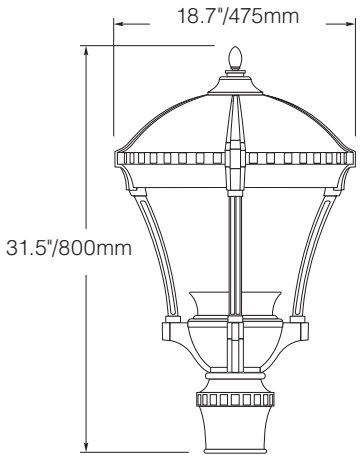
Providence® MicroCore™ – Medium Housing PROV

TYPE

FEATURES

- DLC Qualified
- Reliable, uniform, glare free illumination
- Types II, III, IV, V and custom distributions
- 3000K, 4200K, 5100K CCT
- 0-10V dimming ready
- Integral surge suppression
- LifeShield™ thermal protection
- 13 standard powder coat finishes

SPECIFICATIONS



- Diameter: 18.7" / 475 mm
- Height: 31.5" / 800 mm
- Weight: 29 lbs
- EPA: 0.96
- IP Rating: 65

ORDERING INFORMATION

MODEL	1	2	3	4	5	6	7
PROV							
	Light Engine	CCT	Drive Current	Color	Options	Controls	Mounting

1. LIGHT ENGINE

MicroCore *Precision aimed optics*

- ☐ T2-32LED
- ☐ T3-32LED
- ☐ T4-32LED
- ☐ T5-32LED
- ☐ TL-32LED
- ☐ TR-32LED

2. COLOR TEMPERATURE

☐ 3K ☐ 4K ☐ 5K

3. DRIVE CURRENT

☐ 700 ☐ 450

4. COLOR

- ☐ AWT
- ☐ BLK
- ☐ MTB
- ☐ DGN
- ☐ DBZ
- ☐ WRZ
- ☐ BRM
- ☐ VBL
- ☐ CRT
- ☐ MAL
- ☐ MDG
- ☐ ATG
- ☐ LGY
- ☐ RAL/PREMIUM COLOR
- ☐ CUSTOM COLOR

5. OPTIONS

- ☐ SPK *(Decorative spike)*
- ☐ BPS *(Struts painted brass)*
- ☐ LDL *(Lightly diffused lens)*
- ☐ CLR *(Clear flat lens)*
- ☐ HSS *(House side shield)*
- ☐ PFN *(Finial painted brass)*
- ☐ EPA-C *(Egress-Contemporary)*
- ☐ EPA-T *(Egress-Traditional)*

6. CONTROL

- ☐ WIH (*Integral HBA w iHUBB IFM transceiver and antenna)*
- ☐ SCP (Programmable motion control, factory default is 50%, requires pole)
- ☐ PCA-C *(Rotatable photocell-Contemporary)*
- ☐ PCA-T *(Rotatable photocell-Traditional)*

7. MOUNTING

Standard configuration slips over a 4" DIA open top pole or may choose one.

Wall Mount Arm

- ☐ WMA7
- ☐ WMA55
- ☐ WMA56
- ☐ WMA57
- ☐ WMA9U
- ☐ WMA22U

Pole Mount Arm

- ☐ TRA5U-4
- ☐ TRA6U-4
- ☐ TRA55
- ☐ TRA55-5
- ☐ TRA56
- ☐ TRA57-4
- ☐ TRA57-5
- ☐ SLA1
- ☐ SLA1-2
- ☐ SLA8U-4
- ☐ SLA8U-5
- ☐ SLA22U-4
- ☐ SLA22U-5

Pier Mount

☐ PM1 ☐ PM2 ☐ PM3

Option

☐ AD5

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LUMINAIRE PERFORMANCE

Optical System	Secondary Lens or Shield	Distribution	Ordering Code: Light Engine	3K: Delivered Lumens	3K: Efficacy (Lm/W)	3K: BUG Rating B	3K: BUG Rating U	3K: BUG Rating G	4K: Delivered Lumens	4K: Efficafcy (Lm/W)	4K: BUG Rating B	4K: BUG Rating U	4K: BUG Rating G	5K: Delivered Lumens	5K: Efficafcy (Lm/W)	5K: BUG Rating B	5K: BUG Rating U	5K: BUG Rating G	Drive Current	System Watts
MicroCore	No Lens (Standard)	TYPE 2	**T2-32LED**	3796	51	1	0	2	5013	67	2	0	2	5449	73	2	0	3	**700**	75
		TYPE 3	**T3-32LED**	3925	52	1	0	2	5183	69	1	0	3	5633	75	1	0	3		
		TYPE 4	**T4-32LED**	3740	50	0	0	1	4953	66	1	0	2	5375	72	1	0	2		
		TYPE 5	**T5-32LED**	3814	51	3	0	2	5058	67	3	0	2	5497	73	3	0	2		
		45° Left	**TL-32LED**	3887	52	1	0	1	4649	62	1	0	2	5115	68	1	0	2		
		45° Right	**TR-32LED**	3887	52	1	0	1	4649	62	1	0	2	5115	68	1	0	2		
	HSS	TYPE 4	**T4-32LED**	2726	36	0	0	2	3663	49	0	0	2	3911	52	0	0	2		
	No Lens (Standard)	TYPE 2	**T2-32LED**	2429	51	1	0	2	3208	67	1	0	2	3497	73	1	0	2	**450**	48
		TYPE 3	**T3-32LED**	2512	52	1	0	2	3317	69	1	0	2	3605	75	1	0	2		
		TYPE 4	**T4-32LED**	2394	50	0	0	1	3170	66	0	0	1	3440	72	0	0	1		
		TYPE 5	**T5-32LED**	2441	51	2	0	1	3237	67	2	0	2	3518	73	2	0	2		
		45° Left	**TL-32LED**	2488	52	0	0	1	2976	62	1	0	1	3273	68	1	0	1		
		45° Right	**TR-32LED**	2488	52	0	0	1	2976	62	1	0	1	3273	68	1	0	1		
	HSS	TYPE 4	**T4-32LED**	1745	36	0	0	1	2344	49	0	0	1	2503	52	0	0	2		

* DesignLights Consortium® Qualified Product

ELECTRICAL CHARACTERISTICS

Optical System	Ordering Code		Driver: LED Drive mA	Driver: System Watts	Driver: Line Voltage VAC	Driver: Line Voltage HZ	Driver: Amps AC 120	Driver: Amps AC 277	Driver: Min. Power Factor	Driver: Max THD (%)	Driver: Operating Temp. Range	Dimming: Dimming Range	Dimming: Source current out of 0-10V purple wire Min	Dimming: Source current out of 0-10V purple wire Typical	Dimming: Source current out of 0-10V purple wire Max	Dimming: Absolute voltage range on 0-10V (+) purple wire Min	Dimming: Absolute voltage range on 0-10V (+) purple wire Typical	Dimming: Absolute voltage range on 0-10V (+) purple wire Max
MicroCore	32LED	700	700	75	120-277	50/60	0.6	0.3	≥.9	20	-30°C TO +40°C	10% TO 100%	0 MA	-	2 MA	-2.0 V	-	+15 V
		450	450	48			0.4	0.2										

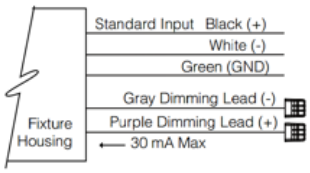
LED COLOR

Consult factory for Amber, Turtle Friendly, Gulf Coast and Observatory applications.

	Ordering Code 3K	Ordering Code 4K	Ordering Code 5K
CCT Average	3000K	4200K	5100K
CCT Range	2800K – 3175K	3800K – 4600K	4600K – 5600K
CRI Minimum	≥ 80	≥ 70	≥ 70

WIRING LEADS

Luminaires not configured with wiHUBB or photo-control shall be provided with 0-10 purple and gray dimming leads.



TM-21 LIFETIME CALCULATION

Optical System	Ordering Code	Ambient Environment °C	Projected Lumen Maintenance (% vs. Khrs) 15	25	50	TM-21* 60	100	Reported L70
MicroCore	**32LED**	15	93	91	87	84	78	>60Khrs
		25	93	91	87	85	78	
		40	93	91	87	85	78	

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SPECIFICATIONS

HOUSING

- Luminaire shall have discrete optical and gear compartments that do not share any physical housings.
- All housing components shall be die-cast aluminum, sealed with continuous silicone rubber gaskets.
- Standard configurations do not require a flat lens, optional lenses shall be tempered glass
- All internal and external hardware shall be stainless steel.
- Optical bezel finish shall match the luminaire housing.

OPTICAL

- Patent pending MicroCore™ LED modules shall independently aim each light emitting diode (LED) in both horizontal rotation and vertical tilt angle.
- LEDs shall be mounted to a metal printed circuit board assembly (PCBA) with a uniform conformal coating over the panel surface and electrical features.
- LED optics shall be clear injection molded PMMA acrylic.
- MicroCore™ PCBA and optic shall be sealed to a die-cast anodized aluminum heat sink with an injection molded silicone rubber gasket. IP66.
- Type 4 distribution with optional House Side Shield not available with clear or diffused glass lenses. Factory installed House Side Shield is optimized for Type 4 distribution and not recommended for use with Type 2 or 3 distribution and not available with type 5 distribution.

ELECTRICAL

- Luminaires shall have integral surge protection that shall be U.L. recognized and have a surge current rating of 10,000 Amps using the industry standard 8/20uSec wave and surge rating of 372J.
- Drivers shall be U.L recognized with an inrush current maximum of <20.0 Amps maximum at 230VAC.
- Drivers shall not be compatible with current sourcing dimmers, consult factory for current list of known compatible dimming systems, approved dimmers include Lutron Diva AVTV, Lutron Nova NFTV and NTFTV.
- LifeShield™ shall be provided with all configurations for added protection in the event of abnormally excessive high ambient temperature conditions.

CONTROLS

- wiHUBB® In-fixture Module shall operate at 900 MHz in a self-healing mesh network, luminaires configured with wiHUBB® shall be required to be commissioned on site with a wiHUBB® access point.

PHOTOCELL / EGRESS ADAPTERS

- Adapter(s) shall slip over a 4"/100mm DIA. pole with the luminaire or arm slipping over the adapter to add a total of 4.5"/114mm to the overall height. Adapter(s) shall be prewired, independently rotatable 359°, and have a cast access cover with an integral lens and lanyard.
- Photocell adapter shall include an internal twist lock receptacle. Photocell by others.
- Egress adapter shall require an auxiliary 120 volt supply for operation of an integral MR16 lamp in the event of emergency. The lamp may be aimed and locked into position with an adjustment range of 15°-45°. Adapter shall have a socket that accepts miniature bi-pin MR16 lamps up to 50 watts, lamp by others.

SERVICING

- Luminaire shall have tool-less service access to the gear compartment. Driver and surge suppressor shall be mounted to a prewired tray with quick disconnects that may be removed from the gear compartment.

ARM MOUNTING

- Luminaire shall slip over mounting arm and secured with three stainless steel 5/16-18 set screws.

FINISH

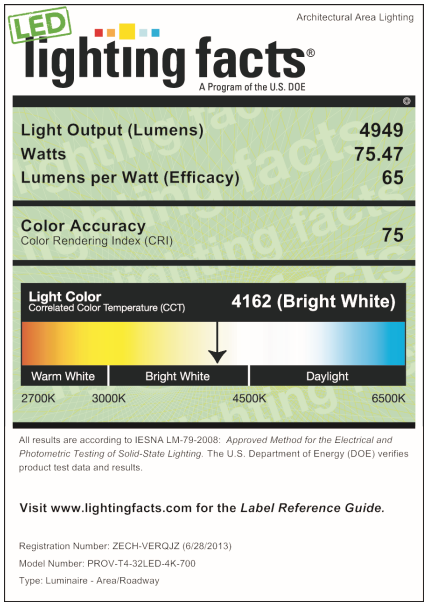
- Luminaire finish shall consist of a five stage pretreatment regimen with a polymer primer sealer, oven dry off, and top coated with a thermoset super TGIC polyester powder coat finish.
- Luminaire finish shall meet the AAMA 605.2 performance specification which includes passing a 3000 hour salt spray test for corrosion resistance.

CERTIFICATION

- Luminaire shall be listed with ETL for outdoor, wet location use, UL1598, UL 8750 and Canadian CSA Std. C22.2 no.250.

WARRANTY / TERMS AND CONDITIONS OF SALE

Download:
http://www.hubbelllighting.com/resources/warranty/



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