HS4DR LED
4.5" MIL-Spec Surgical Downlight – Round

Williams

CATALOG #: _____

TYPE: _____

PROJECT: _____

Dimensions:
L10 - L30: 5-3/4"
L40: 6-1/2"
ø4-1/4"
1/2" min
2-1/4" max
15"
15-5/8"

FEATURES

TrimLock®

BUY AMERICAN ACT COMPLIANT

- Innovative TrimLock reflector retention system ensures trim remains flush with ceiling plane
- Complies with surgical suite specification MIL-STD-461G conducted emission regulations
- Designed to meet the demanding requirements of controlled environments
- Smooth surface trim and lens materials simplify cleaning and maintenance
- NSF-approved gasketing meets all required testing criteria for ISO 5, Class 100 certification
- Anti-microbial white finish is standard

SPECIFICATIONS

- **HOUSING** – Die-cast aluminum trim housing with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Swing-out mounting arms field adjust for ceiling thickness from 1/2" – 2-1/4".
- **TRIM** – Die-cast aluminum frame with micro-prismatic, acrylic lens.
- **DIE-CAST FINISH** – Textured anti-microbial matte white or black polyester TGIC powder coat bonded to phosphate-free, multi-stage pretreated metal.
- **ELECTRICAL** – High-performance Class 2 C.O.B. LED array. Modular quick-connect plug for easy field-connection of LED light assembly to driver. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- **MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan. Minimum 24" O.C. marked spacing required for L30 and L40 lumen packages. 14" minimum plenum height required for room-side access of driver/junction box.
- **LISTINGS** –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for wet locations under covered ceiling. LED light assembly conforms to UL 2108 for remote installation.
  - IP65 rated
  - ISO 5, Class 100 rated
  - NSF/ANSI 2
  - Complies with MIL-STD-461G. Consult factory for remote driver installation.
  - Complies with ASTM-E283 when specified with ATH option.
  - RoHS compliant.
  - Complies with the Buy American Act and other federal regulations. Request certification at hew.com/baa.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

IP65 | **ISO 5 Class 100** | **MIL STD 461G** | **NSF COMPONENT**

ORDERING EXAMPLE: HS4DR - TL - L20/835 - OPTIONS - DIM - UNV - LW - OF - WH - TRIM OPTIONS - N - F1
— HOUSING — | — TRIM — | MOUNT.

HOUSING

SERIES	LUMENS [1]		CRI		CCT		OPTIONS		CONTROL		VOLTAGE	
HS4DR - TL	L10	1,000lm	8	80	27	2700K	ATH	Airtight construction	DIM	Dimming driver, 0-10V	UNV	120-277V
TrimLock	L15	1,500lm	9	90 [2]	30	3000K	F	Fuse	DIM1	1% Dimming driver, 0-10V		
	L20	2,000lm			35	3500K	EM/7W	7-watt emergency battery [3]				
	L30	3,000lm			40	4000K	EM/10W	10-watt emergency battery [4]				
	L40	4,000lm			50	5000K						

TRIM

TRIM TYPE		DISTRIBUTION [5]		FLANGE TYPE		REFLECTOR FINISH		TRIM OPTIONS	
L	Flush lens	W	Wide 50° Flush 50° Regressed	OF	1/2" standard flange	WH	White texture powder coat	AD	Diffuse acrylic lens [9]
R	Regressed lens	M	Medium [6] 35° Flush 30° Regressed			BL	Black texture powder coat	PD	Diffuse 1/8" polycarbonate lens [10]
		N	Narrow [7] 25° Flush 25° Regressed			MB	Black texture splay with white flange [8]		

MOUNTING

MOUNTING TYPE [11]		MOUNTING HARDWARE [12]	
N	Open pan for new construction	F1	Integral 2-position fixed pan bracket, universal bar hanger included
		BA1	Adjustable butterfly pan bracket, bar hanger not included
		CA1	Adjustable caterpillar pan bracket, universal bar hanger included

NOTES

1. Lumen output based on L trim type, W distribution and WH finish, 3500K/80CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. Extended lead times may apply. Consult factory for availability.
3. Not IP65 rated. Specify CEC in the option code when California Energy Commission regulations are required.
4. Not IP65 rated. Specify CEC in the option code when California Energy Commission regulations are required.
5. Beam angle based on WH reflector finish.
6. L30 lumen package max when specified with medium or narrow distribution.
7. L30 lumen package max when specified with medium or narrow distribution.
8. R Trim Type only.
9. W distribution only. Includes smooth clear polycarbonate underlay.
10. W distribution only. Includes smooth clear polycarbonate underlay.
11. Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
12. Additional mounting hardware options available. See page 4 for MOUNTING HARDWARE DETAILS.

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4.5" MIL-Spec Surgical Downlight – Round

FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)
L10	W	14.5	992	68	972	67
L10	M	14.5	1317	91	1319	91
L10	N	14.5	1345	93	1299	90
L15	W	22.1	1472	67	1441	65
L15	M	22.1	1953	88	1955	86
L15	N	22.1	1995	90	1927	87
L20	W	26.9	1967	73	1927	72
L20	M	26.9	2610	97	2614	97
L20	N	26.9	2667	99	2576	96
L30	W	41.4	2813	68	2755	67
L30	M	41.4	3732	90	3738	90
L30	N	41.4	3813	92	3683	89
L40	W	55.4	3889	70	3810	69
L40	M	—	—	—	—	—
L40	N	—	—	—	—	—

MULTIPLIER TABLES

COLOR TEMPERATURE		
	CCT	CONVERSION FACTOR
80 CRI	2700K	0.92
80 CRI	3000K	0.98
80 CRI	3500K	1.00
80 CRI	4000K	1.01
80 CRI	5000K	1.02
90 CRI	2700K	0.76
90 CRI	3000K	0.79
90 CRI	3500K	0.82
90 CRI	4000K	0.84
90 CRI	5000K	0.88

TRIM	
CATALOG NUMBER	CONVERSION FACTOR
AD	0.77
PD	0.77

REGRESSED TRIM FINISH	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
BL	0.79

- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25ºC ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3500K, 80 CRI, actual lumens may vary +/-5%
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
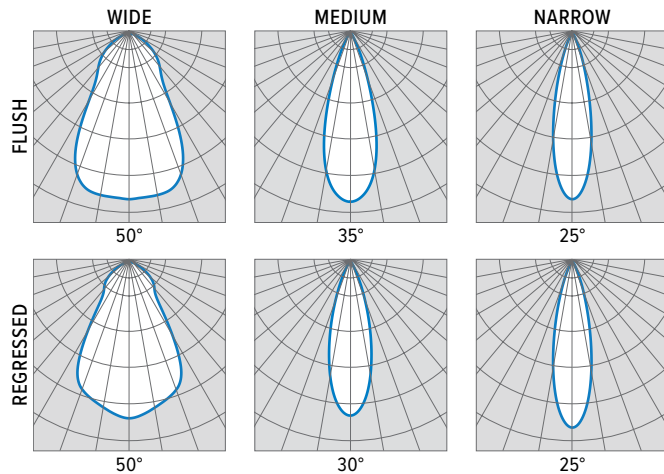- Use multiplier tables to calculate additional options.

PHOTOMETRY

HS4DR-TL-L40/835-DIM-UNV-LW-OF-WH Total Luminaire Output: 3889 lumens; 55.4 Watts | Efficacy: 70 lm/W | 80 CRI; 3500K CCT
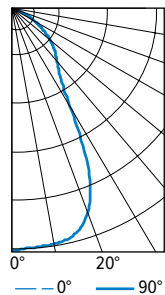
VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	2732	
5	2713	259
15	2661	745
25	2076	921
35	967	628
45	695	535
55	463	414
65	250	250
75	106	114
85	19	24
90	1	

ZONE	LUMENS	% FIXTURE
0 - 30	1925	50
0 - 40	2552	66
0 - 60	3501	90
0 - 90	3889	100
0 - 180	3889	100

FLUSH

WIDE 50°

MEDIUM 35°

NARROW 25°

REGRESSED

WIDE 50°

MEDIUM 30°

NARROW 25°

TRIMLOCK DETAILS

TWIST

PULL

RELEASE

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TRIM TYPE DETAILS

FLUSH

ø4-1/4" 1/8"

REGRESSED

1-1/4"

ø4-3/8" 1/8"
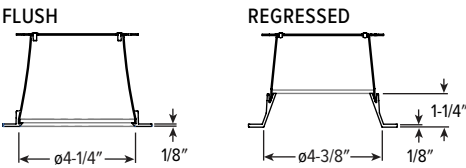
FLANGE TYPE DETAILS

ø5-1/2"

Ceiling Cutout: ø5"
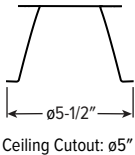
REFLECTOR FINISH DETAILS

WH
White

BL
Black

MOUNTING TYPE DETAILS

4-1/4"

ø5"

6"

12"

15"

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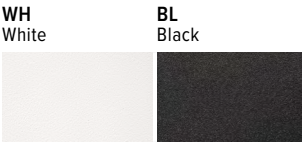
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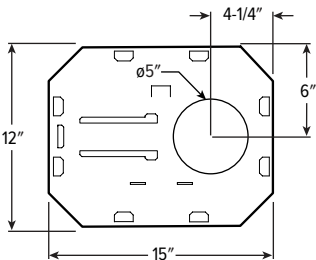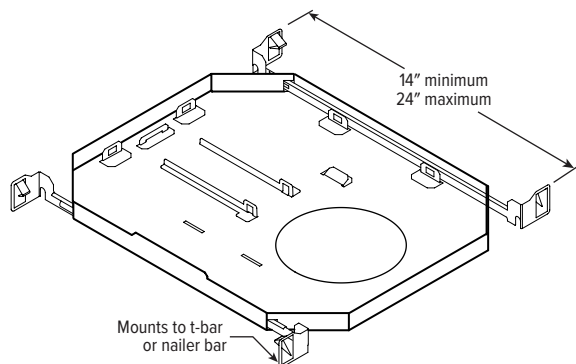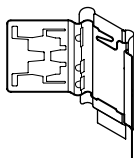
HS4DR LED
4.5″ MIL-Spec Surgical Downlight – Round

MOUNTING HARDWARE DETAILS

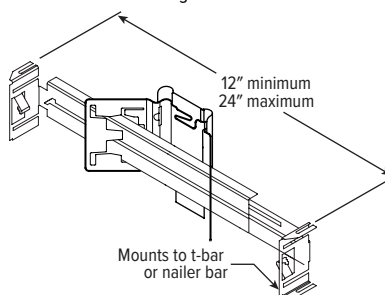**F1** Integral 2-position fixed pan bracket, universal bar hanger included

14″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

BA1 Adjustable butterfly pan bracket, bar hanger not included
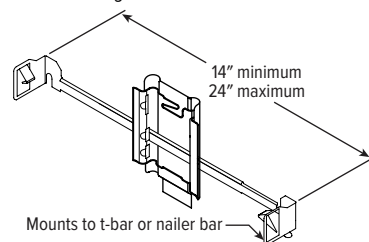
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included

12″ minimum
24″ maximum

Mounts to t-bar
or nailer bar

CA1 Adjustable caterpillar pan bracket, universal bar hanger included

14″ minimum
24″ maximum

Mounts to t-bar or nailer bar

CA2 Adjustable caterpillar pan bracket, t-bar hanger included

11″ minimum
26″ maximum

Mounts to t-bar

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