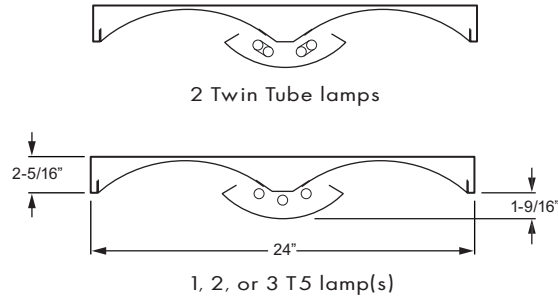
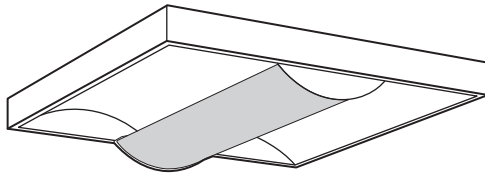


# 2' x 2' DIRECT/INDIRECT SHALLOW SURFACE MOUNT

SERIES **DISHS**  
2' x 2'

JOB \_\_\_\_\_  
TYPE \_\_\_\_\_  
VOLTAGE \_\_\_\_\_



## SPECIFICATIONS

- HOUSING – 22-gauge die-formed C.R.S.
- SHIELDING – Die-formed C.R.S., 50% open perforation, white powder coated diffuser with matte white acrylic overlay.
- REFLECTOR – Precision die-formed C.R.S. with highly-reflective, non-glare textured matte white polyester powder coated finish.
- FINISH – Highly-reflective textured matte white powder coat with multi-stage iron/phosphate prepared metal.
- ELECTRICAL – Electronic ballast standard, instant start T8, programmed start T5, rated Class P.
- LABELS – UL/CUL listed as fluorescent luminaire suitable for dry or damp locations.
- MOUNTING – Surface.

## FEATURES

- Choice of diffusers include full round, split round, and round with a center acrylic accent.
- Gently curved diffuser below the bottom plane of the fixture allows a uniform light distribution that brightens walls and ceilings.
- Swing down diffuser for easy access to the electrical components.
- Up to three T5 or two twin tube lamps in cross-section for a variety of applications and illumination levels.
- Optional anti-microbial powder coating available to prevent the spread of dangerous micro-organisms and suppress the growth of mold and bacteria.
- All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit corrosion.
- This fixture is proudly made in the USA.

## ORDERING INFORMATION

Submittal

EXAMPLE: **DISHS** - **2** **2** - **2** **40TT** - **WPR** - **OPTIONS** - **EB2** - **UNV**

SERIES	
DISHS	Direct/Indirect Shallow Surface Mount
NOMINAL WIDTH	
2	2'
NOMINAL LENGTH	
2	2'
TOTAL LAMPS	
1, 2, or 3	(T5 only)
2	(Twin tube only)

LAMP WATTAGE/TYPE	
14T5S	2', 14-watt T5
24T5H	2', 24-watt T5HO
40TT	2', 40-watt long twin tube
50TT	2', 50-watt long twin tube
55TT	2', 55-watt long twin tube
SHIELDING	
WPR	White perforated round diffuser
WPR/SPLIT	White perforated round w/split diffuser
WPR/ACRY/CTR/CLR	White perforated round w/center clear acrylic (other colors available)

BALLAST TYPE	
EB1	1-lamp electronic ballast
EB2	2-lamp electronic ballast
EB2/1	(1) 2-lamp & (1) 1-lamp electronic ballast
VOLTAGE	
120	120V
277	277V
UNV	120-277V
347	347V

OPTIONS	
DUSTCVR	Dust and debris cover (WPR only)
AMW	Anti-microbial white finish

Note: For more options/accessories, ballast combinations, and product details, please consult factory.



FLUORESCENT LIGHTING

# DISHS

2' x 2'

SERIES

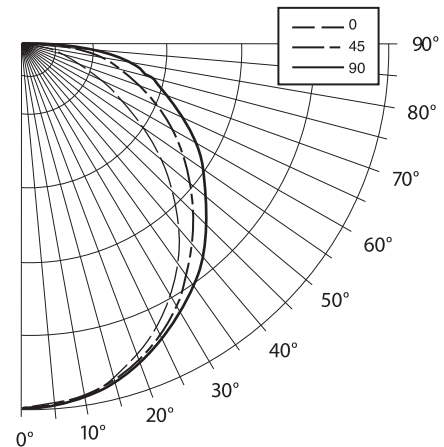
## PHOTOMETRY INFORMATION

Williams Catalog #DISHS-22-240TT-WPR  
 Test Report #12906.0, Dated 12/12/05

Lamp Type: FT40W/2G11/835  
 Lamp Quantity: 2

### CANDLEPOWER DISTRIBUTION

VERT. ANG.	HORIZONTAL ANGLE			ZONAL LUMENS
	0	45	90	
0	1314.	1314.	1314.	
5	1311.	1309.	1304.	124.9
15	1257.	1263.	1268.	358.3
25	1143.	1171.	1186.	540.5
35	983.	1037.	1077.	649.6
45	770.	880.	948.	672.8
55	537.	709.	800.	619.2
65	304.	539.	648.	505.7
75	138.	372.	475.	361.7
85	25.	184.	258.	179.1
90	1.	31.	66.	



### LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXTURE
0 - 30	1024.	16.2	25.5
0 - 40	1673.	26.6	41.7
0 - 60	2965.	47.1	73.8
0 - 90	4012.	63.7	99.9
0-180	4016.	63.7	100.0

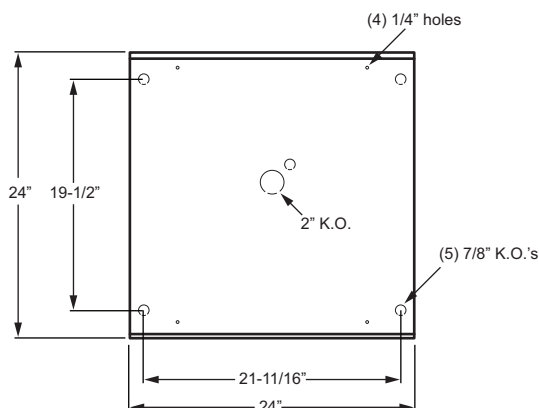
**TOTAL LUMINAIRE OPTICAL EFFICIENCY = 63.7%**  
 SPACING CRITERIA: END = 1.2 DIAG = 1.3 ACROSS = 1.3

### ZONAL CAVITY COEFFICIENTS

EFFECTIVE FLOOR CAVITY REFL. = .20

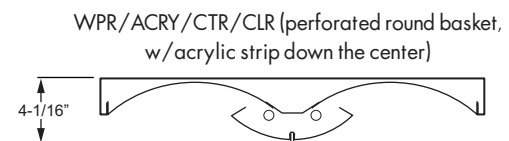
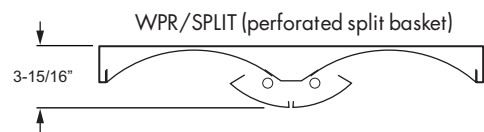
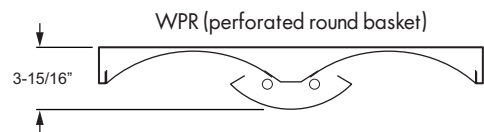
CEILING WALL RCR	.80			.70			.50		
	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	.76	.76	.76	.74	.74	.74	.71	.71	.71
1	.69	.66	.63	.67	.64	.62	.62	.59	.57
2	.63	.57	.53	.61	.56	.52	.54	.50	.47
3	.57	.51	.45	.56	.50	.45	.48	.43	.40
4	.52	.45	.39	.51	.44	.39	.42	.38	.34
5	.48	.39	.34	.46	.39	.33	.37	.33	.29
6	.44	.35	.30	.43	.35	.29	.34	.29	.25
7	.41	.32	.26	.39	.31	.26	.30	.25	.22
8	.37	.28	.23	.36	.28	.23	.27	.22	.19
9	.34	.26	.20	.33	.25	.20	.24	.20	.16
10	.32	.23	.18	.31	.23	.18	.22	.18	.14

## BACK VIEW



## DIFFUSERS

Three (3) diffuser options available. Consult factory for verification.



H. E. WILLIAMS, INC.

H.E. Williams, Inc. • Carthage, Missouri • [www.hewilliams.com](http://www.hewilliams.com) • 417-358-4065 • Fax: 417-358-6015

Information contained herein is subject to change without notice.

HEWJP60842 09/01/11RJ