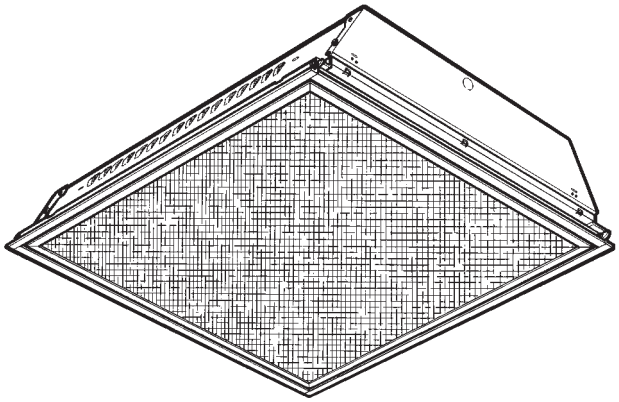
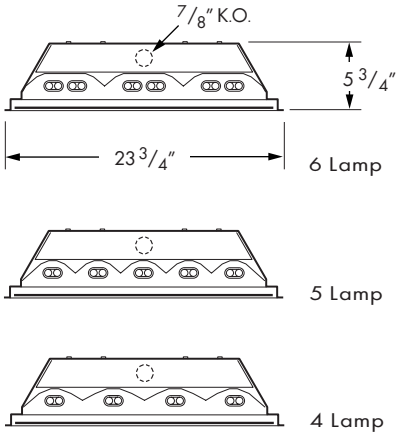
2′ x 2′ **MULTI-PURPOSE**

MP

VOLTAGE TYPE JOB SERIES





SPECIFICATIONS

- HOUSING — .040" die formed aluminum
- DOOR FRAME — .050" extruded aluminum flat or regress with T-hinges and fully enclosed, spring-loaded cam latches
- REFLECTIVE SURFACES — highly specular MIRO 4™ reflector system
- SHIELDING — C73 glass lens, acrylic prismatic lens, high impact acrylic prismatic lens, or prismatic polycarbonate lens
- FINISH — white powder coating with 5-stage iron/phosphate prepared metal. 92% minimum average reflectance
- ELECTRICAL — electronic ballast standard, rated Class P
- LABELS — UL listed as recessed fluorescent fixture suitable for dry or damp locations. CUL listing for Canada available — consult factory
- MOUNTING — NEMA type "G" standard. For flange installations, use the Drywall Framing Kit

FEATURES

- Precision reflector system results in superior performance
- Aluminum housing provides cooler operation
- Steel lamp retaining clips ensure no lamp clip breakage
- Multi-level switching capability
- Excellent lumen maintenance and high Color Rendering Index
- Improved vertical or horizontal footcandles over H.I.D.
- Instant on/instant re-strike requires no warm-up time, unlike traditional H.I.D. lighting
- Energy saving alternative to H.I.D.
- Quiet operation
- All parts painted after fabrication to facilitate installation, increase efficiency, and inhibit rusting

SUBMITTAL INFORMATION

MOUNTING
G = NEMA Type "G"
F = NEMA Type "F"
Use Drywall Framing Kit (DFK), sold separately

WIDTH
2 = 2 ft.

NOMINAL LENGTH
2 = 2 ft.

TT: EB defaults to instant start

DOOR FRAME
R = white regress aluminum
F = white flat aluminum

BALLAST TYPE (dependent on specified lamp type)
EB2/2 = (2) 2 lamp electronic ballast
EB2/2/1 = (2) 2 lamp & (1) 1 lamp electronic ballasts
EB2/2/2 = (3) 2 lamp electronic ballasts
EBTR2/2 = (2) 2 lamp electronic ballasts, rapid start

LUMINAIRE SERIES

MPG-G22-540TT-RA12187-OPTIONS-EB2/2/1-120

G = floating door

TOTAL LAMPS
4, 5, or 6

LAMP WATTAGE
40TT = 2′, 40 watt long twin tube
50TT = 2′, 50 watt long twin tube
55TT = 2′ 55 watt long twin tube

SHIELDING
A12187 = .187" nom. thk. #12 pattern acrylic prismatic lens
AT187 = .187" nom. thk. #12 pattern impact resistant lens
PC12187 = .187" nom. thk. clear prismatic polycarbonate lens
C73 = clear prismatic glass panel (flat door only)

WG11 = 11 Ga. wireguard, white powder coated
DFK2424 = Drywall Framing Kit, 24" x 24"

120 = 120V
277 = 277V

For more options, accessories, and product details, refer to Information Section

williams™

MP SERIES

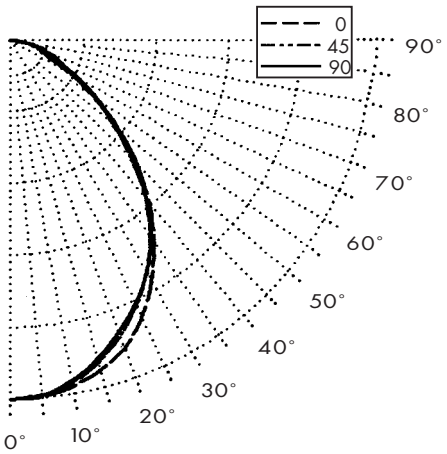
PHOTOMETRY INFORMATION

Williams Catalog #MPG-G22-540TT-RA12187
Test Report #10331.0, Dated 6/18/99

Lamp Type: FT40/2G11/835/RS
Lamp Quantity: 5

CANDLEPOWER DISTRIBUTION

VERT. ANG.	HORIZONTAL ANGLE 0	45	90	ZONAL LUMENS
0	5481.	5481.	5481.	
5	5457.	5432.	5441.	519.2
15	5207.	5086.	5029.	1444.3
25	4663.	4472.	4443.	2089.3
35	3768.	3672.	3691.	2318.6
45	2707.	2582.	2682.	2043.7
55	1582.	1521.	1628.	1407.0
65	838.	680.	858.	760.6
75	531.	395.	451.	456.5
85	123.	110.	109.	122.7



LUMEN SUMMARY

ZONE	LUMENS	% LAMP	% FIXTURE
0 - 30	4053.	25.7	36.3
0 - 40	6371.	40.5	57.1
0 - 60	9822.	62.4	88.0
0 - 90	11162.	70.9	100.0

TOTAL LUMINAIRE
OPTICAL **EFFICIENCY** = **70.9 %**
SPACING CRITERIA: ACROSS= 1.1 ALONG= 1.2

F40 long twin tube lamps = 3150 Lumens
F50 long twin tube lamps = 4000 Lumens (1.27 multiplier)
F55 long twin tube lamps = 4800 Lumens (1.52 multiplier)

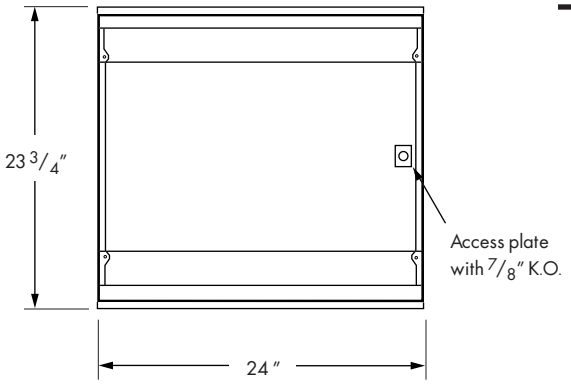
ZONAL CAVITY COEFFICIENTS

EFFECTIVE FLOOR CAVITY REFL. = .20

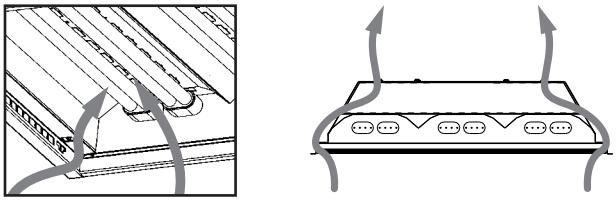
CEILING	.80			.70			.50		
WALL RCR	.70	.50	.30	.70	.50	.30	.50	.30	.10
0	.84	.84	.84	.82	.82	.82	.79	.79	.79
1	.79	.76	.73	.77	.74	.72	.71	.70	.68
2	.73	.68	.64	.71	.67	.63	.65	.61	.59
3	.68	.62	.57	.66	.60	.56	.58	.55	.51
4	.63	.55	.50	.61	.55	.50	.53	.49	.45
5	.58	.50	.44	.57	.49	.44	.48	.43	.40
6	.54	.45	.40	.52	.45	.39	.43	.39	.35
7	.50	.41	.35	.49	.41	.35	.40	.35	.31
8	.46	.37	.32	.45	.37	.31	.36	.31	.28
9	.43	.34	.28	.42	.33	.28	.32	.27	.24
10	.40	.31	.25	.39	.30	.25	.30	.25	.22

For 50 Watt lamps use CU multiplier of 0.933
For 55 Watt lamps use CU multiplier of 0.909

BACK VIEW



AIR FLOW FOR LONG LIFE



The housing of Series MP has been specially designed with more than 200 louvers and air vents to allow air flow through the fixture housing. Natural convection disperses heat and cools the ballasts and lamps, maximizing efficiency and optimizing ballast and lamp life. Series MP operates quieter and cooler and starts without delay while using less energy than traditional H.I.D. lighting.

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