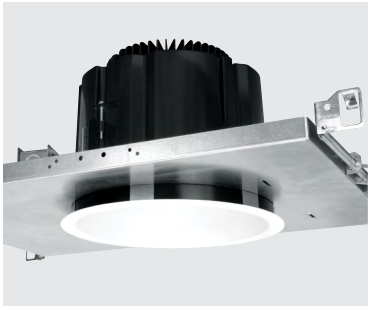
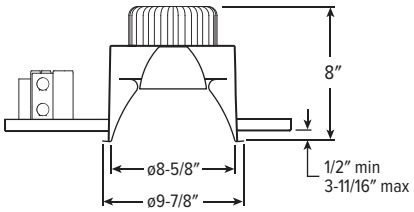
8DR LED
8″ Downlight – Round



NEW CONSTRUCTION AND REMODEL



L20 – L40 Lumens shown

CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | Low UGR | ASTM-E283 | WET/CC | TW

ORDERING EXAMPLE: 8DR - L60/835 - OPTIONS - CONTROL/DIM - 120 - OW - WH - TRIM OPTIONS - N - BA1
(HOUSING: 8DR - L60/835 - OPTIONS - CONTROL/DIM - 120 | TRIM: OW - WH - TRIM OPTIONS | MOUNT.: N - BA1)

HOUSING

SERIES
8DR

LUMENS [1]
Single CCT or TW
L10 1,000lm
L20 2,000lm
L30 3,000lm
Single CCT only
L40 4,000lm
L60 6,000lm
L80 8,000lm
L90 9,000lm

CRI
8 80
9 90 [2]

CCT
27 2700K
30 3000K
35 3500K
40 4000K
50 5000K
TW Tunable white (80 CRI, 2700K-5000K)

OPTIONS
*See page 3 for **EMERGENCY BATTERY OPTIONS.***
SCA_ _ Sloped ceiling adapter [3]
ATH Airtight construction
F Fuse
CP Chicago plenum (CCEA) [4]
SDT Stepdown transformer [5]
(L__) Additional lower lumen packages available. [6] Example: 5,500 lumens = 8DR-L60/835-**(L55)**

CONTROL
*Click **HERE** for control options.*
– None

DRIVER
*See page 5 for **ADDITIONAL DRIVER OPTIONS.***
DIM Dimming driver, 0-10V [7]
DIM1 1% Dimming driver, 0-10V [8]
DIM LINE Driver with line voltage dimming wires [9]

VOLTAGE
120 120V
277 277V
UNV 120-277V [10]
347 347V [11]

TRIM [12]

TRIM TYPE
O Open reflector
L Clear polycarbonate lens

DISTRIBUTION [13]
W 64° Wide
M 36° Medium
N 23° Narrow
S 13° Spot

REFLECTOR FINISH
WH White texture powder coat
CS Clear semi-specular powder coat
BL Black texture powder coat

TRIM OPTIONS
MWT Smooth matte white trim flange [14]
WET/CC Wet location, covered ceiling listed [15]
AM Anti-microbial [16]
AD Diffuse acrylic lens [17]
PD Diffuse 1/8″polycarbonate lens [18]

MOUNTING

MOUNTING TYPE [19]
N Open pan for new construction
I IC-rated enclosure for new construction [21]
R Remodel kit [22]

MOUNTING HARDWARE [20]
F1 Integral 2-position fixed pan bracket, universal bar hanger included [23]
BA1 Adjustable butterfly pan bracket, bar hanger not included [24]
CA1 Adjustable caterpillar pan bracket, universal bar hanger included [25]

NOTES

1 Lumen output based on O Trim Type, W Distribution and WH Reflector Finish, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Higher lumen packages available, consult factory.
2 Not available with tunable white.
3 14″ aperture, specify degrees of slope in 5° increments, 05°-30°. See page 4 for SLOPED CEILING ADAPTOR DETAILS. N Mounting Type only. Not available with ATH or WET/CC Options. Painted white. Other colors available, consult factory.
4 I Mounting Type required.
5 May be required for 347V, see product builder at hew.com/product-builder
6 Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
7 0.1% Driver with tunable white.
8 Not available with tunable white.
9 L40 lumen package max. Not available with tunable white.
10 L40 lumen package max.
11 Not available with Tunable White, EM batteries, or DMX Driver.
12 Trim ships separately.
13 Beam angle based on WH Reflector Finish. See page 2 for FIXTURE PERFORMANCE DATA.
14 Not available with WH Reflector Finish or L Trim Type.
15 L Trim Type only.
16 WH and BL Reflector Finishes only.
17 L Trim Type and W Distribution only.
18 L Trim Type and W Distribution only.
19 Mounting hardware required (N and I only), ordered separately, see MOUNTING HARDWARE ordering info. See page 4 for MOUNTING TYPE DETAILS.
20 Additional mounting hardware options available. See page 5 for MOUNTING HARDWARE DETAILS.
21 L40 lumen package max. Not available with EM batteries.
22 Also used in new construction sheetrock ceilings. Pan-less installation.
23 N and I Mounting Types only. I Mounting requires external brackets.
24 N Mounting Type only.
25 N Mounting Type only.

8DR LED
8″ Downlight – Round

FEATURES

- Beam angles ranging from 13° spot to 64° wide for tailored performance
- New construction mounting pan, IC-rated, or pan-less remodel kit available
- Industry-leading efficacies as high as 131 lm/w
- Contemporary design provides glare-free illumination for a soft ceiling appearance
- Sloped adapter accommodates vaulted ceilings
- Easily adjust mounting arms below ceiling to adapt to a range of ceiling thicknesses
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Fully room-side accessible
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

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″ – 3-11/16″.
- OPEN REFLECTOR – Painted aluminum with 1/2″ flange. White texture powder coat finish standard.
- LENSED TRIM – Spun aluminum lower trim with flush lens.
- 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. Tunable White products use LEDs of multiple CCTs and may produce a perceptibly different shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – Recessed. 20 ga. galvanized steel mounting pan for new construction or IC-rated enclosure. Remodel kit option includes receiver bracket hardware. Minimum 24″ O.C. marked spacing required for L60 - L90 lumen packages.
- LISTINGS –
  - cCSAus conforms to UL STD 1598; Certified to CAN/CSA STD C22.2 No. 250.0 for dry and damp locations. LED light assembly conforms to UL 2108 for remote installation.
  - Suitable for wet location under covered ceiling when specified with WET/CC option.
  - 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.
  - Build America, Buy America (BABA) and Buy American Act (BAA) compliant. Request certification at hew.com/buy-american
- WARRANTY – 5-year limited warranty, see hew.com/warranty

FIXTURE PERFORMANCE DATA

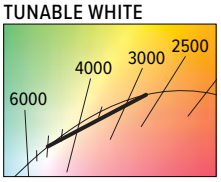
	DIST.	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
L10	W	1040	9.6	108
	M	1083	9.6	113
	N	987	9.6	103
	S	1113	9.6	116
L20	W	2030	17.3	117
	M	2113	17.3	122
	N	1926	17.3	111
	S	2172	17.3	126
L30	W	3054	24.1	127
	M	3164	24.1	131
	N	2871	24.1	119
	S	3222	24.1	134
L40	W	4049	33.2	122
	M	4195	33.2	126
	N	3806	33.2	115
	S	4271	33.2	129
L60	W	6017	48.7	124
	M	6258	48.7	129
	N	5674	48.7	117
	S	6378	48.7	131
L80	W	8045	67.9	118
	M	8367	67.9	123
	N	7586	67.9	112
	S	8528	67.9	126
L90	W	9059	78.6	115
	M	9421	78.6	120
	N	8542	78.6	109
	S	9603	78.6	122

MULTIPLIER TABLES

	COLOR TEMPERATURE		
	CCT	SINGLE CCT	TW
80 CRI	2700K	0.98	0.83
	3000K	1.00	1.00
	3500K	1.00	0.99
	4000K	1.01	1.00
	5000K	0.99	0.98
90 CRI	2700K	0.94	–
	3000K	0.96	–
	3500K	0.97	–
	4000K	0.97	–
	5000K	0.95	–

REFLECTOR FINISH	
CATALOG NUMBER	CONVERSION FACTOR
WH	1.00
CS [1]	0.93
BL [1]	0.75

TUNABLE WHITE

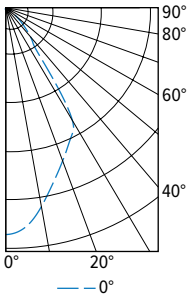


[1] Distribution will also be affected, consult factory.

- Photometrics tested in accordance with IESNA LM-79. Results based on O Trim Type, W Distribution, WH Reflector Finish, 80 CRI, 3500K for single CCT and 4000K, wattage for 120V input, and 25ºC 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

8DR-L60/835-OW-WH Total Luminaire Output: 6017 lumens; 48.7 Watts | Efficacy: 124 lm/W | 80 CRI; 3500K CCT

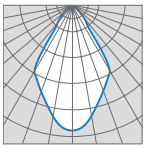


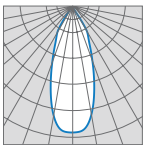
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	ZONAL LUMENS
	0	5899	
	5	5734	531
	15	4695	1320
	25	3834	1769
	35	1608	1158
	45	738	575
	55	345	316
	65	192	190
	75	113	119
	85	34	38
	90	0	

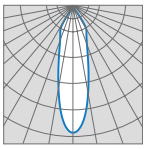
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	4778	79
	0 - 60	5670	94
	0 - 90	6017	100
	0 - 180	6017	100

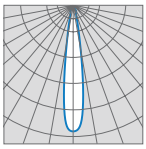
PHOTOMETRY CONTINUED ON NEXT PAGE.

8DR LED
8″ Downlight – Round


64° Wide


36° Medium


23° Narrow

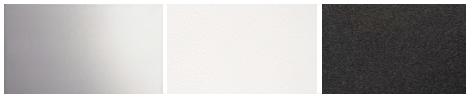

13° Spot

REFLECTOR FINISH DETAILS

CS
Clear semi-specular

WH
White

BL
Black



EMERGENCY BATTERY OPTIONS

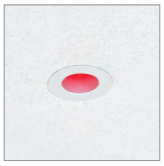
ORDERING EXAMPLE: EM/7W/RTS	
EMERGENCY BATTERY	TEST SWITCH
EM/7W 7-watt emergency battery **EM/10W** 10-watt emergency battery	**–** Standard **/RTS** Regressed test switch [1] **/IPRTS** IP65 rated regressed test switch [2]

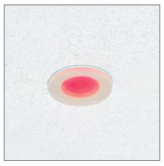
Additional limitations apply, see page 1. Specify CEC in the option code when California Energy Commission regulations are required. Max remote distance is 50′, connection by others.

1 Not available with WET/CC Trim Option.
2 Must specify WET/CC Trim Option.

TEST SWITCH DETAILS

Standard
2-3/4″ x 4-1/2″


Regressed
ø1-3/4″


IP-Rated
ø1-3/4″

APERTURE ADAPTOR ORDERING INFO

ORDERING EXAMPLE: 4DR - GR - 0575 - WHT			
SERIES	CATALOG #	CEILING CUTOUT	FINISH
4AR **6AR** **8DR** **4DR** **6DR** **4DS** **6DS** **4PR** **6PR** **4PS** **6PS**	**GR**	Specify ceiling cutout in 1/8″ increments. Example: 5.75″ = **0575** See Kit Components for application limits.	**CS** Clear semi-specular powder coat **WH** White texture powder coat **BL** Black texture powder coat

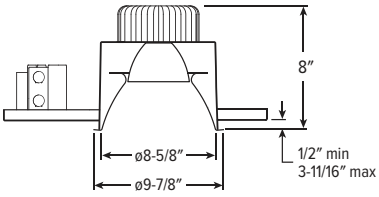
Adaptor (goof ring) corrects ceiling cutout errors during remodel downlight installation.

Additional finishes available, consult factory.

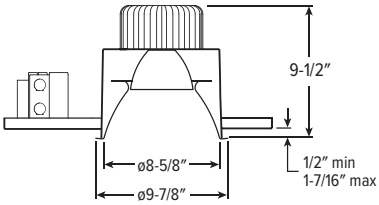
For limitations and instructions, see hew.com/aperture-adaptor.pdf

CROSS SECTIONS

L10 – L40 LUMENS

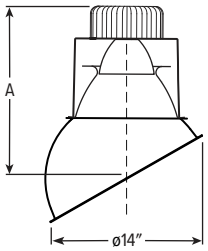


L60 – L90 LUMENS



8DR LED
8″ Downlight – Round

SLOPED CEILING ADAPTOR DETAILS



Ceiling cutout: ø14-3/8″

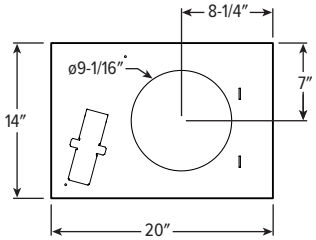
	A (HEIGHT)						PLENUM HEIGHT
LUMENS	5°	10°	15°	20°	25°	30°	
L10 - L40	13-5/16″	13-3/8″	13-5/16″	13-3/16″	13″	12-5/8″	13-3/4″
L60 - L90	14-3/4″	14-13/16″	14-3/4″	14-5/8″	14-5/16″	14″	15″

30° Shown

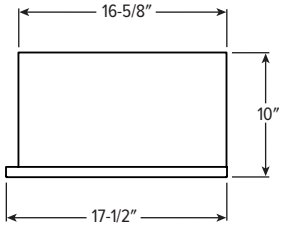
MOUNTING TYPE DETAILS

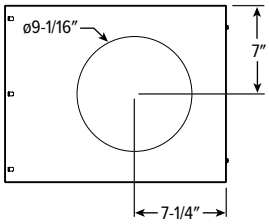
Flex conduit is recommended for installation. Ceiling cutout 9-1/16″ for all mounting types.

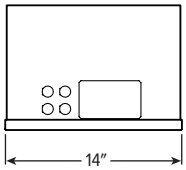
NEW CONSTRUCTION



IC-RATED





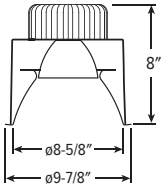


REMODEL

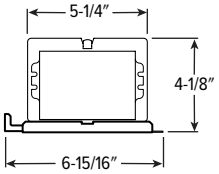
H.E. Williams Inc. strongly recommends installing a trial fixture to confirm fitment on-site prior to ordering full project quantities.

CROSS SECTION

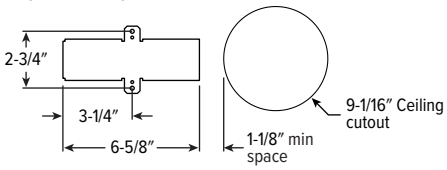
L10 – L40 lumens shown



DRIVER & JUNCTION BOX



RECEIVER BRACKET

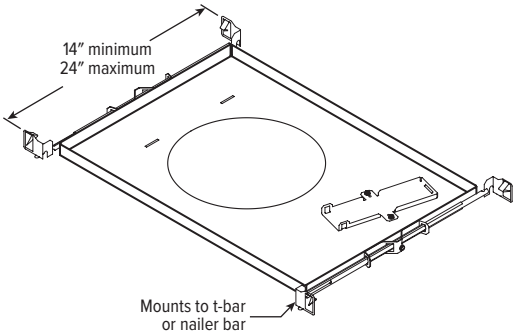


MOUNTING CONTINUED ON NEXT PAGE

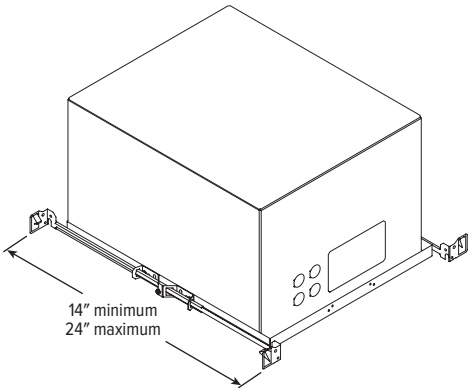
8DR LED
8″ Downlight – Round

MOUNTING HARDWARE DETAILS

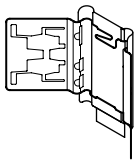
F1 Integral 2-position fixed pan bracket, universal bar hanger included



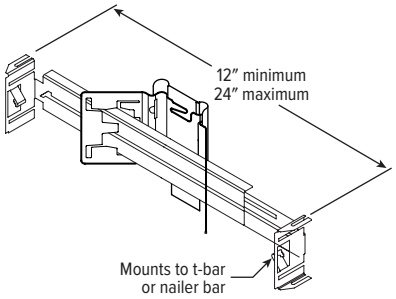
F1 with I Mounting Type



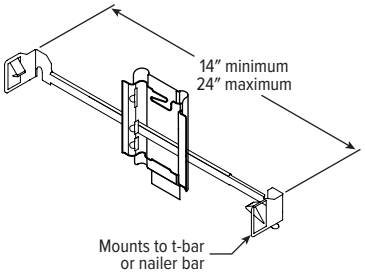
BA1 Adjustable butterfly pan bracket, bar hanger not included (N Mounting Type only)



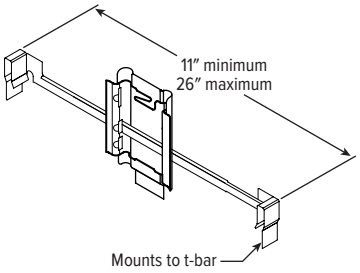
BA2 Adjustable butterfly pan bracket, heavy-duty universal bar hanger included. (N Mounting Type only)



CA1 Adjustable caterpillar pan bracket, universal bar hanger included (N Mounting Type only)



CA2 Adjustable caterpillar pan bracket, t-bar hanger included (N Mounting Type only)



ADDITIONAL DRIVER OPTIONS

Lumen restrictions apply: L60 max for DMX and DALI drivers. L15 min to L50 max for DIM LINE or Lutron drivers. R Mounting Type requires 12″ minimum plenum depth when specified with VRF/DBI controls. 347V may require stepdown transformer, see product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DIM	Driver with external dimming wires prewired for 0-10V low voltage applications (tunable white: (1) 0-10V signal controls 0.1% dimming and (1) 0-10V signal controls CCT)
DIM1 [1]	1% driver with external dimming wires prewired for 0-10V low voltage applications
DIM LINE [1]	Line voltage dimming driver (TRIAC and ELV compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
LDE1 [1]	Lutron Hi-lume 1% EcoSystem dimming driver
LD2	Lutron DALI-2 digital driver, 1%
DCC	Remote UL Class 2 DC constant current supply, UL- or CSA-listed, by others

1 Single CCT only.

TUNABLE WHITE DRIVER DETAILS

DIM

DALI

DMX

LD2