HS4DR LED
4.5″ MIL-Spec Surgical Downlight – Round

Williams

L10 - L30: 5-3/4″
L40: 6-1/2″

ø4-1/4″

1/2″ min
2-1/4″ max

15″

15-5/8″

CATALOG #: _____

TYPE: _____

PROJECT: _____

BUY AMERICAN ACT COMPLIANT · **IP65 Rated** · **ISO 5 Class 100** · **MIL STD 461G** · **NSF COMPONENT** · **WET/CC**

FEATURES

TrimLock®

- 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. Power factor may be lower than typical due to MIL-SPEC requirements, see fixture performance data.
- **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.

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	30	3000K	F	Fuse	DIM1	1% Dimming driver, 0-10V		
	L20	2,000lm			35	3500K	EM/7W	7-watt emergency battery [2]				
	L30	3,000lm			40	4000K	EM/10W	10-watt emergency battery [3]				
	L40	4,000lm			50	5000K						

TRIM

TRIM TYPE	DISTRIBUTION [4]		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 [8]
R Regressed lens	M	Medium[5] 35° Flush 30° Regressed		BL	Black texture powder coat	PD	Diffuse 1/8″ polycarbonate lens [9]
	N	Narrow[6] 25° Flush 25° Regressed		MB	Black texture splay with white flange [7]		

MOUNTING

MOUNTING TYPE [10]

N Open pan for new construction

MOUNTING HARDWARE [11]

- 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 Reflector Finish, 80 CRI/3500K CCT. Actual performance may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
2. Not IP65 rated. Specify CEC in the option code when California Energy Commission regulations are required.
3. Not IP65 rated. Specify CEC in the option code when California Energy Commission regulations are required.
4. Beam angle based on WH Reflector Finish.
5. L30 lumen package max when specified with Medium or Narrow Distribution.
6. L30 lumen package max when specified with Medium or Narrow Distribution.
7. R Trim Type only.
8. W Distribution only. Includes smooth clear polycarbonate underlay.
9. W Distribution only. Includes smooth clear polycarbonate underlay.
10. Mounting hardware required, ordered separately, see MOUNTING HARDWARE ordering info. See page 3 for MOUNTING TYPE DETAILS.
11. Additional Mounting Hardware options available. See page 3 for MOUNTING HARDWARE DETAILS.

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FIXTURE PERFORMANCE DATA

	DISTRIBUTION	WATTAGE	FLUSH LENS TRIM TYPE		REGRESSED LENS TRIM TYPE		TOTAL AMP DRAW [1]	
			DELIVERED LUMENS	EFFICACY (lm/W)	DELIVERED LUMENS	EFFICACY (lm/W)	120V	277V
L10	W	14.5	992	68	972	67		
	M	14.5	1317	91	1319	91		
	N	14.5	1345	93	1299	90		
L15	W	22.1	1472	67	1441	65		
	M	22.1	1953	88	1955	86		
	N	22.1	1995	90	1927	87		
L20	W	26.9	1967	73	1927	72	Consult Factory	
	M	26.9	2610	97	2614	97		
	N	26.9	2667	99	2576	96		
L30	W	41.4	2813	68	2755	67		
	M	41.4	3732	90	3738	90		
	N	41.4	3813	92	3683	89		
L40	W	55.4	3889	70	3810	69		
	M	—	—	—	—	—		
	N	—	—	—	—	—		

MULTIPLIER TABLES

COLOR TEMPERATURE

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

TRIM OPTIONS

CATALOG NUMBER	CONVERSION FACTOR
AD	0.77
PD	0.77

REGRESSED TRIM FINISH

CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
BL	0.79

1 Power factor may be lower than typical due to MIL-SPEC requirements. Consult factory for actual fixture current.
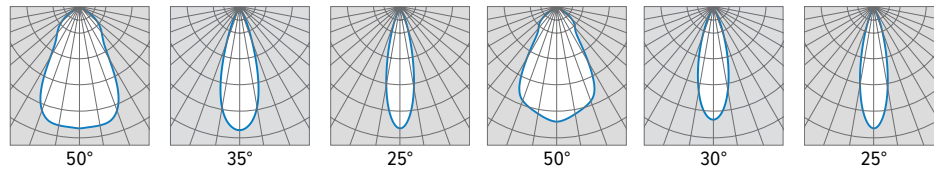
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/3500K CCT, average wattage for 120V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

PHOTOMETRY

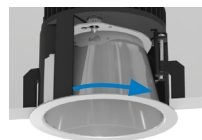**HS4DR-TL-L40/835-DIM-UNV-LW-OF-WH** Total Luminaire Output: 3889 lumens; 55.4 Watts | Efficacy: 70 lm/W | 80 CRI; 3500K CCT
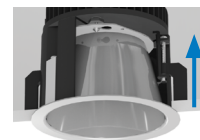

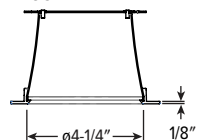| VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
0	2732	
5	2713	259
15	2661	745
25	2076	921
35	967	628
45	695	535
55	463	414
65	250	250
75	106	114
85	19	24
90	1	

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

FLUSH

50°

35°

25°

REGRESSED

50°

30°

25°
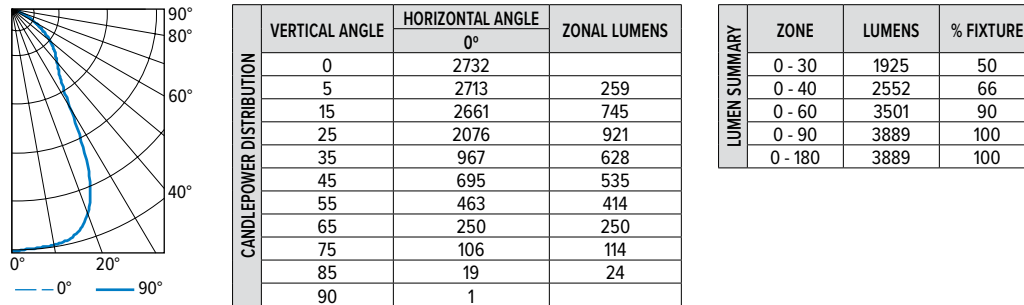
TRIMLOCK DETAILS

TWIST

PULL

RELEASE

TRIM TYPE DETAILS

FLUSH

ø4-1/4″   1/8″

REGRESSED

ø4-3/8″   1/8″   1-1/4″

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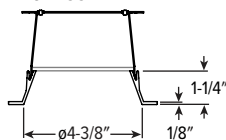
HS4DR LED
4.5″ MIL-Spec Surgical Downlight – Round

FLANGE TYPE DETAILS

ø5-1/2″

Ceiling Cutout: ø5″
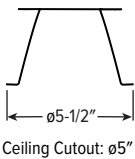
REFLECTOR FINISH DETAILS

WH
White
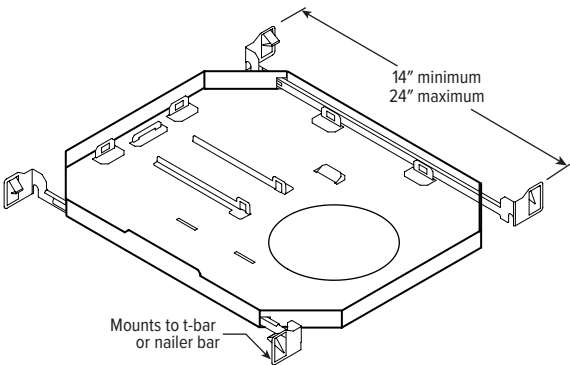
BL
Black

MOUNTING TYPE DETAILS

4-1/4″

ø5″

6″

12″

15″
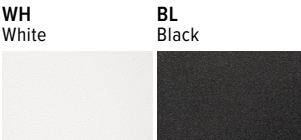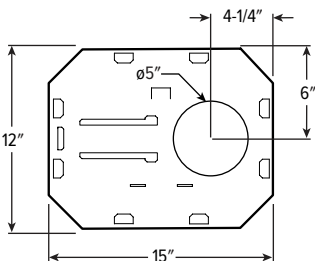
MOUNTING HARDWARE DETAILS

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

14″ minimum
24″ maximum

Mounts to t-bar
or nailer bar
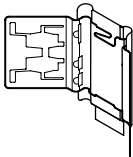
BA1 Adjustable butterfly pan bracket, bar hanger not included
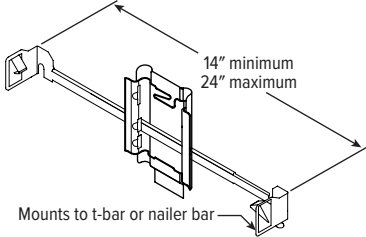
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included

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
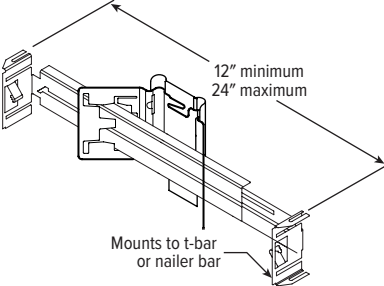
CA2 Adjustable caterpillar pan bracket, t-bar hanger included

11″ minimum
26″ maximum

Mounts to t-bar

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