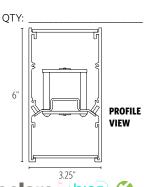
PROJECT NAME: \_





**FEATURES** 

- DUAL DIRECTION ILLUMINATION WITH ACRYLIC TOP AND BOTTOM LENSES
- FIXTURES CAN BE CLUSTERED TOGETHER TO CREATE LARGE SCALE INSTALLATIONS
- CUSTOMIZABLE SIZES AND SHAPES
- THICK WALL ALUMINUM EXTRUSION WITH MINIMAL FIXTURE CROSS SECTION SIZE
- AVAILABLE IN 80+ CRI AND 90+ CRI (R9>50)
- INTEGRAL DRIVERS













# **CATALOG CODES**



SPECIFY CATALOG CO	DE				
A	В	С	D		E
SERIES	HANGING SYSTEM	SIZE	DIFFUSER	F	:INISH*
TW1 TWIN	PIEM PENDANT WITH VERTICAL AIRCRAFT CABLES TO SEPARATE MOUNTING POINTS AND POWER CORD TO CANOPY  PIEE PENDANT WITH ANGLED AIRCRAFT CABLES AND POWER CORD TO COLLECTOR THEN SINGLE CENTER STEIT TO CANOPY  NOTE: PIEE ONLY AVAILABLE ON 72" SIZE AND SMALLER	48 60 72	MW MATTE WHITE	POWDER COAT FINISHES BKP BLACK BMP BRASS METALLIC BNP BRONZE BTP BLACK TEXTURED GRP GRAPHITE GLP GOLDTASTIC  PREMIUM METAL FINISHES BAL BRUSHED ALUMINUM	MWP MATTE WHITE SGP STEEL GRAY SMP SILVER METALLIC SWP SKY WHITE WTP WHITE TEXTURED

	F		G	Н	1	J
	LIGHT SOURCE		VOLTAGE	ОАН*	CONTROL	OPTIONS
LED OUTPUT LED1 LED2	COLOR TEMP (80+CRI) 27K 30K 35K 40K	COLOR TEMP (90+ CRI) 927K 930K 935K 940K	UNV 120-277	48 100 144 FOR PIEE: SPECIFY IN INCHES	DM1 0-10V DIMMING 1%	DUC DUAL CIRCUITING  BIOS BIOS SKYBLUE™ OR BIOS SKLYBLUE™ DYNAMIC LIGHT ENGINE**  MOD MODIFIED LUMINAIRE (CONTACT LOCAL REP)

Fixtures with P1EM hanging system, canopy will be MWP unless specified.

Fixtures with P1EE hanging system, canopy will match finish choice.

Power cord white unless specified.

UP TO 85 LM/W

		LUMENS AND WATTAGE CHART								
		24"	36"	48"	60"	72"	96"	120"		
LED1	LUMENS DELIVERED	5525	10200	12750	15300	19975	25925	33150		
LEDI	SYSTEM WATTAGE	65	120	150	180	235	305	390		
LED2	LUMENS DELIVERED	8075	13360	18700	22950	28900	38675	50150		
LEDZ	SYSTEM WATTAGE	95	160	220	270	340	455	590		

This chart was created for a 35K color temp. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Wattage and lumen data approx. pending LM-79 testing.

Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

# MODE NOTES COMMENTS

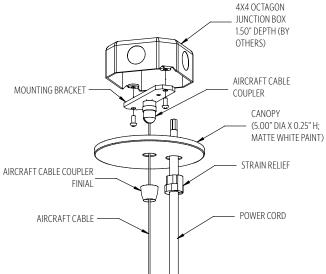
MODS, NOTES, & COMMENTS							

<sup>\*</sup>For Minimum OAH, see hanging systems details. P1EM will ship with one of three standard OAH's (48", 100" or 144") field adjustable to the desired height.

<sup>\*\*</sup>Contact factory for **BIOS SkyBlue**® or **BIOS SkyBlue**® **Dynamic** light engine and control options.

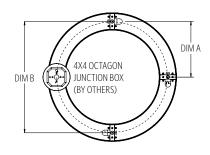




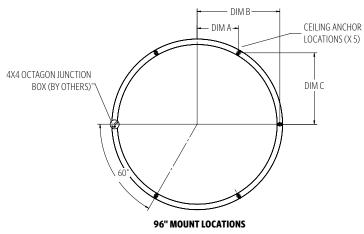


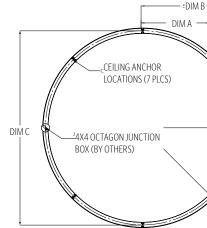
MOUNTING INFORMATION CHART								
LUMINAIRE DIAMETER	LUMINAIRE WEIGHT	MOUNTING DISTANCE DIM A	MOUNTING DISTANCE DIM B	MOUNTING DISTANCE DIM C	MOUNTING POINTS	MIN/MAX OAH		
24"	35 LBS	10.375"	Ø 20.75"'	-	4	12/144"		
36"	50 LBS	16.375"	Ø 32.75"	-	4	12/144"		
48"	65 LBS	22.375"'	Ø 44.75"	-	4	12/144"		
60"	80 LBS	28.375"	Ø 56.75"	-	4	12/144"		
72"	95 LBS	34.375"	Ø 68.75"	-	4	12/144"		
96"	110 LBS	23.188"	46.375"	40.125"	6	12/144"		
120"	125 LBS	41.25"	58.375"	116.75"	8	12/144"		

 $^{\star}$  P1EM ships with one of three OAH's (48", 100" or 144") and is field adjustable to the desired height

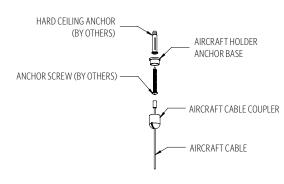


24 - 72" MOUNT LOCATIONS

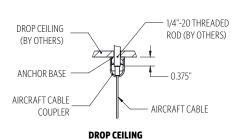


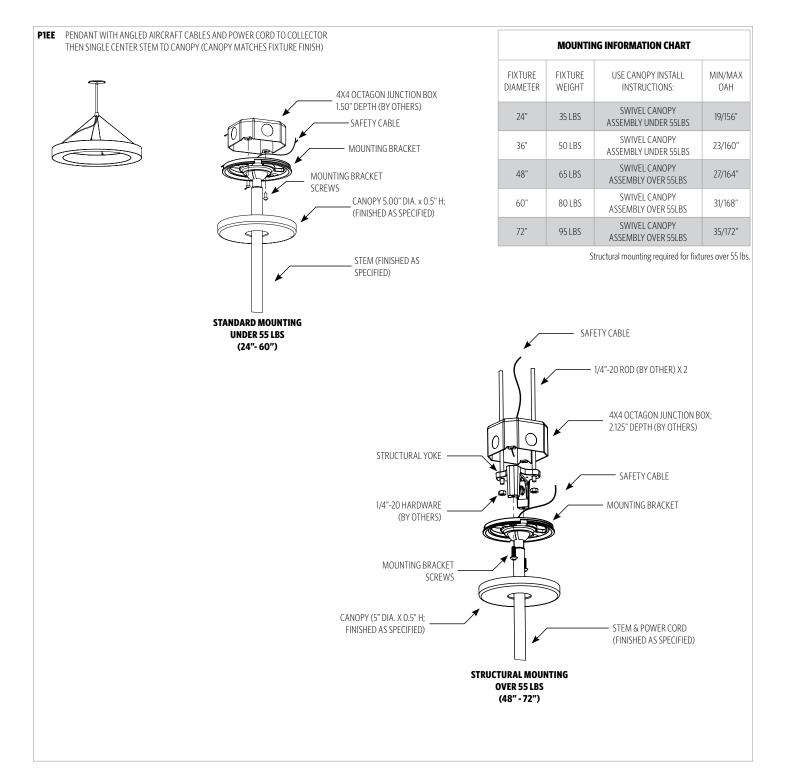


120" MOUNT LOCATIONS

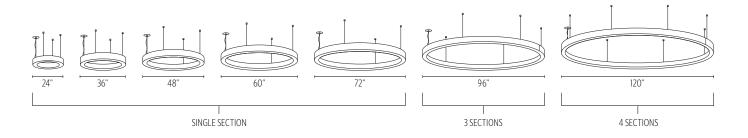


**HARD CEILING** 





# SIZE AND SECTIONS



DIFFUSER **FINISH** 

MW MATTE WHITE

# **METALLIC POWDER COAT FINISHES:**

GRAPHITE



SILVER





STEEL GRAY



GOLDTASTIC



BRASS



BNP **BRONZE** 

**PREMIUM METAL FINISHES:** 



BAL BRUSHED ALUMINUM

also available.

with any questions.

### **SOLID POWDER COAT FINISHES:**



SKY WHITE



WHITE



BLACK

**TEXTURED POWDER COAT FINISHES:** 



TEXTURED



TEXTURED

These colors are for reference only. Please be aware that colors may vary per monitor. Contact your local rep for finish samples or

RAL\*, Pantone\* or custom finishes are

# LIGHT SOURCE

		LUMENS AND WATTAGE CHART							
		24"	36"	48"	60"	72"	96"	120"	
LED1	LUMENS DELIVERED	5525	10200	12750	15300	19975	25925	33150	
LEDI	SYSTEM WATTAGE	65	120	150	180	235	305	390	
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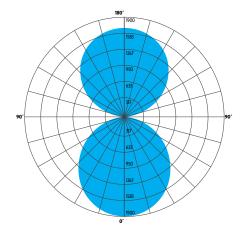
This chart was created for a 35K color temp. Multiply by 0.95 for 27k color temp, 0.97 for 30k color temp, and 1.03 for 40k color temp. Wattage and lumen data approx. pending LM-79 testing.

Values shown for 80+ CRI. For 90+ CRI lumens use 0.85 multiplier.

# PHOTOMETRY:

LUMINAIRE: TW1-P1EE-36-GW-MWP-LED2/35K-UNV

COLOR TEMP #: 3500K OUTPUT: 13360 EFFICACY: 86 LM/W TEST REPORT: TEST NO. 19984.0



STANDARD COLOR TEMPERATURE OPTIONS	CRI (RA)		
2700K	80+	90+	
3000K	80+	90+	
3500K	80+	90+	
4000K	80+	90+	

# **LUMEN MAINTENANCE**

REPORTED: L70 AT >60,000 HRS CALCULATED: L70 AT 181,000 HRS REPORTED: L90 AT 52,000 HRS CALCULATED: L90 AT 52,000 HRS

Derived from EPA TM-21 calculator. Based on typical conditions. Consult the factory for additional details

ZONE	LUMENS	% OF LUMINAIRE
0-30	1870	14%
0-60	5210	39%
0-90	6680	50%
90-180	6680	50%

# CONTROL

### DM1 0-10V DIMMING DOWN TO 1%

- 0-10V DIMMING
- 1% MINIMUM DIMMING LEVEL
- ELECTRONIC DRIVER
- POWER FACTOR > 0.9
- THD <20%</li>
- MIN AMBIENT OPERATING TEMPERATURE = -31°F
- FIELD REPLACEABLE

# **OPTIONS**

### **MODIFIED LUMINAIRE** MOD

LUMINAIRE IS MODIFIED FROM STANDARD OPTIONS. CONTACT LOCAL REP FOR MORE INFORMATION

### ULD **DAMP LABEL LUMINAIRE**

MAY BE USED IN A OUTDOOR AREA THAT IS PROTECTED FROM DIRECT CONTACT WITH WIND, RAIN, SNOW OR **EXCESSIVE MOISTURE** 

### BIOS

- BIOS SKYBLUE™ DYNAMIC LIGHT ENGINE IS DIMMABLE AND FEATURES A SIMPLE APPROACH TO CIRCADIAN LIGHTING CONTROLS
- WHEN PAIRED WITH THE BIOS BIO-DIMMING MODULE, IT OPERATES USING ANY SINGLE CHANNEL CONSTANT CURRENT (CC) LED DRIVER AND CAN BE USED WITH ANY STANDARD DIMMING INTERFACE/PROTOCOL (0-10V, ELV, DMX, WIRELESS) AND COULD WORK WITH EXISTING TWO-CHANNEL CONTROL SYSTEMS AS WELL.
- VISIT OCL.COM/BIOS FOR MORE INFORMATION

### **SPECIFICATIONS**

### CONSTRUCTION

- EXTRUDED ALUMINUM PROFILE
- ACRYLIC DIFFUSER CUT WITH LAP JOINT TO ELIMINATE DIODF VIFW
- THICK GAUGE STEEL INTERNAL BRACKETS
- HANGING SYSTEMS USE STEEL OR ALUMINUM CANOPIES WITH AIRCRAFT CABLE SUPPORTS
- HARDWARE IS STEEL OR STAINLESS STEEL
- 96" & 120" PROVIDED WITH HARDWARE FOR BOLTING SECTIONS TOGETHER

# **ELECTRICAL**

- DIMMING ELECTRONIC DRIVER(S), COMES STANDARD WITH 0-10V DOWN TO 1%
- LUTRON (LDE1) ECOSYSTEM 1% ALSO AVAILABLE
- OCL PROPRIETARY LED ARRAYS USE NICHIA 757 DIODES
- 80+ CRI = 80 RA, R9 > 0 (10-15 TYP.)
- 90+ CRI = 90 RA, R9 > 50
- FOR INTEGRAL DRIVERS: LUMINAIRE CONNECTS TO BUILDING SUPPLY (120V-277V 50/60HZ)
- FOR REMOTE DRIVERS: LUMINAIRE WIRE LEADS ARE LOW-VOLTAGE. THE WIRES SHOULD BE CONNECTED TO OCL PROVIDED REMOTE DRIVER ENCLOSURE ONLY! LIGHT OUTPUT
- LUMINAIRE PROVIDES APPROXIMATELY 50% DIRECT, 50% INDIRECT ILLUMINATION

## LISTING

ETL LISTED TO UL1598 FOR INDOOR, DRY LOCATION

### WARRANTY

5 YEAR; ALL ELECTRICAL COMPONENTS RETAIN THE MANUFACTURER'S WARRANTY

### **BUILD AMERICA, BUY AMERICA (BABA)**

 THIS PRODUCT MEETS THE GUILDELINES FOR THE BUILD AMERICA, BUY AMERICA ACT. SOME EXCLUSIONS APPLY, FOR MORE INFORMATION AND A FULL LIST OF ELIGIBLE SKUS, VISIT OCL.COM/BABA

### **SUSTAINABILITY**

- **DECLARE:** DECLARE IS AN INGREDIENT LABEL DISCLOSURE FOR BUILDING PRODUCTS THAT IS DESIGNED TO HELP SPECIFIERS QUICKLY IDENTIFY PRODUCTS THAT SUPPORT HUMAN AND ENVIRONMENTAL HEALTH. LEARN MORE AT OCL.COM/DECLARE
- THIS PRODUCT MEETS THE MATERIAL RESTRICTIONS OF ARTICLE 4 OF THE ROHS DIRECTIVE (2011/65/EU), INCLUDING COMMISSION DELEGATED DIRECTIVE 2015/863
- **BIOS** LIGHTING CONTRIBUTES TOWARD THE CIRCADIAN LIGHTING DESIGN FEATURE 54 UNDER THE WELL BUILDING STANDARD™ V1 AND FEATURE LO3 UNDER THE WELL BUILDING STANDARD V2

## **DECLARE**



## **DECLARE: PRODUCT TRANSPARENCY IN MANUFACTURING**

Declare is the only label that combines material transparency and the Red List. It distills complex chemical ingredient information into an easy to read label. Declare helps specifiers find Red List Free products, which are healthy for people, the environment, and communities.

A product's compliance with the LBC Red List is represented on the Declare® label by the product's Declaration Status. There are three Declaration

- **DECLARED (RLD)** products disclose 100% of ingredients present in the final product, but contain one or more Red List chemicals that are not covered by an approved exception.
- LBC RED LIST APPROVED (RLA) products disclose a minimum of 99% of ingredients present in the final product and meet the LBC Red List Imperative requirements through one or more approved
- LBC RED LIST FREE (RLF) products disclose 100% of ingredients present at or above 100 ppm (0.01%) in the final product and do not contain any Red List chemicals

Need more information? Visit ocl.com/declare to learn more...

# **COMMON MODIFICATIONS**

### WE'RE BUILT FOR OUT-OF-THE-BOX THINKERS.

Nearly 50% of OCL fixtures we manufacture have some type of modification. Here is a list of common modifications we frequently produce. Please contact the factory for modifications specific to your fixture or project.

Need some help? Simply send your questions to us at **OCL-Quotes@ocl.com** 

- BIOS, TUNABLE WHITE, WARM-DIM, & RGBW LIGHT SOURCES
- SPECIFIC LUMEN OUTPUT
- MODIFIED CLUSTERS OR CONFIGURATIONS / MULTI-DROP CANOPIES
- VARIOUS SHAPES, ARCS, AND CURVES FOR LINEAR PROFILES AND RINGS
- CEILING OR SURFACE MOUNTING
- LARGE SCALE MODIFICATIONS
- RAL, PANTONE, BRAND-SPECIFIC, RETIRED OCL COLOR, OR CUSTOM FINISHES







- EMERGENCY BATTERY BACKUP OR INVERTER OPTIONS
- REMOTE DRIVERS / EXTENDED DISTANCE REMOTE DRIVERS
- DIMMING TO 0.1% (DIM TO DARK)
- NON-STANDARD SIZES OR LENGTHS
- NON-STANDARD CANOPY, BODY AND/OR CORD COLORS
- SEISMIC AND/OR ANTI-SWAY SYSTEMS
- RIGID STEMS
- MODIFIED OVERALL HEIGHTS (LONGER OR SHORTER OAH)
- UPLIGHT ADDITIONS
- LASER ETCHING, ENGRAVING, AND CUTOUTS

The drawings and specifications and ideas, designs and arrangements represented on these drawings are and shall remain the property of The Original Cast Lighting (OCL Architectural Lighting) and no part thereof shall be copied, disclosed, to others or used in conjunction with any work or project other than the specified project for which they have been prepared and developed, without written consent of OCL. Visual contact with these plans or specifications shall constitute conclusive evidence of acceptance of these restrictions. All specifications and information subject to change without notice.



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