

CATALOG #: \_\_\_\_\_

TYPE: \_\_\_\_\_

PROJECT: \_\_\_\_\_



**FEATURES**

- Deliver scalable, data-driven smart buildings with PoE-enabled fixtures and controls
- 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
- 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. Low-voltage DC fixture, to be fed by Class 2 power supply. 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.
  - Complies with the Buy American Act and other federal regulations. Request certification at [hew.com/baa](http://hew.com/baa).
- WARRANTY – 5-year limited warranty, see [hew.com/warranty](http://hew.com/warranty).

**SYSTEM REQUIREMENTS**

- PoE-ready luminaires are connected to building power systems through network integration and require other components for complete PoE lighting system
- For additional PoE info, see [hew.com/poe](http://hew.com/poe)

**ORDERING EXAMPLE: DILG - S24 - P56/835 - FAD - OPTIONS - POE PR**

**ORDERING INFO**

SERIES	CEILING TYPE	FIXTURE STYLE	WIDTH	LENGTH	LUMENS <sup>[1]</sup>	CRI	CCT
DIL	G 15/16” or 1” grid F Flange <sup>[2]</sup>	S Full door frame, no reveal	2 2’	2 2’	2x2	8 80	27 2700K
				4 4’	P24 2,400lm	9 90 <sup>[3]</sup>	30 3000K
					P40 4,000lm		35 3500K
					2x4		40 4000K
					P27 2,700lm		50 5000K
					P56 5,600lm		TW Tunable white (3000K–5000K)
							TW2 Tunable white (2700K-6500K)

**DOOR FRAME**

F Flat aluminum

**SHIELDING**

AD Acrylic  
WPR White perforated round

**OPTIONS<sup>[4]</sup>**

EQCLIPS Earthquake clips<sup>[5]</sup>  
DG Double gasket<sup>[6]</sup>  
TG Triple gasket<sup>[7]</sup>  
AMW Anti-microbial white finish

**CONTROL<sup>[8]</sup>**

POE PR Power over Ethernet-ready

**NOTES**

- 1 Lumen output based on AD Shielding, 80 CRI, 3500K for single CCT and 4000K for TW. Actual performance may vary +/-5%. See page 2 for FIXTURE PERFORMANCE DATA.
- 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 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 For additional PoE connection details, consult factory.



## FIXTURE PERFORMANCE DATA

### STATIC WHITE

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (LM/W)
2x2	P24	2427	16.8	144
	P40	3999	30.1	133
2x4	P27	2720	17.9	152
	P56	5652	38.2	148

### TUNABLE WHITE

	LED PACKAGE	DELIVERED LUMENS	WATTAGE	EFFICACY (LM/W)
2x2	P24	2440	18.5	132
	P40	4001	31.6	127
2x4	P27	2746	20.2	136
	P56	5648	41.1	137

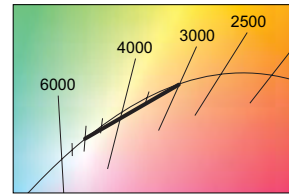
### MULTIPLIER TABLES

	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

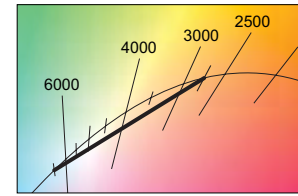
	LENS	CONVERSION FACTOR
2x2	AD	1.00
	WPR	0.75
2x4	AD	1.00
	WPR	0.79

90 CRI	COLOR TEMPERATURE			
	CCT	STANDARD	TW	TW2
	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	

### TW



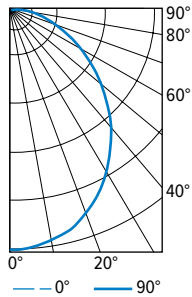
### TW2



- Photometrics tested in accordance with IESNA LM-79. Results based on AD shielding, 80 CRI, 3500K CCT static white, 4000K CCT tunable white, and 25°C ambient temperature. Actual performance may vary +/-5%.
- Use multiplier tables to calculate additional options.

## PHOTOMETRY

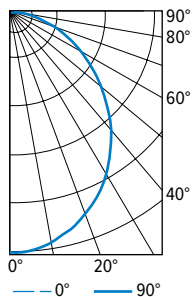
**DILG-S22-P40/835-FAD** Total Luminaire Output: 3999 lumens; 30.1 Watts | Efficacy: 133 lm/W | 80 CRI; 3500K CCT



VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	1570	1570	1570	
5	1561	1558	1560	148
15	1484	1496	1512	422
25	1337	1368	1402	630
35	1130	1184	1243	740
45	890	961	1044	742
55	634	709	820	641
65	383	454	540	449
75	160	191	194	197
85	19	22	17	30
90	1	2	2	

LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1200	30
	0 - 40	1940	49
	0 - 60	3323	83
	0 - 90	3999	100
	0 - 180	3999	100

**DILG-S24-P56/835-FAD** Total Luminaire Output: 5652 lumens; 38.2 Watts | Efficacy: 148 lm/W | 80 CRI; 3500K CCT

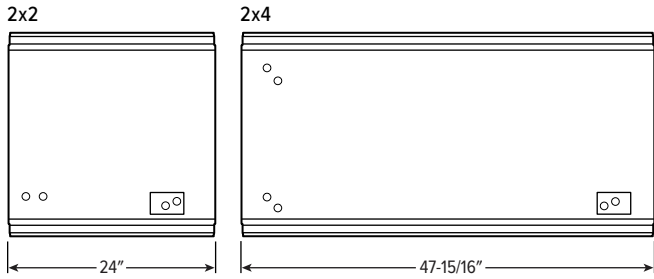


VERTICAL ANGLE	HORIZONTAL ANGLE			ZONAL LUMENS
	0°	45°	90°	
0	2183	2183	2183	
5	2203	2163	2161	206
15	2088	2068	2082	585
25	1879	1885	1924	872
35	1607	1649	1716	1034
45	1278	1354	1433	1044
55	920	1010	1121	910
65	569	666	749	653
75	247	280	285	299
85	32	36	36	49
90	2	2	2	

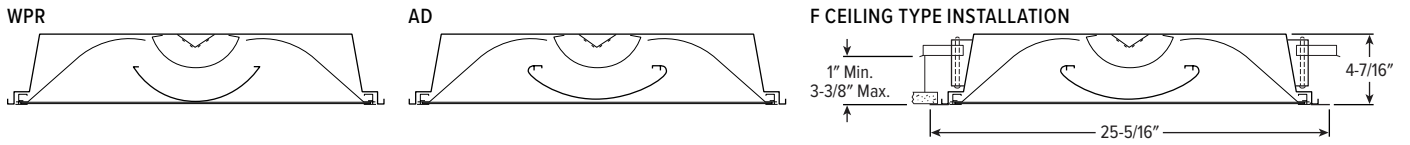
LUMEN SUMMARY	ZONE	LUMENS	% FIXTURE
	0 - 30	1663	29
	0 - 40	2697	48
	0 - 60	4651	82
	0 - 90	5652	100
	0 - 180	5652	100



**FIXTURE DETAILS**



**CROSS SECTIONS**



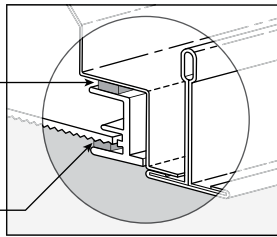
Note: Maximum recommended ceiling opening is 24-3/8" x 24-3/8" for 2'x2' and 24-3/8" x 48-3/8" for 2'x4'. For continuous row mounting, add 49-5/16" for each additional fixture to obtain ceiling opening. 1-5/16" between end plates.

**GASKETING DETAILS**

**DOUBLE GASKETING (DG OPTION)**

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

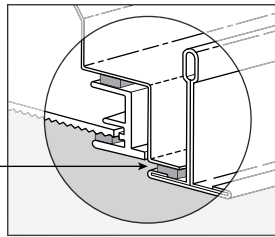
Second gasketing factory-installed between door frame and lens reduces dust and bug contaminants.



**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.

