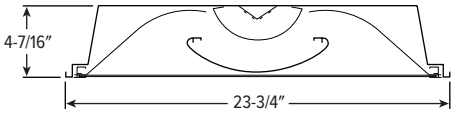
DIL LED
Recessed Direct/Indirect Lensed



2x2 | 2x4 AD Shown

CATALOG #:

TYPE:

PROJECT:

BAA & BABA COMPLIANT | CCEA Approved | TW

FEATURES

- Transparent lensed door provides a barrier between the room and the diffuser to discourage vandals and minimize contaminants
- Double or triple gasketing options available
- Ribbed acrylic diffuser shields LEDs from direct view
- Fully enclosed spring-loaded cam latches allow years of hassle-free maintenance
- T-slot steel hinge allows reversible hinging and latching and ensures positive retention when door is opened
- Optional anti-microbial white finish available for use in healthcare applications
- Support human-centric design with adaptive, individualized lighting using tunable white light
- Maximize energy savings with efficacies as high as 142 lm/w
- Wireless in-fixture control solutions available
- Made Right Here® in the USA

SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- DOOR FRAME & LENS – Transparent acrylic lens, .080″ thick, mounted in .050″ thick extruded aluminum door frame, flat with mitered corners.
- REFLECTOR – Precision die-formed C.R.S. with highly reflective, non-glare matte white polyester powder coated finish.
- SHIELDING – .125″ frosted ribbed acrylic diffuser.
- FINISH – 92% minimum average reflective white polyester powder coat bonded to phosphate-free, multi-stage pretreated metal. All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- ELECTRICAL – High-quality mid-power LED boards. L70 at 50,000 hours per IES TM-21. 50/60 Hz constant current driver. Tunable White products use LEDs of multiple shade of white from single-CCT products at the same CCT. All CCTs are within 3 MacAdam ellipses.
- MOUNTING – NEMA Type “G” 15/16″ or 1″ grid standard. For NEMA Type “NFG” and “SG” 9/16″ grid installations, specify EQCLIPS option. Drywall flange type available.
- LISTINGS –
  - cCSAus certified as luminaire suitable for dry or damp locations.
  - City of Chicago Environmental Air approved when specified with CP option.
  - 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

ORDERING EXAMPLE: DILG - S24 - L64/835 - FAD - OPTIONS - CONTROL/DIM - UNV

SERIES	CEILING TYPE	FIXTURE STYLE	WIDTH	LENGTH	LUMENS [1]	CRI	CCT
DIL	**G** 15/16″ or 1″ grid **F** Flange [2]	**S** Full door frame, no reveal	**1** 1′ [3] **2** 2′	**2** 2′ **4** 4′	**1x4** **L30** 3,000lm **L48** 4,800lm [4] **2x2** **L25** 2,500lm **L32** 3,200lm **L45** 4,500lm **2x4** **L51** 5,100lm **L64** 6,400lm **L89** 8,900lm [5]	**8** 80 **9** 90	**27** 2700K **30** 3000K **35** 3500K **40** 4000K **50** 5000K **TW** Tunable white (3000K-5000K) **TW2** Tunable white (2700K-6500K)

DOOR FRAME	SHIELDING
F Flat aluminum	**AD** Acrylic **WPR** White perforated round [6]

OPTIONS	
EM/10WLP	Low-profile 10-watt emergency battery
EM/10W/ST	10-watt self-diagnostic emergency battery
EQCLIPS	Earthquake clips [7]
DG	Double gasket [8]
TG	Triple gasket [9]
(L__)	Additional lower lumen packages available [10] **Example**: 7,500 nominal lumens = DILG-S24-L89/835-**(L75)**
CP	Chicago plenum (CCEA)
AMW	Anti-microbial white finish

CONTROL [11]

*Click **HERE** for control and sensor options.*

– None

DRIVER

*See page 4 for **ADDITIONAL DRIVER OPTIONS**.*

DIM Driver with external 0-10V dimming wires [12]
DIM1 1% Driver with external 0-10V dimming wires [13]
DRV Driver without external dimming wires [14]

VOLTAGE

120 120V
277 277V
UNV 120-277V
347 347V [15]

NOTES

1 Lumen output based on AD Shielding, 80 CRI, 3500K for static white and 4000K for tunable white. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA. Additional lumen packages available, see Options.
2 See page 3 for F CEILING TYPE INSTALLATION.
3 4′ length only.
4 Not available with tunable white.
5 Not available with tunable white.
6 2x2 and 2x4 only.
7 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with F Ceiling Type.
8 See page 3 for GASKETING DETAILS.
9 Field-installed. See page 3 for GASKETING DETAILS.
10 Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.
11 See page 3 for SENSOR & NODE PLACEMENT DETAILS.
12 0.1% Driver with tunable white.
13 Not available with tunable white.
14 Not available with tunable white.
15 Not available with EM batteries or tunable white.

DIL LED
Recessed Direct/Indirect Lensed

FIXTURE PERFORMANCE DATA

	LUMEN PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (LM/W)
1x4	L30	3081	27.6	112
	L48	4812	41.1	117
2x2	L25	2614	19.6	133
	L32	3202	23.9	134
	L45	4405	31.2	141
2x4	L51	5228	37.7	139
	L64	6515	48.0	136
	L89	8903	62.8	142

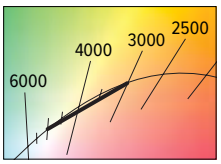
- Photometrics tested in accordance with IESNA LM-79. Results based on AD Shielding, 80 CRI, 3500K for static white and 4000K for tunable white, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier tables to calculate additional options.

MULTIPLIER TABLES

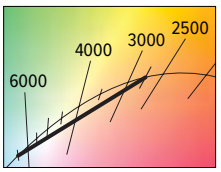
	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
80 CRI	2700K	0.97	–	0.93
	3000K	0.99	0.95	0.95
	3500K	1.00	0.98	0.98
	4000K	1.03	1.00	1.00
	5000K	1.06	0.96	1.02
	6500K	–	–	1.01
90 CRI	2700K	0.80	–	0.93
	3000K	0.82	0.91	0.95
	3500K	0.83	0.96	0.98
	4000K	0.86	1.00	1.00
	5000K	0.89	1.03	1.03
	6500K	–	–	1.02

	LENS	CONVERSION FACTOR
2x2	AD	1.00
	WPR	0.75
2x4	AD	1.00
	WPR	0.79

TW

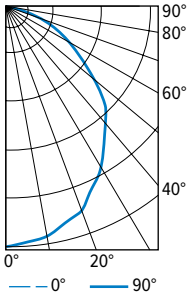


TW2



PHOTOMETRY

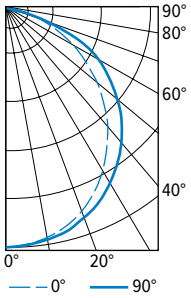
DILG-S14-L48/835 Total Luminaire Output: 4812 lumens; 41.1 Watts | Efficacy: 117.1 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	2092	2092	2092	
	5	2057	2056	2056	196
	15	1950	1957	1970	556
	25	1750	1766	1775	820
	35	1488	1519	1538	952
	45	1215	1270	1286	954
	55	808	860	761	731
	65	468	455	321	421
	75	173	135	98	157
	85	22	19	19	27
	90	0	0	0	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1571	33
	0 - 40	2523	52
	0 - 60	4207	87
	0 - 90	4812	100
	0 - 180	4812	100

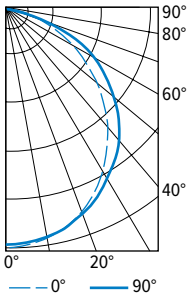
DILG-S22-L45/835-FAD Total Luminaire Output: 4405 lumens; 31.2 Watts | Efficacy: 141 lm/W | 80 CRI; 3500K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	1729	1729	1729	
	5	1720	1716	1719	163
	15	1635	1648	1665	465
	25	1473	1507	1545	694
	35	1245	1304	1369	816
	45	980	1058	1150	818
	55	698	781	903	706
	65	422	500	595	495
	75	176	211	214	217
	85	20	25	19	33
	90	2	3	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	2137	49
	0 - 60	3660	83
	0 - 90	4405	100
	0 - 180	4405	100

DILG-S24-L89/835-FAD Total Luminaire Output: 8903 lumens; 62.8 Watts | Efficacy: 142 lm/W | 80 CRI; 3500K CCT



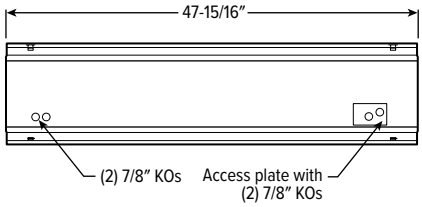
CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	3439	3439	3439	
	5	3470	3407	3405	325
	15	3289	3258	3280	922
	25	2960	2970	3030	1373
	35	2531	2598	2703	1629
	45	2013	2133	2257	1644
	55	1450	1590	1765	1433
	65	897	1049	1179	1028
	75	389	442	449	471
	85	51	56	56	77
	90	3	3	3	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 40	4249	48
	0 - 60	7326	82
	0 - 90	8903	100
	0 - 180	8903	100

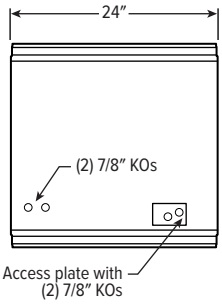
FIXTURE DETAILS

See hew.com/power-entry for power entry details.

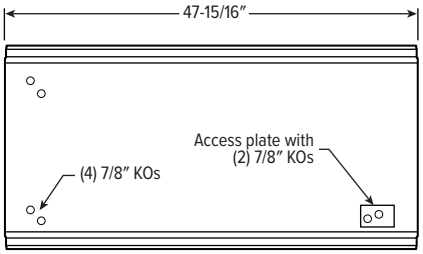
1x4



2x2



2x4

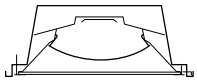


CROSS SECTIONS

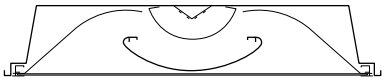
G CEILING TYPE INSTALLATION

AD

1x4

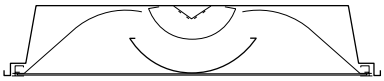


2x2 | 2x4



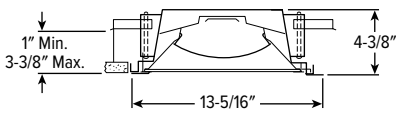
WPR

2x2 | 2x4



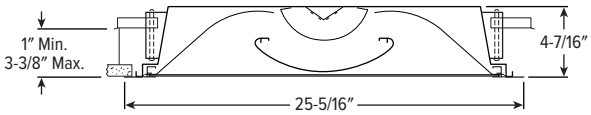
F CEILING TYPE INSTALLATION

1x4



Note: Maximum recommended ceiling opening is 12-3/8″x 48-3/8″. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.

2x2 | 2x4



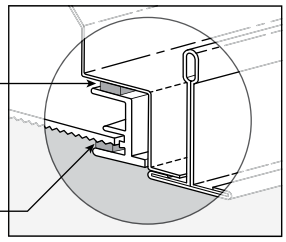
Note: Maximum recommended ceiling opening is 24-3/8″ x 24-3/8″ for 2′x2′ and 24-3/8″x 48-3/8″ for 2′x4′. For continuous row mounting, add 49-5/16″ for each additional fixture to obtain ceiling opening. 1-5/16″ between end plates.

GASKETING DETAILS

DOUBLE GASKETING (DG OPTION)

Door frame gasketing factory-installed between door frame and luminaire housing prevents light leak and reduces dust ingress.

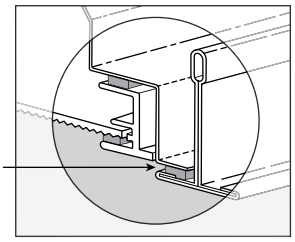
Shielding gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



TRIPLE GASKETING (TG OPTION)

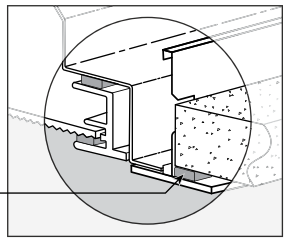
T-bar

Ceiling gasketing field installed between bottom perimeter of fixture and T-bar ceiling seals plenum dust from the room.

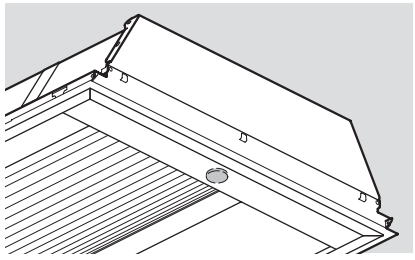


Drywall

Between bottom perimeter of fixture and hardpan ceiling.



SENSOR & NODE PLACEMENT DETAILS



ADDITIONAL DRIVER OPTIONS

Note: Restrictions may apply, consult product builder at hew.com/product-builder

CATALOG NUMBER	DESCRIPTION
DRV [1]	Driver without external dimming wires prewired for non-dimming applications
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)
DIM TRC [1]	Line voltage dimming driver (TRIAC compatible, 120V only)
DA	Driver with 12V auxiliary power, without external dimming wires (not available with 347V)
DSR	DALI-2 sensor-ready driver without external dimming wires (Not available with 347V. Static CCTs use D4i DALI-2 driver)
DALI	DALI dimming driver
DMX	Driver prewired for DMX applications
SD40 [1]	40% step-dimming driver
SD50 [1]	50% step-dimming driver
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