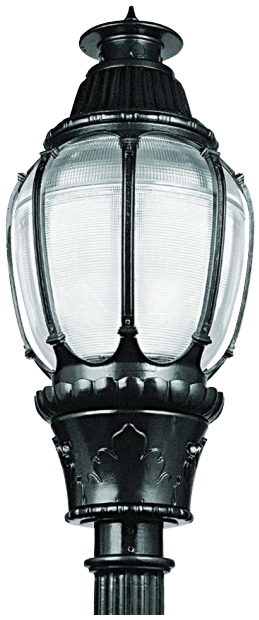
HOLOPHANE®
LEADER IN LIGHTING SOLUTIONS

Catalog Number	
Notes	Type

MDLE2

Madeira® LED



As shown: Acorn style with replica chimney, ornamental crown, and decorative ribs

BAA BABA

SPECIFICATIONS

General Description

The Madeira Luminaire is styled to replicate the elegant Spanish style luminaires that lighted streets in the first half of the 20th century. Designed for superior light control, ease of installation, and maintenance, the Madeira has a precision prismatic glass optical system for true street lighting performance as well as beauty.

Optical Assembly

The optical assembly is a precisely molded thermal resistant borosilicate glass reflector and retractor. The upper portion of this system incorporates a series of reflecting prisms that redirect over 50% of the upward light into the controlling retractor while allowing a soft uplight component to define the traditional acorn shape. The lower portion uses precisely molded refracting prisms to control the distribution of light to maximize utilization, uniformity, and luminaire spacing. The top of this assembly is a removable decorative aluminum cover with a replica chimney finial for entry into the lamp chamber. A total of eight decorative ribs surround the prismatic glass reflector and refractor. Three unique optical assemblies are available, designed for IES type III, type IV, and type V distribution.

Luminaire Housing

A decorative leaf style cast aluminum luminaire housing cradles the optical assembly and provides an enclosure for the plug-in electrical module. The three station incoming line terminal block is prewired to a six conductor receptacle for ease in connecting the electrical module. A slipfitter will accept a 3 inch high by 2-7/8 inch to 3-1/8 inch O.D. pipe tenon.

Electrical Module / Luminaire Housing Door

The decorative leaf style cast aluminum housing door contains the ballast components and is held in place by two captive 1/4-20 stainless steel screws. A matching six conductor plug connects to the receptacle in the luminaire housing to complete the wiring.

Electrical Module

The electronic components are mounted on a steel plate that is removable with minimum use of tools. A matching six conductor plug connects to the receptacle in the luminaire housing to complete the wiring.

Electronic Driver

AS drivers are programmable dimmable drivers, with 0-10V control leads and AH drivers are dimmable (0-10V) drivers .

Finish/ Material

All castings utilize aluminum for maximum corrosion resistance and all exposed hardware is corrosion resistant.
The finish shall:

- Utilize a polyester power coat paint to ensure maximum durability
- Rigorous multi-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117) on standard and RAL finish options.
- RAL (RALxxxxSDCR) paint colors are Super Durable Corrosion Resistant, 80% gloss.

Installation

Refer to the instruction manual provided with each luminaire as to the specific method of wiring and mounting the luminaire.

Government Procurement

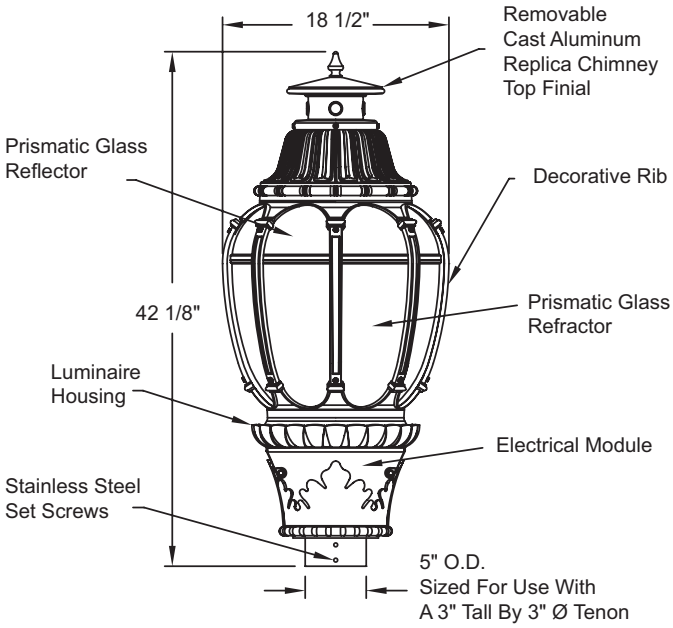
BAA – Buy America(n) Act: Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations.
BABA – Build America Buy America: Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act.
Please refer to www.acuitybrands.com/resources/buy-american for additional information.

Warranty

5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

DIMENSIONAL DATA



Maximum Weight - 100 lbs
Maximum Effective Projected Area: 2.7 sq. ft.

ORDERING INFORMATION

EXAMPLE: MDLE2 P30 30K MVOLT GL3 BK RBK CH FBK

Housing Style		LED performance package[1]		Color temperature		Voltage		Optics	
MDLE2	Madeira LED Acorn Style Luminaire	P30	LED Performance Package	30K	3000 CCT	MVOLT	Auto-sensing (120-277V) 50/60 HZ	GL3	Type 3, Glass refractor
		P40	LED Performance Package	40K	4000 CCT			GL4	Type 4, Glass refractor
		NOTE						GL5	Type 5, Glass refractor
		1 See performance data table on page 3 for details							

Housing Color		Rib Color		Finial		Finial Color	
BK	Black	RBK	Black	CH	Chimney	FBK	Black
BZ	Bronze	RBZ	Bronze	BD	Bud	FBZ	Bronze
CMC	Custom Match Color	RCMC	Custom Match Color	OR	Ornate	FCMC	Custom Match Color
CTBS	STD Finish, TBD	RCTBS	STD Finish, TBD	SK	Spike	FCTBS	STD Finish, TBD
GH	Graphite	RGH	Graphite			FGH	Graphite
GN	Green	RGN	Green			FGN	Green
GR	Grey	RGR	Grey			FGR	Grey
RALxxxxSDCR	RAL Super Durable Corrision Resistant, 80% Gloss Paint, replace xxxx with RAL number.	RRALxxxxSDCR	RAL Super Durable Corrision Resistant, 80% Gloss Paint, replace xxxx with RAL number.			FRALxxxxSDCR	RAL Super Durable Corrision Resistant, 80% Gloss Paint, replace xxxx with RAL number.
WH	White	RWH	White			FWH	White

Options

Control Options

A0	Adjustable output dimming (not available with options "PS", "PI", or any other dimming option)
FPDxx	Factory programmed driver (XX = percentage of lumens or watts, see page 3)
PR12	120V Button style photocontrol
PR202427	208 - 277V button style photocontrol

NOTES
For compatable options, refer to the option matrix on page 4

NEMA Label Options

NL1X1	1" x 1" ANSI wattage label
NL2X2	2" x 2" ANSI wattage label

Prewire Lead Options

L1H	1.5' of prewire leads
L03	3' of prewire leads
L10	10' of prewire leads
L20	20' of prewire leads
L25	25' of prewire leads
L30	30' of prewire leads

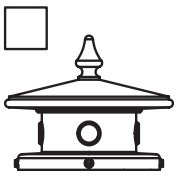
Accessories: *Order as separate catalog number.*

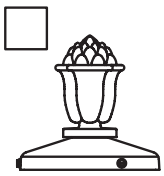
House Side Shield

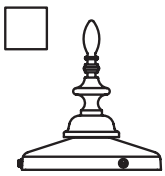
WLEDHSS90	House side shield, 90 degree
WLEDHSS12	House side shield, 120 degree
WLEDHSS18	House side shield, 180 degree

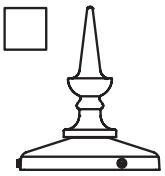
MARK APPROPRIATE BOX FOR TRIM OPTIONS

FINIALS


Chimney (CH)


Bud (BU)


Ornate (OR)


Spike (SP)

PERFORMANCE DATA

LED Package	Distribution	System Watts	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P30	3	59	5,240	89	1	5	4	5,833	99	2	5	4
	4		5,238	89	2	4	4	5,831	99	2	5	4
	5		5,580	95	3	4	4	6,212	105	3	4	4
P40	3	77	6,541	85	2	5	5	7,282	95	2	5	5
	4		6,538	85	2	5	4	7,279	95	2	5	5
	5		6,964	90	3	5	4	7,754	101	3	5	5

FPDxx DATA TABLE

FPDxx Setting	Wattage	P30 30K			P30 40K		
		3	4	5	3	4	5
Standard	60	5,240	5,238	5,580	5,833	5,831	6,212
FPD95	57	5,108	5,106	5,439	5,686	5,684	6,055
FPD90	54	4,958	4,957	5,280	5,520	5,518	5,878
FPD85	51	4,793	4,792	5,104	5,336	5,335	5,682
FPD80	48	4,613	4,611	4,912	5,135	5,133	5,469
FPD75	45	4,417	4,415	4,703	4,917	4,915	5,136

FPDxx Setting	Wattage	P40 30K			P40 40K		
		3	4	5	3	4	5
Standard	80	6,541	6,538	6,964	7,282	7,279	7,754
FPD95	76	6,320	6,317	6,729	7,036	7,033	7,492
FPD90	72	6,106	6,103	6,503	6,789	6,795	7,240
FPD85	6	5,900	5,897	6,283	6,568	6,566	6,995
FPD80	54	5,701	5,698	6,071	6,347	6,344	6,760

Lumen Ambient Temperature (LAT) Multipliers
Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Average Lumen Ambient Temperature (LAT) Multipliers			
°C	°F	Lumen Multiplier	LED Packages
0	32	1.06	P10, P20, P30, P40, P50
5	41	1.05	
10	50	1.04	
15	59	1.03	
20	68	1.01	
25	**77**	**1.00**	
30	86	0.99	
35	95	0.97	
40	104	0.96	

Projected LED Lumen Maintenance
Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Lumen Maintenance - LLD (same for all LED packages)							
Hours	0	25,000	36,000	50,000	60,000	*75,000*	*100,000*
Factor	1	0.93	0.93	0.92	0.91	*0.9*	*0.89*

The italicized data is extrapolated beyond the TM-21 standard.

E = (LM) x (CU) x (LAT) x (LLD)
LM and CU are obtained from published photometry.

OPTIONS MATRIX

Parameters		Selected Option (start here)			
		A0	FPDxx	PR12	PR202427
LED Performance Package	P30	*Y*	*Y*	*Y*	*Y*
	P40	*Y*	*Y*	*Y*	*Y*
Compatible Options	A0		*Y*	*Y*	*Y*
	FPDxx	*Y*		*Y*	*Y*
	P12	*Y*	*Y*		**N**
	PR202427	*Y*	*Y*	**N**	

N = Combination not available
Y = Valid Option Combination

	P30	P40
FPD95	*Y*	*Y*
FPD90	*Y*	*Y*
FPD85	*Y*	*Y*
FPD80	*Y*	*Y*
FPD75	*Y*	**N**