and complies with the Buy American Act requirements



HAL Series

ORDERING INFORMATION

Example: HAL48-FL-500-90-35-AM-D-SYM-UN-DM1



Series	Nominal Length*	Ceiling Configuration	Lumen Output*	CRI	Color Temp.	Finish
	24 = 2'	TB9 = 9/16" Lay-In Grid	500 = 500LM/FT-Min	80 = 80 CRI	30 = 3000K	AM = Antimicrobial White*
	36 = 3'	TB15 = 15/16" Lay-In Grid	1200 = 1200LM/FT-Max	90 = 90 CRI	35 = 3500K	C = Custom**
	48 = 4'	TG9 = 9/16" Tegular Grid			40 = 4000K	
	72 = 6'	TG15 = 15/16" Tegular Grid			TW1 = Tunable White	*Standard finish.
	96 = 8'	FL = Flange			2700K to 5000K*	**Consult factory for NSF.
		NFL = No Flange			TW2 = Tunable White	
		ST = Screw Slot			27000 to 6500K*	
		TM = Trimless Mud-In				
		for 5/8" Drywall				
			*Outputs between listed min and max are available.			
					*Must select TW Driver.	
Outer Lens	Inner Lens	Voltage	Driver Type	Options		
D = .250 Clear Poly.	SYM = Symmetrical	12 = 120V	DM1 = 0-10V Dimming to 1%	B(#) = Battery Pack*		
	ASY = Asymmetrical	27 = 270V		GTD(1) = Generator transfer device*		
		34 = 347V*	Tunable White Driver*:	+E(1) = Emergency section		
		UN = Universal (120V-277V)	DALI8 = 1-Channel	LV3 = Independent Load Dimming LVC**		
			TWO = 2-Channel 0-10V	LVD = Multi-Load Dimming LVC**		
		*347V only available with DM1 Drivers.				
			*Tunable White Driver requires choice of TW1 or TW2 in Color Temp. column.			
				*Available for fixture lengths of 4' or greater		
				**Click here for more information. Provides control of lighting from a pillow speaker, bedside rail or wall switch. Leads are factory labeled.		

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### SPECIFICATIONS

**HOUSING:** Extruded aluminum construction with sheet metal endcaps. Closed cell neoprene pad in doorframe.

**LENS:** Combination of acrylic and/or polycarbonate prismatic inner lens, clear outer lens, maximum thickness 0.25" for durability.

**DOORFRAME:** Die-formed aluminum doorframe, with antimicrobial white powder-coat finish, secured with tamper-resistant Torx® fasteners. Safety aircraft cable also secures doorframe to housing for easy maintenance.

**LED:** Available in three color temperatures 3000K, 3500K, and 4000K with maximum 3-step MacAdam variation allowance. Tunable White also available, from 2700K – 5000K or 2700K–6500K. Minimum 50,000 hours with 85% lumen maintenance in a 25°C ambient temperature, compliant with IES LM-80 testing standards.

**ELECTRICAL:** Standard 120–277VAC 50/60Hz or 347VAC 60Hz electrical input with serviceable constant-current drivers (<10%THD, >0.90 PF). 0–10V Dimming with 1–100% range.

#### TUNABLE DRIVER OPTIONS:

**DALI8** – DALI Type 8 (One DALI Address)

**TWO** – Two channel 0–10V dimming: one channel for brightness, one channel for CCT

**FINISH:** Anti-microbial white finish following multi-stage iron phosphate pre-treatment on all exposed room-side surfaces. Custom finishes also available.

**INSTALLATION:** Recessed Grid, Screw Slot Grid, Drywall Flange, Drywall Flangeless and Mud-In Flange options.

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

**LISTINGS:** Fixture is certified to UL standards by Intertek Testing Laboratory. IP65 Rating per IEC60598. Certified for NSF2 Splash Zone/ Non-Food Zones. Standard CCEA compliance.



**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.

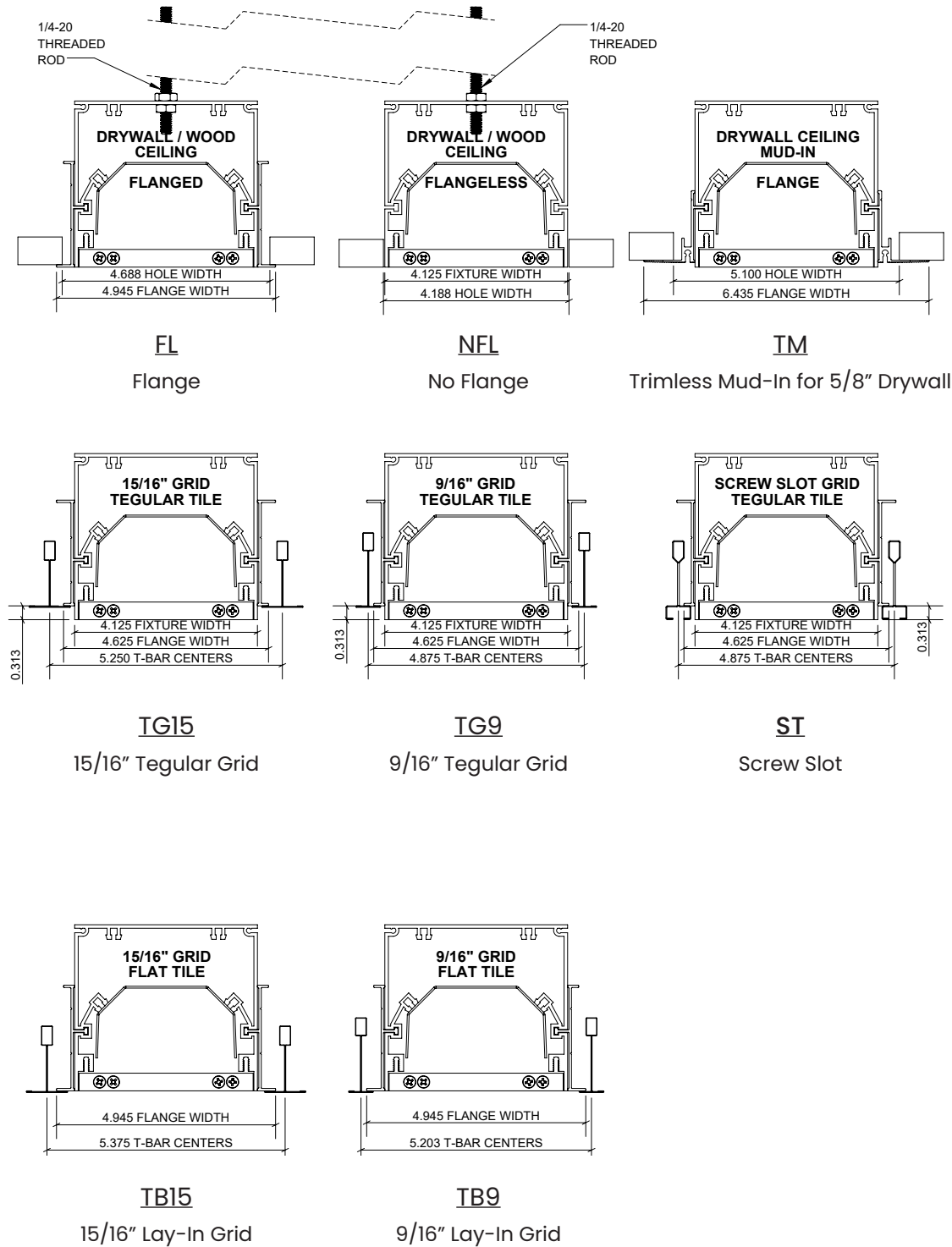
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## DIMENSIONAL DATA



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## PERFORMANCE DATA

Model	Light Distribution	CCT	Lumens per Foot	Efficacy (lm/W)	Input Power (W)
HAL24	Symmetric	4000K	500	95	11
	Symmetric	4000K	1181	95	25
	Asymmetric	3000K	500	85	12
	Asymmetric	3000K	1067	85	25
HAL36	Symmetric	4000K	500	95	16
	Symmetric	4000K	1181	95	37
	Asymmetric	3000K	500	85	18
	Asymmetric	3000K	1067	85	38
HAL48	Symmetric	4000K	500	95	21
	Symmetric	4000K	1181	95	50
	Asymmetric	3000K	500	85	23
	Asymmetric	3000K	1067	85	50
HAL72	Symmetric	4000K	500	95	32
	Symmetric	4000K	1181	95	75
	Asymmetric	3000K	500	85	35
	Asymmetric	3000K	1067	85	75
HAL96	Symmetric	4000K	500	95	42
	Symmetric	4000K	1181	95	99
	Asymmetric	3000K	500	85	47
	Asymmetric	3000K	1067	85	100



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