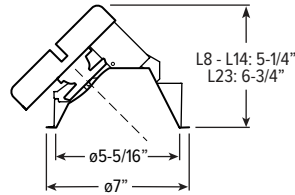


6AR dim to **WARM** 6" Adjustable Downlight – Round



CATALOG #: _____

TYPE: _____

PROJECT: _____

NEW CONSTRUCTION AND REMODEL

FEATURES

- Dim to warm from 1800K to 3000K CCT, minimum 95 CRI
- Adjustable aim with 0° - 45° tilt and 360° rotation
- Beam angles ranging from 25° narrow to 55° wide for tailored performance
- Etched degree markers and directional indicator make it simple to fine-tune the illumination angle
- Spring clip retention system eliminates trim sag
- Choice of open reflector or die-cast lensed trims to complement interior style
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Fully room-side accessible

SPECIFICATIONS

- **HOUSING** – Die-cast aluminum spun and stamped articulating mechanism with forged aluminum heat sink. Galvanized steel splice compartment with driver mounting plate/enclosure. Mounting clips allow for ceiling thickness from 1/2" - 7/8" (consult factory for additional ceiling thicknesses).
- **OPEN REFLECTOR** – Low-iridescent anodized aluminum. Clear semi-specular finish standard.
- **LENSED TRIM** – Die-cast aluminum frame with micro-prismatic, tempered glass lens.
- **ELECTRICAL** – Five color, mid-power LED modules. On board thermal and optical feedback ensure color consistency of <2 step MacAdam ellipse (SDCM). In-line spectral capture and storage results in consistent CRI and CCT across all arrays. Reported L70>55,000 hours. Reported L90>55,000 hours. Estimated L70 = 200,000 hours.
- **MOUNTING** – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware.
- **LISTINGS** –
 - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for damp locations. LED light assembly conforms to UL 2108 for remote installation.
 - IC-rated for direct contact with insulation when specified with I Mounting Type.
 - City of Chicago Environmental Air approved when specified with CP option.
 - Complies with ASTM-E283 when specified with ATH option.
 - RoHS compliant.
- **WARRANTY** – 5-year limited warranty, see hew.com/warranty.

ORDERING EXAMPLE:⁽¹⁾ **6AR - L23/9DW - OPTIONS - DIM - UNV - OW - OF - CS - TRIM OPTIONS - N - F1**

HOUSING

SERIES	LUMENS ⁽²⁾	COLOR	OPTIONS	CONTROL	VOLTAGE
6AR	L8 800lm	9DW Dim to warm (95 CRI, 1800K – 3000K)	EM/10W 10-watt emergency battery ⁽³⁾	DIM Dimming driver (0-10V signal to control dimming and CCT)	UNV 120-277V 347 347V ⁽⁷⁾
	L14 1,400lm		ATH Airtight construction ⁽⁴⁾		
	L23 2,300lm		CP Chicago plenum (CCEA) ⁽⁵⁾		
			F Fuse kit	LUT Lutron Ecosystem enabled	
			SDT Stepdown transformer ⁽⁶⁾		

TRIM

TRIM TYPE	DISTRIBUTION ⁽⁸⁾	FLANGE TYPE	REFLECTOR FINISH	TRIM OPTIONS
O Open reflector	W Wide	OF 1/2" standard flange	CS Clear semi-specular anodize ⁽¹¹⁾	MWT Textured white trim flange ⁽¹²⁾
L Flush lens	55° Open	SF 1/4" mud-in flange ⁽¹⁰⁾	WH White texture powder coat	AD Diffuse acrylic lens ⁽¹³⁾
A Angled lens	55° Flush 50° Angled		BL Black texture powder coat	
	M Medium			
	35° Open			
	35° Flush			
	35° Angled			
	N Narrow ⁽⁹⁾			
	25° Flush			
	30° Angled			

MOUNTING

MOUNTING TYPE⁽¹⁴⁾

- N Open pan for new construction
- I IC-rated enclosure for new construction⁽¹⁶⁾
- R Remodel kit⁽¹⁷⁾

MOUNTING HARDWARE⁽¹⁵⁾

- F1 2-Position fixed pan bracket, universal bar hanger included
- F2 2-Position fixed pan bracket, t-bar bar hanger included
- BA1 Adjustable butterfly pan bracket, bar hanger not included⁽¹⁸⁾
- BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included⁽¹⁹⁾
- CA1 Adjustable caterpillar pan bracket, universal bar hanger included
- CA2 Adjustable caterpillar pan bracket, t-bar hanger included

NOTES

- Housing, trim, and mounting ship separately.
- Lumen output based on full light output, O trim type, W distribution and CS finish, 3000K/95CRI. Actual lumens may vary +/-5%, see page 2 for FIXTURE PERFORMANCE DATA.
- N Mounting Type only.
- I Mounting Type required.
- I Mounting Type required.
- May be required for 347V, see product builder at hew.com.
- Not available with EM batteries.
- Beam angle based on CS or WH reflector finish.
- L and A Trim Types only.
- For use with mud-in plaster construction only, supplied with mud flange installation kit, see page 3 for FLANGE TYPE DETAILS, not available with CP or ATH option.

- O Trim Type only.
- O Trim Type and OF Flange Type only. Not available with WH Reflector Finish.
- L and A Trim Types only. Wide distribution only.
- Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
- Specify for N and I Mounting Types only, see page 4 for MOUNTING HARDWARE DETAILS.
- L14 lumen package max.
- Also used in new construction sheetrock ceilings.
- N Mounting Type only.
- N Mounting Type only.



6AR dim to WARM 6" Adjustable Downlight – Round

FIXTURE PERFORMANCE DATA

OPEN REFLECTOR TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L8	W	768	3000K	1800K	14.0	54.9
	M	800			14.0	57.1
L14	W	1347			23.4	57.6
	M	1402			23.4	60.0
L23	W	2206			37.7	58.6
	M	2296			37.7	60.9

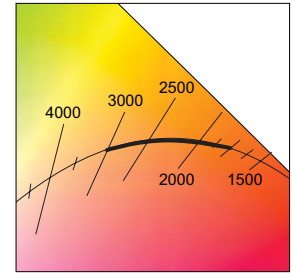
FLUSH LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L8	W	694	3000K	1800K	14.0	49.6
	M	744			14.0	53.1
	N	738			14.0	52.7
L14	W	1216			23.4	52.0
	M	1304			23.4	55.8
	N	1294			23.4	55.4
L23	W	1991	37.7	52.9		
	M	2135	37.7	56.7		
	N	2119	37.7	56.3		

ANGLED LENS TRIM TYPE

LED PACKAGE	DISTRIBUTION	DELIVERED LUMENS	CCT AT 100% (FULL OUTPUT)	CCT AT 1% (FULL DIM)	WATTAGE	EFFICACY (lm/W)
L8	W	578	3000K	1800K	14.0	41.3
	M	689			14.0	49.2
	N	703			14.0	50.2
L14	W	1013			23.4	43.3
	M	1208			23.4	51.7
	N	1233			23.4	52.8
L23	W	1659	37.7	44.0		
	M	1978	37.7	52.5		
	N	2019	37.7	53.6		

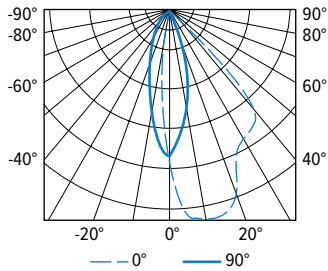
OPEN REFLECTOR FINISH		
CATALOG NUMBER	REFLECTOR FINISH	CONVERSION FACTOR
CS	Clear semi-specular	1.00
WH	White, textured	0.89
BL	Black, textured	0.79



- Photometrics tested in accordance with IESNA LM-79. Results shown are based on 25°C ambient temperature.
- Wattage shown is based on 120V input.
- Results based on 3000K, 95 CRI, full output, 0° tilt, actual lumens may vary +/-5%
- Use multiplier tables to calculate additional options.

PHOTOMETRY

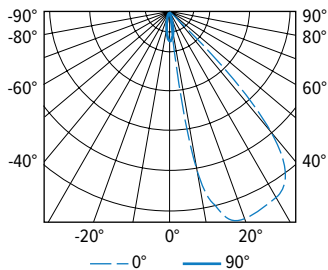
6AR-L23/9DW-DIM-UNV-OW-OF-CS (25° tilt) Total Luminaire Output: 2192 lumens; 37.7 Watts | Efficacy: 58.1 lm/W | 95.0 CRI; 3000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	2897	2897	2897	2897	2897	2897
5	4047	3567	2566	1787	1442	241
15	4237	3163	1469	492	345	522
25	3246	2828	602	136	102	607
35	2882	2122	121	29	22	559
45	1885	236	12	7	7	251
55	22	2	0	0	2	13
65	0	0	0	0	0	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1928	88
	0 - 60	2192	100
	0 - 90	2192	100
	0 - 180	2192	100

6AR-L23/9DW-DIM-UNV-OM-OF-CS (25° tilt) Total Luminaire Output: 2170 lumens; 37.7 Watts | Efficacy: 57.6 lm/W | 95.0 CRI; 3000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	974	974	974	974	974	974
5	2363	1621	824	485	395	116
15	6873	2660	411	175	148	476
25	6972	1970	172	73	59	726
35	6395	719	66	14	9	195
45	1360	161	6	0	0	12
55	40	0	0	0	0	0
65	0	0	0	0	0	0
75	0	0	0	0	0	0
85	0	0	0	0	0	0
90	0	0	0	0	0	0

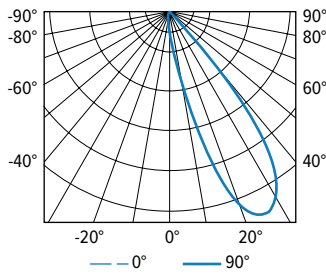
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1963	91
	0 - 60	2170	100
	0 - 90	2170	100
	0 - 180	2170	100



6AR dim to WARM

6" Adjustable Downlight – Round

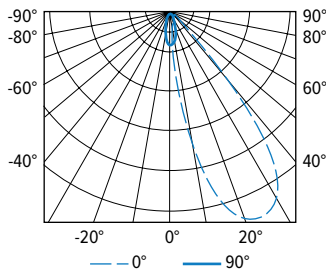
6AR-L23/9DW-DIM-UNV-AN-OF-CS (25° tilt) Total Luminaire Output: 2113 lumens; 37.7 Watts | Efficacy: 56.0 lm/W | 95.0 CRI; 3000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	658	658	658	658	658	
5	1640	1201	573	295	247	80
15	6090	2021	280	101	88	392
25	9549	1647	117	57	52	734
35	6734	667	57	37	34	609
45	1969	162	30	18	20	238
55	288	30	12	10	12	51
65	24	6	2	1	3	7
75	3	0	0	0	0	1
85	0	0	0	0	0	0
90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1815	86
	0 - 60	2105	99
	0 - 90	2113	100
	0 - 180	2113	100

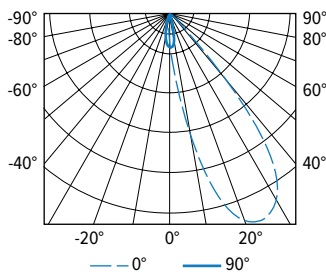
6AR-L23/9DW-DIM-UNV-LM-OF-WH (25° tilt) Total Luminaire Output: 2086 lumens; 37.7 Watts | Efficacy: 55.3 lm/W | 95.0 CRI; 3000K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	935	935	935	935	935	
5	2440	1761	872	515	393	114
15	5538	2736	486	193	159	437
25	6388	2160	227	109	100	661
35	4580	941	108	73	79	534
45	1324	247	54	62	73	219
55	271	64	36	50	62	75
65	59	24	21	32	42	33
75	20	10	8	13	21	13
85	0	0	0	0	0	1
90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1745	84
	0 - 60	2039	98
	0 - 90	2086	100
	0 - 180	2086	100

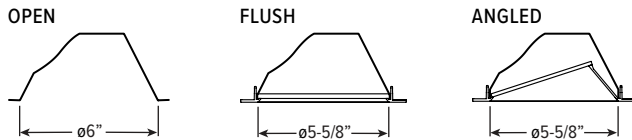
6AR-L23/9DW-DIM-UNV-AM-OF-WH (25° tilt) Total Luminaire Output: 1980 lumens; 37.7 Watts | Efficacy: 52.5 lm/W | 95.0 CRI; 3000K CCT



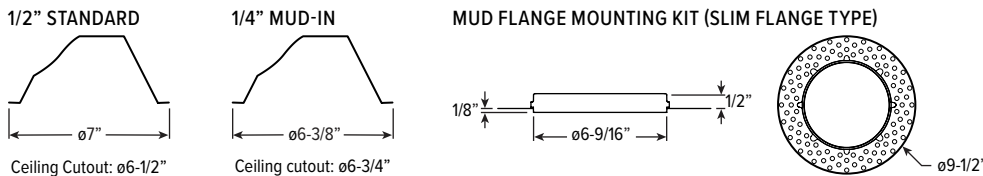
VERTICAL ANGLE	HORIZONTAL ANGLE					ZONAL LUMENS
	0°	45°	90°	135°	180°	
0	913	913	913	913	913	
5	2042	1540	824	490	395	104
15	5265	2514	451	170	129	408
25	6313	2021	195	77	62	640
35	4998	851	82	40	40	547
45	1510	220	37	28	33	225
55	149	31	19	20	23	43
65	16	8	8	11	13	11
75	6	1	0	1	3	2
85	0	0	0	0	0	0
90	0	0	0	0	0	0

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	1700	86
	0 - 60	1968	99
	0 - 90	1980	100
	0 - 180	1980	100

TRIM TYPE DETAILS



FLANGE TYPE DETAILS



6AR dim to WARM

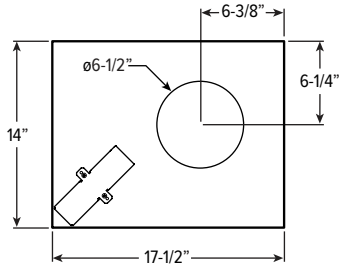
6" Adjustable Downlight – Round

REFLECTOR FINISH DETAILS

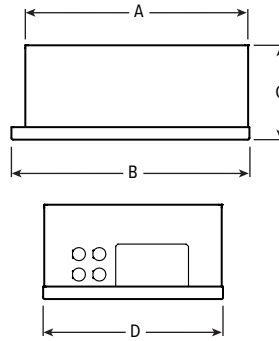


MOUNTING TYPE DETAILS

NEW CONSTRUCTION

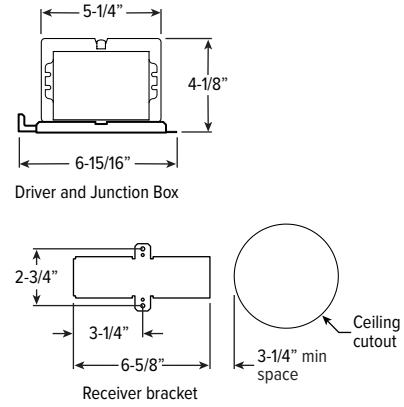


IC-RATED



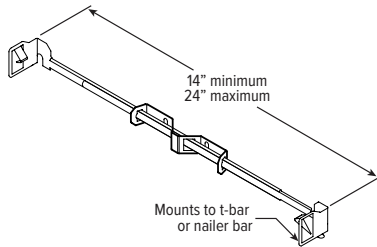
LUMENS	LENGTH			
	A	B	C	D
L8	15-3/16"	16"	6-3/8"	12-1/8"
L14	16-5/8"	17-1/2"	7-7/8"	14"

REMODEL

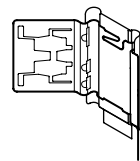


MOUNTING HARDWARE DETAILS

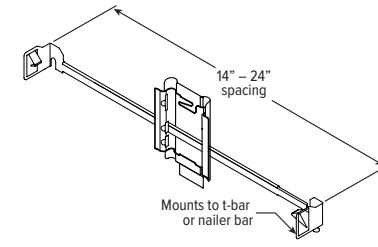
F1 2-Position fixed pan bracket, universal bar hanger included



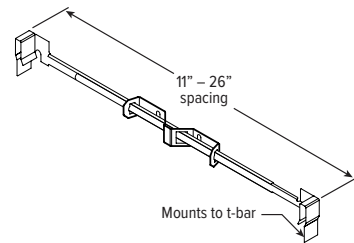
BA1 Adjustable butterfly pan bracket, bar hanger not included



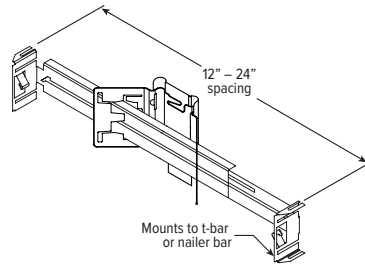
CA1 Adjustable caterpillar pan bracket, universal bar hanger included



F2 2-Position fixed pan bracket, t-bar bar hanger included



BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included



CA2 Adjustable caterpillar pan bracket, t-bar hanger included

