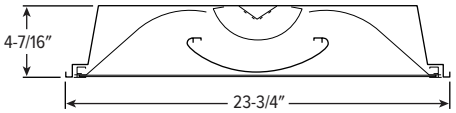
DIL tunable WHITE
Recessed Direct/Indirect Lensed



Shown with AD

CATALOG #:

TYPE:

PROJECT:

FEATURES

- Support human-centric design with adaptive, individualized lighting using tunable white light
- Transparent lensed door provides a barrier between the room and the diffuser to discourage vandals and minimize contaminants
- Ribbed acrylic diffuser shields LEDs from direct view
- 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
- Maximize energy savings with efficacies as high as 126 lm/W
- 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 board. L70 > 50,000 hours per IES TM-21. 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 – 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.
  - 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: DILG - S24 - L65/8TW - FAD - OPTIONS - DALI - UNV

ORDERING INFO

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	**2** 2′	**2** 2′ **4** 4′	**2x2** **L32** 3,200lm **L45** 4,500lm **2x4** **L51** 5,100lm **L65** 6,500lm	**8** 80 **9** 90 [3]	**TW** Tunable white (3000K-5000K) **TW2** Tunable white (2700K-6500K)

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

OPTIONS [4]	
EM/10WLP	Low-profile 10-watt emergency battery
EQCLIPS	Earthquake clips [5]
DG	Double gasket [6]
TG	Triple gasket [7]
(L__)	Additional lower lumen packages available. [8] Example: 6,000 nominal lumens = DILG-S24-L65/8TW-**(L60)**
CP	Chicago plenum (CCEA)
AMW	Anti-microbial white finish

CONTROL	
DALI	Driver prewired for DALI applications
DIM	(1) 0-10V signal to control dimming (1) 0-10V signal to control CCT
DMX	Driver prewired for DMX applications
PSQ	Lutron T-Series 2-channel tunable white 1%.

VOLTAGE	
120	120V
277	277V
UNV	120-277V

NOTES

1. Lumen output based on AD Shielding, 80 CRI/4000K CCT. 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. Extended lead times may apply. Consult factory for availability.
4. See Technical Info for DRYWALL KIT and POWER ENTRY details.
5. 4 per fixture. Optional for 1″ grid installations. Required for 9/16″ grid mounting. Not available with F Ceiling Type.
6. See page 3 for GASKETING DETAILS.
7. Field-installed. See page 3 for GASKETING DETAILS.
8. Specify in increments of 100 nominal lumens. Option must be specified with next higher lumen package.

DIL tunable WHITE
Recessed Direct/Indirect Lensed

FIXTURE PERFORMANCE DATA

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (lm/W)
2x2	L32	3231	27.4	118
	L45	4543	38.7	117
2x4	L51	5100	40.7	125
	L65	6596	52.5	126

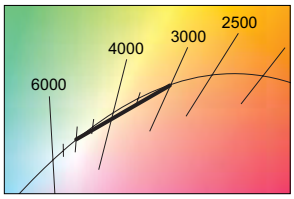
- Photometrics tested in accordance with IESNA LM-79. Results based on 80 CRI/4000K CCT, average wattage for 120V through 277V input, and 25°C ambient temperature. Actual performance may vary +/-5%.
- To calculate lumen output in emergency mode, multiply the battery wattage by the efficacy.
- Use multiplier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

MULTIPLIER TABLES

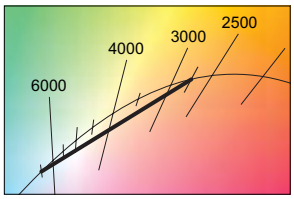
	COLOR TEMPERATURE	TW		TW2	
	CCT	LUMENS	WATTAGE	LUMENS	WATTAGE
80 CRI	2700K	–	–	0.93	1.02
	3000K	0.95	1.04	0.95	1.01
	3500K	0.98	1.02	0.98	1.00
	4000K	1.00	1.00	1.00	1.00
	5000K	0.96	1.04	1.02	1.00
	6500K	–	–	1.01	1.04
90 CRI	2700K	–	–	0.81	1.02
	3000K	0.83	1.04	0.83	1.01
	3500K	0.86	1.02	0.86	1.00
	4000K	0.88	1.00	0.88	1.00
	5000K	0.84	1.04	0.89	1.00
	6500K	–	–	0.88	1.04

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

TW

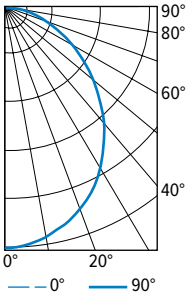


TW2



PHOTOMETRY

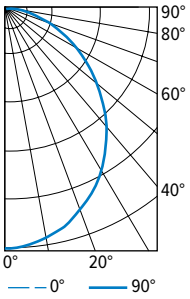
DILG-S22-L45/8TW-FAD Total Luminaire Output: 4543 lumens; 38.8 Watts | Efficacy: 117 lm/W | 80 CRI; 4000K CCT



CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	1784	1784	1784	
	5	1774	1770	1773	168
	15	1686	1699	1717	479
	25	1519	1554	1593	715
	35	1284	1345	1412	841
	45	1011	1091	1186	843
	55	720	806	932	728
	65	435	516	614	510
	75	182	217	221	224
	85	21	25	20	34
	90	2	3	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1363	30
	0 - 40	2204	49
	0 - 60	3775	83
	0 - 90	4543	100
	0 - 180	4543	100

DILG-S24-L65/8TW-FAD Total Luminaire Output: 6596 lumens; 52.5 Watts | Efficacy: 126 lm/W | 80 CRI; 4000K CCT

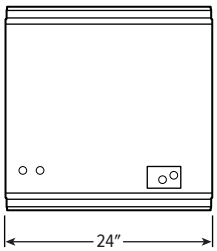


CANDLEPOWER DISTRIBUTION	VERTICAL ANGLE	HORIZONTAL ANGLE 0°	45°	90°	ZONAL LUMENS
	0	2548	2548	2548	
	5	2571	2524	2522	241
	15	2437	2414	2430	683
	25	2193	2200	2245	1018
	35	1875	1925	2003	1207
	45	1492	1580	1672	1218
	55	1074	1178	1308	1062
	65	665	777	874	762
	75	288	327	333	349
	85	38	42	42	57
	90	2	3	2	

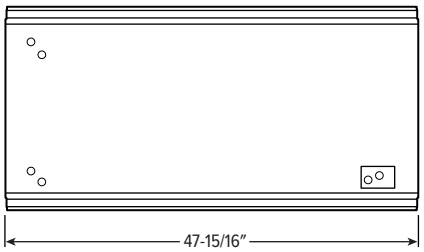
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1941	29
	0 - 40	3148	48
	0 - 60	5428	82
	0 - 90	6596	100
	0 - 180	6596	100

FIXTURE DETAILS

2x2



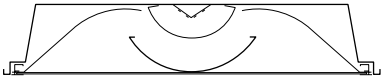
2x4



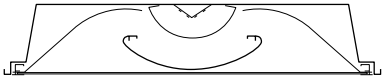
DIL tunable WHITE
Recessed Direct/Indirect Lensed

CROSS SECTIONS

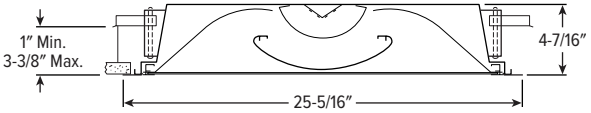
WPR



AD



F CEILING TYPE INSTALLATION



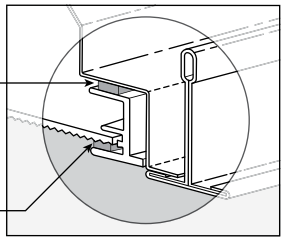
Note: Maximum recommended ceiling opening is 24-3/8" x 24-3/8" for 2'x2' and 24-3/8"x 48-3/8" for 2'x4'. For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

GASKETING DETAILS

DOUBLE GASKETING (DG OPTION)

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

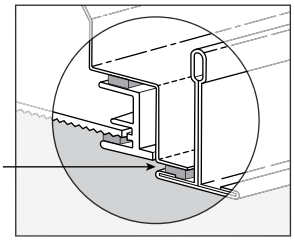
Second gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



TRIPLE GASKETING (TG OPTION)

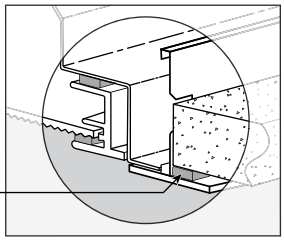
T-bar

Third 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.



CONTROL DETAILS

DIM

DALI

DMX

LUTRON T-SERIES