

APPENDIX– LIGHT FIXTURE CUT SHEETS

Petrolux® LED

Wet Location for Demanding Environments



DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

Catalog Number

Notes

Type

Description

For demanding environments where dust, dirt and moisture are a concern.

Optics

- Prismatic borosilicate glass directs light where needed and reduces harsh glare.
- Polycarbonate lens available for those applications requiring non-glass options.
- Three distributions (Type 5 low angle, Type 5 high angle, and Type 1 long and narrow) available to maximize versatility.
- Highly engineered LED system ensures superior uniformity and maximizes spacing.

Electrical

- 10kV/10kA surge protection is standard.
- 0-10V dimming driver is standard.
- CRI > 70 (nominal) is standard.
- 3000K, 4000K or 5000K CCT available.
- Fault-tolerant LED light engine continues to provide light even in the failure of one LED.

Mechanical

- Robust cast aluminum housing with low copper content (0.6% CU content) withstands harsh or hostile environments.
- Universal mount top cover (ceiling/pendant) is standard. Optional universal arm available for wall/stanchion. Other mountings include gasketed hook and yoke mount.
- Precise number of fins dissipate maximum amount of heat and achieve up to 131°F (55°C) ambient rating.

Listings

- UL 1598 Listed for use in wet locations
- IP66 rated

Warranty

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_Conditions.aspx

Actual performance may differ as a result of end-user environment and application.

Actual wattage may differ by +/- 5% when operating between 120-277V +/- 10%.

Typical Applications

- Petroleum refineries
- Ethanol facilities
- Chemical plants
- Power plants
- Textile mills
- Water and wastewater treatment facilities
- Parking garages
- Tunnels

Dimensions: Inches (millimeters) unless otherwise noted.

Diameter: 14.76 (375)
Depth: 13.57 (345)
Weight (5,000 -10,000 lumens): 31-38 lbs. (14-17 kg)
Weight (12,000 -18,000 lumens): 38-45 lbs. (17-20 kg)

ORDERING INFORMATION

Example: PLED2 05L 5K AS UN NA G L5H

Series		Lumens ¹	Color temperature		Voltage		Mounting		Cord length			
PLED2	05L	5000 lumens	3K	3000K CCT	AS	Auto sensing (120-277)	AH	Auto sensing (347/480)	UN	Universal ²	NA	No cord
	08L	8000 lumens	4K	4000K CCT	12	120V	34	347V	GH	Gasketed hook	03	3 ft cord with watertight plug ⁴
	10L	10,000 lumens	5K	5000K CCT	20	208V	48	480V	YK-0	0° yoke mount bracket ³	06	6 ft cord with watertight plug ⁴
	12L	12,000 lumens			24	240V			YK-45	45° yoke mount bracket ³	10	10 ft cord with watertight plug ⁴
	15L	15,000 lumens			27	277V						
	18L	18,000 lumens										

Finish		Optics		Options							
W	White	L5	Type 5, low angle, glass	BP	Button style photocontrol ⁶			DE	ROAM® concierge dimming control ¹⁴		
G	Gray	L5FR	Type 5, low angle, glass frosted	EG	Ingress/egress marker decal			VE	ROAMVIEW™ dimming control ¹⁴		
CRW	Corrosion-resistant white	L5H	Type 5, high angle, glass	F1	Single fusing ⁷			AXA10	XPoint Wireless enabled ¹⁵		
CRG	Corrosion-resistant gray	L5HFR	Type 5, high angle, glass frosted	F2	Double fusing ⁸			OS	Occupancy sensor on/off wet listed ¹⁶		
		L1	Type 1, long and narrow, glass ⁵	GD	Optic guard			MSI6NWL	Occupancy sensor on/off ¹⁷		
		L1FR	Type 1, long and narrow, glass frosted ⁵	SH	Uplight shield			MSI62LOVWL	On/off/dimming - no photocell occupancy sensor ¹⁸		
		P5	Type 5, low angle, polycarbonate	SP	Sample pack for ground transport			MSI62LOVWL DSCNWL	On/off/dimming - with photocell occupancy sensor ¹⁹		
		P5H	Type 5, high angle, polycarbonate	PER45	NEMA twistlock receptacle 45° mounting ⁹			MSI62XAWL DSCXAWL	XPoint Wireless enabled with photocell and occupancy sensor ²⁰		
		P1	Type 1, long and narrow, polycarbonate ⁵	PCS	DTL solid state photo control. AS, 120-277V ¹⁰						
				P34	DTL solid state photo control, 347V ¹¹						
				P48	DTL solid state photo control, 480V ¹²						
				PSC	Shorting cap ¹³						

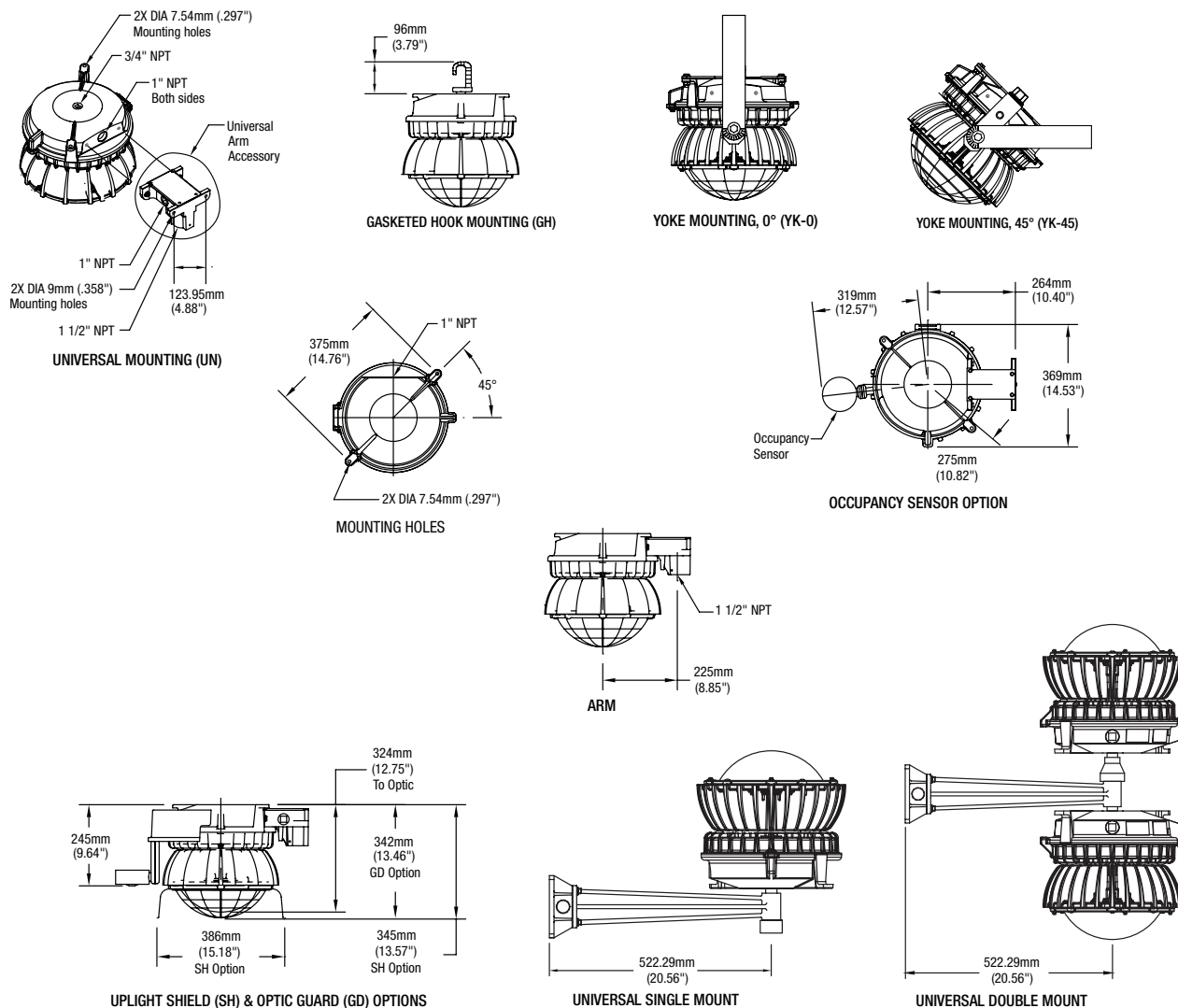
For footnotes, see page 2.

ORDERING INFORMATION (cont.)

Accessories: Order as separate catalog number.					
09189-* SUB	Safety chain kit (*= 2, 3 feet of chain)	P3US-WH	Universal mount arm, white	P3US-CRG	Universal mount arm, corrosion-resistant gray
PLEDMI3502	Thread sealant (order quantity 1 per luminaire)	P3US-GR	Universal mount arm, gray	07233-1	Single luminaire arm for one universal mount unit.
PLEDGD	Optic guard	P3US-CRW	Universal mount arm, corrosion-resistant white	07233-2	Double luminaire arm for two universal mount units.

- Notes**
- Nominal lumens.
 - Ceiling/pendant, order P3US arm for wall/stanchion.
 - Includes all necessary brackets and mounting accessories; does not include installation mounting hardware.
 - Available with GH mounting only. Must specify 12, 20, 24 or 27 voltage.
 - N/A with 18L.
 - Specify voltage 12, 20, 24, 27 or 34.
 - Specify voltage 12, 24, 27 or 34.
 - Specify voltage 20, 24 or 48.
 - N/A with BP, AXA10 or Occ sensors. Must specify YK-45. PER or PER45 can be ordered with or without ROAM DE or VE option. PER and PER45 ship unattached, wired in field.
 - Available AS, 12, 20, 24, 27 voltages. Available with PER and PER45 options only. Shipped in carton with unit.
 - Available 347 volt only. Available with PER and PER45 options only. Shipped in carton with unit.
 - Available 480 volt only. Available with PER and PER45 options only. Shipped in carton with unit.
 - Available with PER and PER45 options only. Shipped in carton with unit.
 - N/A with BP, AXA10 or Occ sensors. Specifies a ROAM® dimming enabled fixture with a dimming control module factory installed PER or PER45 option required. Additional hardware and services required for ROAM® deployment must be purchased separately. N/A with 15L and 18L. N/A with AH, 34 and 48 voltages. Available 40C maximum ambient only.
 - Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, MSI6XAWL DSCXAWL, OS options. Wet Location Listed, 35C maximum ambient. Xpoint Brand control.
 - Available 12, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, AXA10, MSI6X-AWL DSCXAWL options. Wet Location Listed. (WattStopper)HB350W.
 - Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL, OS options. Wet Location Listed, 40C maximum ambient. SensorSwitch Brand sensor.
 - Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL DSCNWL, AXA10, MSI6XAWL DSCXAWL, OS options. Wet Location Listed, 40C maximum ambient. SensorSwitch Brand sensor.
 - Available AS, 12, 20, 24, 27 voltage codes. Not available with SH, BP, PER, PER45, DE, VE, MSI6NWL, MSI62LOVWL, MSI62LOVWL DSCNWL, AXA10, OS options. Wet Location Listed, 40C maximum ambient. Xpoint Brand sensor.

DIMENSIONAL DATA



OPERATIONAL DATA
Operating Characteristics¹

Package	Ambient Rating (120V - 277V)	Ambient Rating (347V / 480V)	Distribution	Delivered Lumens 5000K CCT @25°C ²	Delivered Lumens 4000K CCT @25°C ²	Wattage	LPW @ 5000K
PLED2 05L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	L5	5,330	5,093	50	107
			L5H	4,546	4,344	50	91
			L1	4,397	4,202	50	88
			P5	4,115	3,933	50	82
			P5H	3,529	3,372	50	71
			P1	3,472	3,319	50	69
PLED2 08L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	L5	7,508	7,175	74	101
			L5H	6,404	6,120	74	87
			L1	6,196	5,921	74	84
			P5	5,798	5,540	74	78
			P5H	4,971	4,750	74	67
			P1	4,893	4,676	74	66
PLED2 10L	-40°F to 131°F (-40°C to 55°C)	-40°F to 104°F (-40°C to 40°C)	L5	9,942	9,500	98	101
			L5H	8,480	8,104	98	86
			L1	8,204	7,841	98	83
			P5	7,285	6,691	98	74
			P5H	6,246	5,969	98	64
			P1	6,147	5,875	98	63
PLED2 12L	-40°F to 122°F (-40°C to 50°C)	-40°F to 95°F (-40°C to 35°C)	L5	12,757	12,191	129	98
			L5H	10,542	10,074	129	81
			L1	10,381	9,920	129	80
			P5	9,216	8,807	129	69
			P5H	7,903	7,552	129	59
			P1	7,777	7,433	129	58
PLED2 15L	-40°F to 113°F (-40°C to 45°C)	-40°F to 95°F (-40°C to 35°C)	L5	15,977	15,268	165	96
			L5H	13,500	12,900	165	82
			L1	12,841	12,271	165	78
			P5	11,402	10,896	165	69
			P5H	9,776	9,342	165	59
			P1	9,621	9,195	165	58
PLED2 18L	-40°F to 104°F (-40°C to 40°C)	-40°F to 86°F (-40°C to 30°C)	L5	18,104	18,235	195	93
			L5H	16,103	15,388	195	78
			P5	14,290	13,655	195	73
			P5H	12,252	11,709	195	63

Projected Lumen Maintenance (TM-21)³

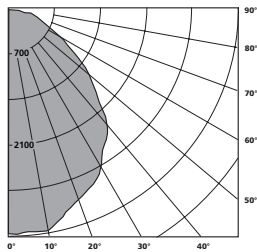
Package ⁴	0 Hours	15,000 Hours	30,000 Hours	45,000 Hours	60,000 Hours	100,000 Hours
PLED2 05L	1.0	0.96	0.94	0.93	0.91	0.88
PLED2 08L	1.0	0.96	0.94	0.93	0.91	0.88
PLED2 10L	1.0	0.96	0.94	0.93	0.91	0.88
PLED2 12L	1.0	0.95	0.93	0.91	0.90	0.85
PLED2 15L	1.0	0.95	0.93	0.91	0.90	0.85
PLED2 18L	1.0	0.95	0.93	0.91	0.90	0.85

Notes

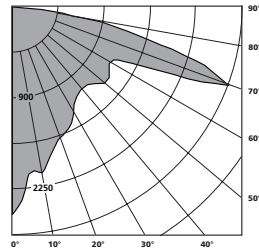
- 1 Adding BP, PER, PER45, DE and VE options results in a max. ambient of 40°C.
- 2 Absolute photometry calculated in accordance with IESNA LM-79-08.
- 3 Calculated using data collected according to LM-80 and represents lumen maintenance of the LED package.
- 4 Project lumen maintenance factors at max. ambient temperature per lumen package.

DISTRIBUTION DATA

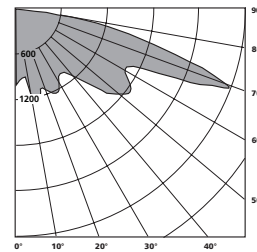
Petrolux LED Type 5 Low Angle



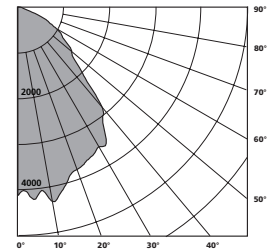
Petrolux LED Type 5 High Angle



Petrolux LED Type 1

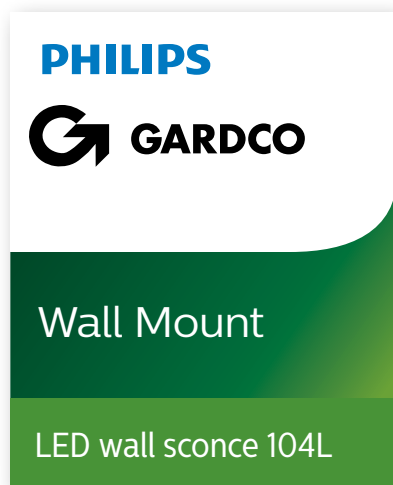


Petrolux LED Type 5-0% Uplight



CONTROLS

MSI6NDL, MSI62LOVDL, MSI62LOVDL DSCNDL. AXA10 X Point wireless enabled. "PRELIMINARY"



Project: _____

Location: _____

Cat.No: _____

Type: _____

Qty: _____

Notes: _____

Philips Gardco 104 LED wall sconces feature a low-profile design that provides wide flexibility in high performance exterior wall illumination. Full cutoff performance, usable illumination patterns, and powerful wattages combine into a compact and architecturally pleasing design. 104L sconces are available in Type 2, 3, and 4 distributions, and provide output of up to 9500 lumens. Energy saving control options increase energy savings and offer California Title 24 compliance. Emergency Battery Backup option available for path of egress.

Ordering guide

example: 104L-32L-700-NW-G1-3-120-IMRI2-BZ

Prefix	Number of LEDs	Drive Current		LED Color - Generation	Distribution	Emergency	Voltage	Options		Finish	
								Controls	Electrical		
104L											
104L 104L LED Wall Sconce	16L 16 LEDs (1 module)	530	530mA	CW-G1 Cool White 5700K, 70 CRI Generation 1	2 Type 2 3 Type 3 4 Type 4	EBPC Emergency Battery Pack Cold Weather ^{3,4,12} Leave blank to omitt an emergency option	UNV	120-277V	DD 0-10V Dimming Driver ^{5,6} DCC Dual Circuit Control ^{7,8} DynaDimmer: Automatic Profile Dimming CS50 Safety 50% Dimming (7 hours) ^{7,9,10} CM50 Median 50% Dimming (8 hours) ^{7,9,10} CE50 Economy 50% Dimming (9 hours) ^{7,9,10} DA50 All Night 50% Dimming ^{7,9,10} Photoelectric Systems PCB Photocontrol Button ^{5,10,11,12} Infrared Motion Response Systems IMRI2 Integral with #2 lens ^{4,12,13} IMRI3 Integral with #4 lens ^{4,12,13} Wireless Controls LLC2 Integral module with #2 lens ^{5,7,9,14} LLC3 Integral module with #3 lens ^{5,7,9,14}	Fusing F1 Single (120, 277, 347VAC) ¹² F2 Double (208, 240, 480VAC) ¹² F3 Canadian Double Pull (208, 240, 480VAC) ¹²	Textured BK Black WH White BZ Bronze DGY Dark Gray MGY Medium Gray Customer specified RAL Specify optional color or RAL (ex: OC-LGP or OC-RAL7024) CC Custom color (Must supply color chip for required factory quote)
		650	650mA ¹				HVU	347-480V			
		700	700mA				120	120V			
		1000	1000mA				208	208V			
	32L 32 LEDs (2 module)	1200	1200mA	240			240V				
		530	530mA	277			277V				
		650	650mA ¹	347			347V				
		700	700mA	480			480V				
		1000	1000mA ²								

- 650mA only available with Emergency Battery Pack Cold Rated (EBPC) option
- 32L rated for 30°C at 1000mA
- Available for use with 16L and 32L in 530mA or 650mA only. Rated for -20°C to 35°C.
- Available in 120 or 277V only.
- Not available with Dual Circuit Control (DCC) option.
- 16L not available with Dimming Driver (DD) in following configurations: 530, 700 and 1200mA in 347 and 480V.
- Not available with Dimming Driver (DD) option.
- Available in 32L with 530mA. Consult technical support center for use with photocell and CS/CM/CE/DA.
- Available in 120-277V (UNV) only.
- Not available with LLC and DCC.
- Not available with 480V.
- Must specify input voltage.
- Not available with DD, DCC or LLC.
- LLC2/3 Not available with PCB, IMRI, CS/CM/CE/DA. Ships with WS accessory attached to wireless module. Not for use with LLCR accessory.

104L Wall sconce LED

Wall Mount

Luminaire Accessories (order separately)

Mounting Accessories

Wall Mount

WS Wall Mounted Box for Surface Conduit

Controls Accessories

Wireless controls remote mount module

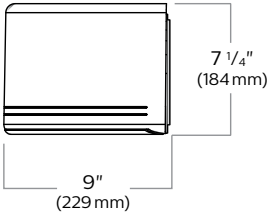
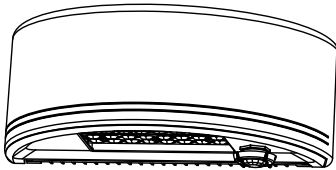
LLCR2-(F) #2 lens - specify finish in place of (F)

LLCR3-(F) #3 lens - specify finish in place of (F)

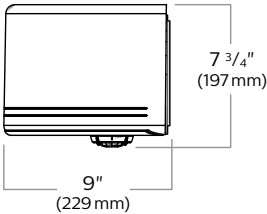
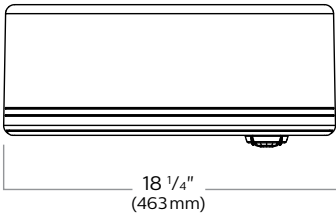
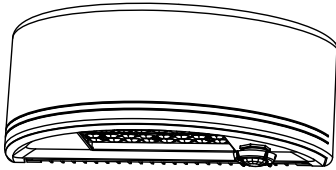
Wireless controls remote controller accessory

Wireless controls system offers a remote radio/sensor module that allows connectivity to Wireless system gateway. Remote module can be mounted to wall or pole with j-box supplied. May be specified by choosing one of two different lenses to accommodate a variety of mounting heights/sensor detection ranges. Must specify option DD on luminaires that are planned to be used with remote mount controllers. See page 4 for Wireless Controls details.

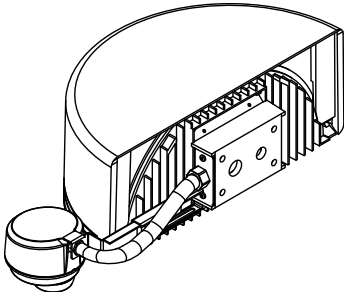
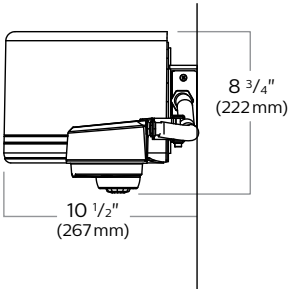
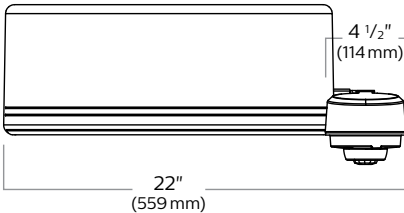
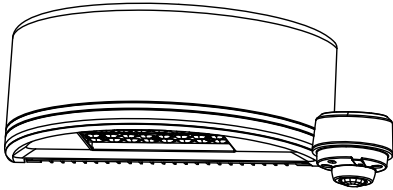
Dimensions



Motion Response



Wireless Controls



Luminaire Weights

LED Wall Sconce 104L	Weight
Luminaire	13.5 lbs
Luminaire - EBPC (EM battery pack)	17.0 lbs
Luminaire - Integrated Wireless Controls	16.3 lbs

104L Wall sconce LED

Wall Mount

LED Wattage and Lumen Values

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Average System Watts ¹	Type 2			Type 3			Type 4		
					Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)	Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)	Lumen Output ^{1,2}	BUG Rating	Efficacy (LPW)
104L-16L-530-NW-G1	16	530	4000K	28	2944	B1-U0-G0	106	2687	B1-U0-G1	97	2747	B1-U0-G1	99
104L-16L-700-NW-G1	16	700	4000K	37	3789	B1-U0-G1	103	3458	B1-U0-G1	94	3535	B1-U0-G1	96
104L-16L-1000-NW-G1	16	1000	4000K	55	5050	B1-U0-G1	92	4609	B1-U0-G1	84	4712	B1-U0-G1	86
104L-16L-1200-NW-G1	16	1200	4000K	65	5744	B2-U0-G1	89	5242	B1-U0-G2	81	5359	B1-U0-G2	83
104L-32L-530-NW-G1	32	530	4000K	52	5698	B2-U0-G1	110	5200	B1-U0-G2	100	5316	B1-U0-G2	102
104L-32L-700-NW-G1	32	700	4000K	70	7242	B2-U0-G1	103	6609	B1-U0-G2	94	6757	B1-U0-G2	96
104L-32L-1000-NW-G1	32	1000	4000K	107	9797	B2-U0-G1	92	8941	B2-U0-G2	84	9140	B2-U0-G2	86

LED Wattage and Lumen Values (Emergency Mode)³

Ordering Code	LED Qty	LED Current (mA)	Color Temp.	Ave. System Watts (charging mode)	Type 2	Type 3	Type 4
104L-16L-NW-EBPC	16	N/A	4000K	14	1345	1228	1255
104L-32L-NW-EBPC	32	N/A	4000K	14	1754	1600	1636

1. Wattage and lumen output may vary by +/- 8% due to LED manufacturer forward volt specification and ambient temperature. Wattage shown is average for 120V through 277V input. Actual wattage may vary by an additional +/- 10% due to actual input voltage.
2. Lumen values based on photometric tests performed in compliance with IESNA LM-79.
3. For emergency EBPC option, publish values are based on initial lumens.

Luminaire options

DD: 0-10V dimming driver with leads supplied through back of luminaire (for secondary dimming controls by others).

Dynadimmer Automatic Profile Dimming: Automatic dimming profiles (CS50/CM50/CE50) offer safety, median, or economy settings, for shorter or longer duration. Dimming profiles provide flexibility towards energy savings goals while optimizing light levels during specific dark hours. 50% dimming is standard. DA50 offers 50% instantaneous dimming all night (during all dark hours). 75% and 25% dimming is also available if different light levels are required (contact Technical Support for details).

Profile	Dimming		
	Schedule	Duration	Level
Economy	9 PM - 6 AM	9 hours	50%
Median	10 PM - 6 AM	8 hours	50%
Safety	11 PM - 6 AM	7 hours	50%
Reactive 50	all night	dynamic	

IMRI2, IMRI3: Infrared Motion Response Integral (IMRI). IMRI module is mounted integral to the luminaire door and is available with two different sensor lens types to accommodate various mounting heights and occupancy detection ranges (see charts for approximate detection patterns). Motion response for option IMRI is set/operates in the following fashion: The motion sensor is set to a constant 25%. When motion is detected by the PIR sensor, the luminaire returns to 100% light output. Dimming on low is factory set to 25% with 5 minute default in "full power" prior to dimming back to low. When no motion is detected for 5 minutes, the motion response system reduces the wattage by 75%, to 25% of the normal constant wattage reducing the light level. IMRI can also be specified with automatic profile dimming for the added benefit of a combined dimming profile with sensor detection, where the PIR sensor will override the dimming profile when occupancy is detected. Passive infrared (PIR) motion sensor, WattStopper FSP-211, equipped with lens choice specified. Available in 120V or 277V input only. Motion sensor off state power is 0.0 watts. The FSP-211 can also be reprogrammed with WattStopper's FS1R-100 remote programming tool accessory.

DCC: Dual Circuit Control permits separate switching of 32L models only, where a quantity of (2) 16 LED modules are controlled independently by use of two sets of leads, one for each module.

Wireless Controls: Controller radio/sensor module attached to luminaire via WS accessory (included with LLC2 and LLC3 option) and includes radio, photocell and motion sensor. Also available with remote pod accessory where pod is mounted separate from luminaire to pole or wall (see accessories and Wireless Controls information page 4).

F1: Fusing Single (for 120, 277 or 347VAC)

F2: Fusing Double (for 208, 240 or 480VAC)

F3: Fusing Canadian Double Pull (for 208, 240 or 480VAC)

EBPC: Emergency battery pack is cold weather rated down to -20C (-4F) and integral to the luminaire, allowing for a consistent look between emergency and non-emergency sconces. A separate surface mount accessory box is not required. Dual light engines (32L) are wired in parallel, both operating in emergency mode to meet various redundancy lamp requirements. Also available with single light engine (16L). Secondary driver with relay immediately detects AC power loss and powers luminaire for a minimum of 90 minutes from the time power is lost.

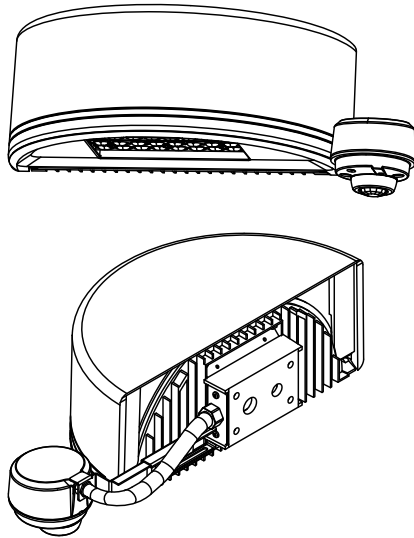
104L Wall sconce LED

Wall Mount

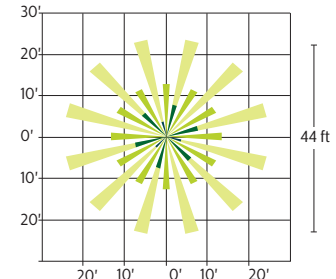
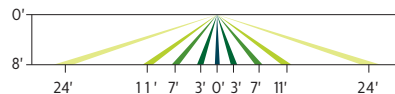
Infrared Motion Response and Wireless Controls Sensor Coverage Patterns

LLC2/3 Luminaire Mounted Controller

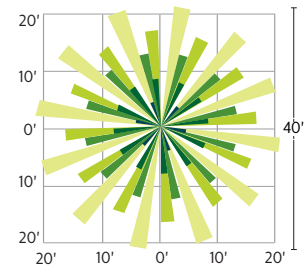
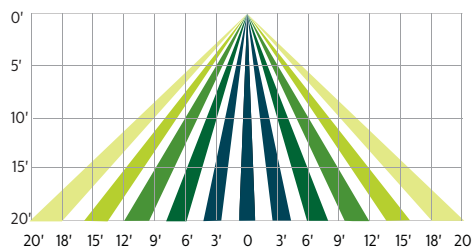
Controller attached to luminaire and Includes radio, photocell and motion sensor with #2 or #3 lens for 8-20' mounting heights.



IMRI2/LLC2/LLCR2

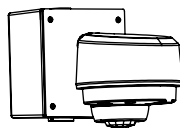


IMRI3/LLC3/LLCR3

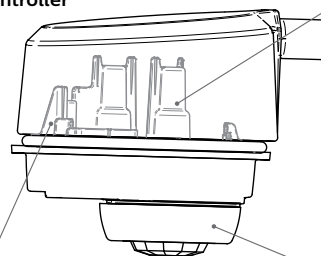


Remote Mount Wireless Controller

Used to extend the communication on site, to extend motion response and add other luminaires that are not pole mounted. Consult factory for more information.



Controller



Photocell

- Ambient light photocell on every wireless radio that averages the light levels of up to 5 controllers for an accurate reading and optimal light harvesting activity.
- Reports ambient light readings to 1500 Fc.

Wireless Radio

- 1.8 Watts max (no load draw)
- Operating voltage 120-277 VAC RMS
- Communicates using the ZigBee protocol
- Carries out dimming commands from Gateway
- Reports ambient light readings to 1500 Ft-Cd
- Transmission Systems Operating within the band 2400-2483.5Mhz
- ROHS Compliant

Motion Response

- Detects motion through passive infrared sensing technology with three different lens configurations
- Motion sensor coverage can be adjusted from a narrow to a wide detection range, which helps reduce false triggers to further increase energy savings.
- Sensing profiles can be updated to adapt to activity levels in the environment, such as occupancy level, wind, and mounting height

104L Wall sconce LED

Wall Mount

Luminaire Configuration Information – Sconce with wireless controls

Gateway

Overview: The gateway opens up communication with the wireless radios installed on equipped luminaires (or pole), allowing you to control your fixtures straight from the web. One gateway can communicate with up to 800 fixtures. Typically one unit is required per parking lot.

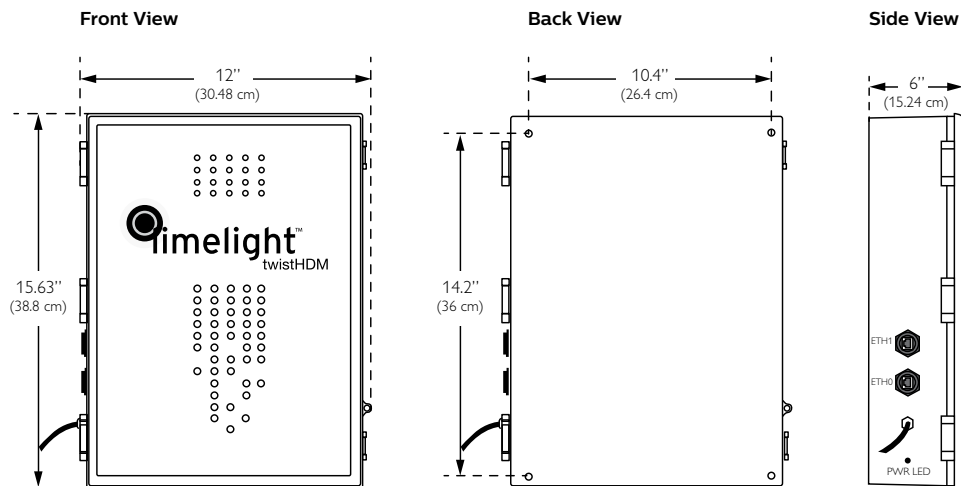
Installation: Gateway has 4 blind threaded holes on the back side that accept 10-32 screws. Mount spacing is 10.41" across and 14.19" vertical.

Requirements: The gateway must be mounted in a secure on-site location. The gateway requires 120V. Distance of gateway to the first radio varies upon application; contact factory. Strong internet connection required.

Specifications:

- High density RF Mesh coordinator
- Ethernet or wireless internet connection to server
- Proprietor of software "rules of operation"
- Watertight Ethernet connections
- Highly protected, long life ac/dc power supply
- Single board, ARM compliant 520Mhz Intel computer.
- Operating Temperature -20°C to 55°C
- Tamper proof housing

Gateway Dimensions



104L Wall sconce LED

Wall Mount

Specifications

Housing

Main body cast housing and back plate made of a low copper die cast Aluminum alloy for a high resistance to corrosion, 0.100" (2.5mm) minimum thickness. Hinged door allows access to driver and LED compartment.

Mounting

Mounting is completed through integral back plate that features a separate recessed feature for hook and lock quick mount plate that secures with two set screws from bottom of luminaire. Mounting plate is located in the center of the luminaire width and 3.5" above the luminaire bottom (lens down position). Luminaire ships fully assembled, ready to install.

Light Engine

Composed of 4 main components: Heat Sink / LED Module / Optical System / Driver. Electrical components are RoHS compliant. IP66 sealed light engines. LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

Heat Sink

Integral door/heat sink design made of low copper die cast Aluminum alloy for a high resistance to corrosion.

LED Module

Composed of high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000K nominal (+/- 275K), CRI 70 Min. Available in other color temperatures including Cool White, 5700K and Warm White, 3000K.

LED Performance

Predicted lumen depreciation data ¹				
Ambient Temperature (°C)	Driver mA	Calculated L ₇₀ hours ^{1,2}	L ₇₀ per TM-21 ^{2,3}	Lumen Maintenance % @ 60,000 hours
25°C	up to 1200 mA	>100,000	>60,000	88%

1. Predicted performance derived from LED manufacturer's data and engineering design estimates, based on IESNA LM-80 methodology. Actual experience may vary due to field application conditions.
2. L₇₀ is the predicted time when LED performance depreciates to 70% of initial lumen output.
3. Calculated per IESNA TM21-11. Published L₇₀ hours limited to 6 times actual LED test hours.

Hardware

All exposed screws shall be stainless and/or corrosion resistant and captive.

Optical System

The advanced LED optical systems provide IES Types 2, 3, 4. Composed of high performance UV stabilized optical grade polymer refractor lenses to achieve desired distribution optimized to get maximum spacing, target lumens and a superior lighting uniformity. System is rated IP66. Performance shall be tested per LM-63, LM-79 and TM-15 (IESNA) certifying its photometric performance. Dark sky compliant with 0% uplight and U0 per IESNA TM-15.

Driver

High power factor of 90% min. Electronic driver, operating range 50/60 Hz. Auto adjusting universal voltage input from 120 to 277 VAC or 347 to 480 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built in driver surge protection of 2.5kV (min).

Surge Protection

Each luminaire is provided as standard with surge protector (Philips designed SP1) tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/5kA waveforms for Line Ground, Line Neutral and Neutral Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid State Street Lighting Consortium) Model Specification for LED Roadway Luminaires Appendix D Electrical Immunity High Test Level 10kV / 5kA.

Wiring (supplied by others)

Splices must be made in the junction box.

Finish

Five standard colors offered in textured black, white, bronze, dark gray and medium gray. Color in accordance with the AAMA 2604 standard. Application of polyester powder coat paint 2.5 mils minimum. The thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard. RAL and custom color matching available.

LED Products Manufacturing Standard

The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with EC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

LED Useful Life

Luminaire Useful Life accounts for LED lumen maintenance. Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in situ thermal testing in accordance with UL1598 and UL8750, LED LM-80/TM-21, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C.

Certifications and Compliance

cULus Listed for Canada and USA suitable for wet locations when mounted downward facing. cULus Listed for Canada and USA suitable for damp locations when inverted upward facing when mounted in covered ceiling application. Emergency Battery Pack option is tested and listed to UL924 and CSA C22.2 No. 141-10 DesignLights Consortium qualified on models as listed on DLC QPL. Luminaire is rated for operation in ambient temperature of -40°C (-40°F) up to +40°C (+104°F).

Limited Warranty

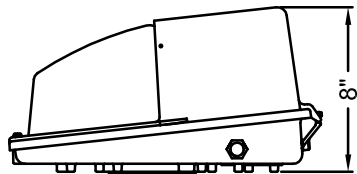
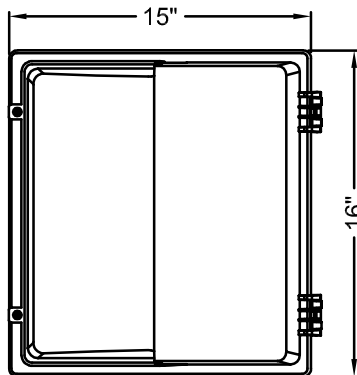
5-year limited warranty. See philips.com/warranties for details and restrictions. Visit our eCatalog or contact your local sales representative for more information.

© 2016 Philips Lighting Holding B.V. All rights reserved. Philips reserves the right to make changes in specifications and/or to discontinue any product at any time without notice or obligation and will not be liable for any consequences resulting from the use of this publication. philips.com/luminaires



Philips Lighting North America Corporation
200 Franklin Square Drive, Somerset, NJ 08873
Tel. 855-486-2216

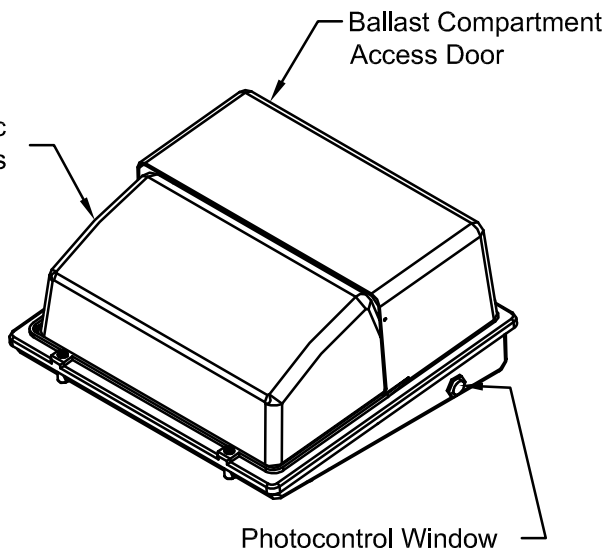
Philips Lighting Canada Ltd.
281 Hillmount Rd, Markham, ON, Canada L6C 2S3
Tel. 800-668-9008



Maximum Weight - 28 Lbs.



Prismatic
Glass Optics



Wallpack® IV
GLASS LED

INFRASTRUCTURE
OUTDOOR

HOLOPHANE®
An Acuity Brands Company
LEADER IN LIGHTING SOLUTIONS

W4GLED

Series
W4GLED

LED's

10C = 10 LED (ONE ENGINE)
20C = 20 LED (TWO ENGINES)
30C = 30 LED (ONE ENGINE)

DRIVE CURRENT

1000 = 1000 mA (1A)

COLOR TEMPERATURE

40K = 4000K
50K = 5000K

DISTRIBUTION

T3M = TYPE III
MEDIUM

ORDERING INFORMATION:

VOLTAGE

MVOLT = MULTIVOLT ¹
120, 208, 240, 277 ¹
120 = 120 VOLT ¹
208 = 208 VOLT ¹
240 = 240 VOLT ¹
277 = 277 VOLT ¹
347 = 347 VOLT ²
480 = 480 VOLT ²

CONTROL OPTIONS

DMG = 0-10V DIMMING DRIVER
PE = PHOTOELECTRIC CELL ³
BUTTON TYPE
PER = NEMA TWIST-LOCK
RECEPTACLE ONLY
(NO CONTROLS)

OPTIONS

SHIPPED INSTALLED

SF = SINGLE FUSING 120, 277 & 347 VOLTS ⁴
DF = DOUBLE FUSING 208, 240 & 480 VOLTS ⁴
TP = TAMPER RESISTANT SCREWS
NOM = NOM CERTIFIED
SPD = SEPERATE SURGE PROTECTION ⁵
ELSW = EMERGENCY BATTERY BACKUP
(STANDARD 0°C) ⁶
ELCW = EMERGENCY BATTERY BACKUP
(COLD WEATHER -20°C) ⁶
LWG = WIRE GUARD ⁹
LVG = VANDAL GUARD ⁹

FINISH

BKSDP = BLACK
GYSDP = GRAY
WHSDP = WHITE
BZSDP = BRONZE

ACCESSORIES

DLL127F 1.5 JU = PHOTOCELL -SSL
TWIST-LOCK (120-277V) ⁷
DLL347 1.5 CUL JU = PHOTOCELL -SSL
TWIST-LOCK (347V) ⁷
DLL480 1.5 CUL JU = PHOTOCELL -SSL
TWIST-LOCK (480V) ⁷
SC U = SHORTING CAP ⁷
W4GVGU = VANDAL GUARD ⁸
W4GWGU = WIRE GUARD ⁸

NOTES:

1. MVOLT driver operates on any line voltage from 120- 277V (50/60 Hz). Specify 120, 208, 240 or 277 options only when ordering with fusing (SF, DF options) or photocontrol (PE).
2. Not available with 10C option.
3. Must specify voltage; not available with MVOLT.
4. Single fuse (SF) requires 120, 277 or 347 voltage option. Double fuse (DF) requires 208, 240 or 480 voltage option.
5. See the electrical section on page 2 for more details.
6. Not available with 30C, 347, 480, PER, or SPD.
7. Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.
8. Requires field modification (only when ordered as a separate accessory).
9. Casting is pre-drilled for guard. Wire Guard ships separately.

ORDER #:

TYPE:

DRAWN: TAR

DATE: 10-8-15

DWG #: W4GLED

THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON ALL ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SHIPPED WITH THE MATERIAL. THE CUSTOMER SHALL BE RESPONSIBLE FOR PROVIDING THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

Lumen Output

Lumen values are from photometric test in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerance allowed by Lighting Facts. Actual performance may differ as a result of end-user environment and application. Contact factory for performance data on any configurations not shown here.

LED's	DRIVE CURRENT (mA)	SYSTEM WATTS	DIST. TYPE	50K (5000K, 65 CRI)				
				LUMENS	B	U	G	LPW
10C (10 LED)	1000	39W	T3M	3398	0	3	3	87
20C (20 LED)	1000	72W	T3M	7027	1	3	4	97
30C (30 LED)	1000	104W	T3M	8427	1	3	5	81

Lumen Ambient Temperature (LAT) Multipliers

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

AMBIENT		LUMEN MULTIPLIER
0° C	32° F	1.02
10° C	50° F	1.01
20° C	68° F	1.00
25° C	77° F	1.00
30° C	86° F	1.00
40° C	104° F	.98

Project LED Lumen Maintenance

Data references the extrapolated performance projections for the W4GLED 30C 1000 platform 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.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	.969	.935	.870

ELECTRICAL LOAD

LED's	DRIVE CURRENT (mA)	SYSTEM WATTS	CURRENT (A)					
			120	208	240	277	347	480
10C	1000	39W	0.36	0.21	0.18	0.16	-	-
20C	1000	72W	0.67	0.38	0.33	0.29	0.23	0.17
30C	1000	104W	0.96	0.56	0.48	0.42	0.33	0.24

FEATURES & SPECIFICATIONS

INTENDED USE

The energy savings, long life and easy-to-install design of the W4GLED make it the smart choice for building-mounted doorway and pathway illumination for nearly any facility.

CONSTRUCTION

Die-cast aluminum housing has an impact-resistant, tempered glass lens that is fully gasketed. Modular design allows for ease of maintenance. The LED driver is mounted to the front casting to thermally isolate it from the light engine for low operating temperature and long life. Housing is completely sealed against moisture and environmental contaminants.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling.

OPTICS

Protective glass lens covers the light engine's precision-molded proprietary acrylic lenses. Light engines are available in 4000K and 5000K configurations.

ELECTRICAL

Light engine(s) consist of 10 or 30 high-efficacy LEDs mounted to a metal-core circuit board and integral aluminum heat sink to maximize heat dissipation and promote long life (L87/100,000 hrs at 25°C). The electronic driver has a power factor of >90%, THD <20%, and a minimum 2.5 KV surge rating. When ordering the SPD option, a separate surge protection device is installed within the luminaire which meets a minimum Category C low operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Back housing is separated from front housing, eliminating ballast weight and promoting easy handling. Top 3/4" threaded wiring access. Back access through removable 3/4" knockout. Feed-thru wiring can be achieved by using a conduit tee. Mount on any vertical surface. Not recommended in applications where a sprayed stream of water can come in direct contact with glass lens.

LISTINGS

UL listed for wet locations. Rated for -40°C minimum ambient. Luminaire is IP55 rated. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org to confirm which versions are qualified.

WARRANTY

Five year limited warranty. Complete warranty terms located at www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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.

Wallpack® IV
GLASS LED

INFRASTRUCTURE
OUTDOOR

HOLOPHANE®
An Acuity Brands Company
LEADER IN LIGHTING SOLUTIONS

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ORDER #:

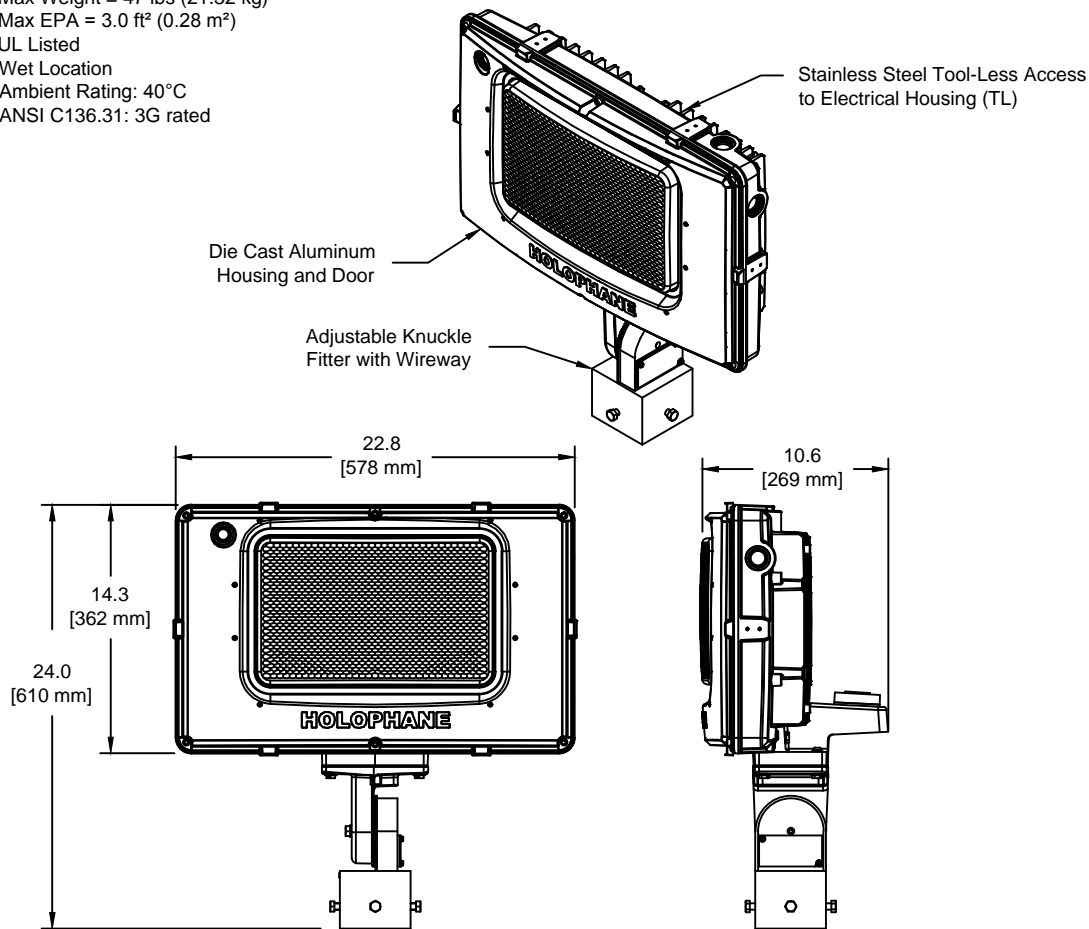
TYPE:

DRAWN: TAR

DATE: 10-8-15

DWG #: W4GLED

Max Weight = 47 lbs (21.32 kg)
Max EPA = 3.0 ft² (0.28 m²)
UL Listed
Wet Location
Ambient Rating: 40°C
ANSI C136.31: 3G rated



KNUCKLE MOUNT

Customer Preferred: (Most Frequently Ordered Catalog Numbers)
PMLED61000mA5K5AS1KGPNR

ORDERING INFORMATION:

<p>PMLED</p> <p>Series</p> <p>Predator Medium LED</p>	<p>Number of LED'S</p> <p>2 = 2 Modules 3 = 3 Modules 4 = 4 Module 5 = 5 Modules 6 = 6 Modules</p>	<p>Color Temperature</p> <p>4K = 4,000K CCT 5K = 5,000 K CCT</p>	<p>Drive Current</p> <p>10A = 1050 mA Driver 07A = 700mA Driver</p>	<p>Voltage</p> <p>AS = Auto-sensing Voltage (120 thru 277) AH = Auto-sensing Voltage (347thru 480)</p>
<p>Beam pattern</p> <p>44 = 4x4 (prismatic glass) 45 = 4x5 (prismatic glass) 55 = 5x5 (prismatic glass) 65 = 6x5 (prismatic glass) 66 = 6x6 (prismatic glass)</p>	<p>Mounting</p> <p>1 = Tenon Slipfitter Knuckle 3 = Yoke Stainless Steel 4 = Yoke Galvanized</p>	<p>UL Category</p> <p>K = Wet Locations 1L = Marine Outside</p>	<p>Color</p> <p>BP = Black Superdurable with Epoxy Primer GP = Grey Superdurable with Epoxy Primer HP = Graphite Superdurable with Epoxy Primer WP = White Superdurable with Epoxy Primer ZP = Bonze Superdurable with Epoxy Primer</p>	
<p>Cord Length Option</p> <p>04 = 4 ft Cord Length 05 = 5 ft Cord Length 06 = 6 ft Cord Length 08 = 8 ft Cord Length 10 = 10 ft Cord Length 12 = 12 ft Cord Length 15 = 15 ft Cord Length 20 = 20 ft Cord Length 25 = 25 ft Cord Length 30 = 30 ft Cord Length</p>		<p>Cord Type</p> <p>63 = 16 Gage, 3 Conductor 43 = 14 Gage, 3 Conductor 23 = 12 Gage, 3 Conductor</p>	<p>Options</p> <p>See Sheet 2</p>	<p>Accessories</p> <p>See Sheet 2</p>

ORDERING INFORMATION:

Predator® Medium LED

Infrastructure
Specialty

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ORDER #:	
TYPE:	
DRAWN:	CEA
DATE:	8/18/14
DWG #:	LUM_PMLED

Options

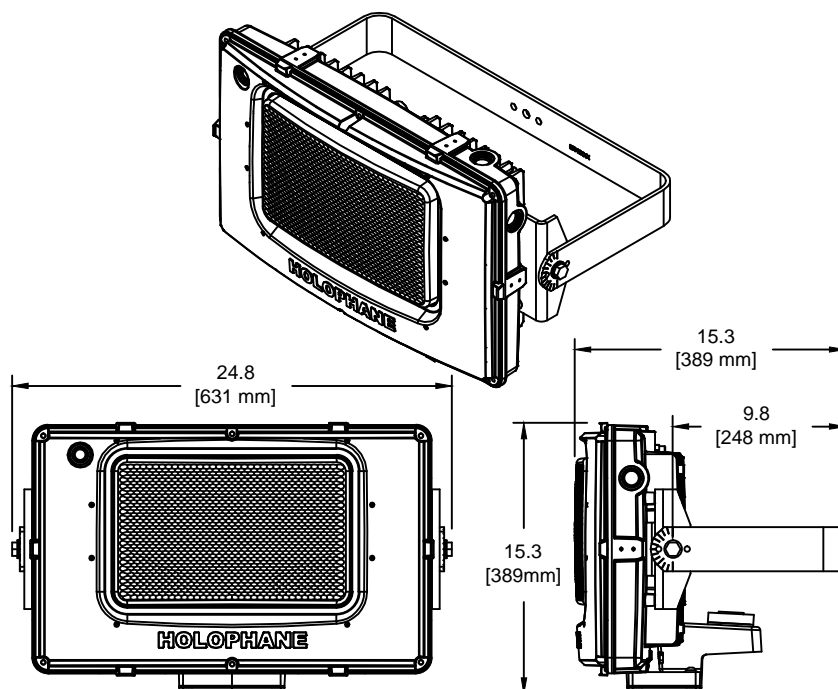
²P3 = Photocontrol Receptacle
²P5 = 5-Pin Receptacle
²P7 = 7-Pin Receptacle
PCL1 = Photocontrol 120V
PCL3 = Photocontrol 347V
PCL4 = Photocontrol 480V
PCSS = DSS 120-277V PC
DM = 0-10V Dimmable Driver
DE = RoamVue Concierge
DE34 = RoamVue Concierge 347V
DE48 = RoamVue Concierge 480V
VE = RoamVue
VE34 = RoamVue 347V
VE48 = RoamVue 480V
NL = NEMA Label
TL = Tool-less Entry with latches
F1 = Single Fusing
F2 = Double Fusing
SH = Shorting Cap

Accessories

PMLED FV-BP = Full Visor, Black
PMLED FV-GP = Full Visor, Gray
PMLED FV-HP = Full Visor, Graphite
PMLED FV-WP = Full Visor, White
PMLED FV-ZP = Full Visor, Bronze
SH = Shorting Cap
PMLED UBV-BP = Upper/Bottom Visor, Black
PMLED UBV-GP = Upper/Bottom Visor, Gray
PMLED UBV-HP = Upper/Bottom Visor, Graphite
PMLED UBV-WP = Upper/Bottom Visor, White
PMLED UBV-ZP = Upper/Bottom Visor, Bronze
PMLED VG = Vandal Guard
PMLED WG = Wire Guard
08657-BP = Yoke to 2.375" OD Tenon Adaptor, Black
08657-GP = Yoke to 2.375" OD Tenon Adaptor, Gray
08657-HP = Yoke to 2.375" OD Tenon Adaptor, Graphite
08657-WP = Yoke to 2.375" OD Tenon Adaptor, White
08657-ZP = Yoke to 2.375" OD Tenon Adaptor, Bronze
08775-BP = Yoke to 2.375" OD Tenon Adaptor with Photocontrol Receptacle, Black
08775-GP = Yoke to 2.375" OD Tenon Adaptor with Photocontrol Receptacle, Gray
08775-HP = Yoke to 2.375" OD Tenon Adaptor with Photocontrol Receptacle, Graphite
08775-WP = Yoke to 2.375" OD Tenon Adaptor with Photocontrol Receptacle, White
08775-ZP = Yoke to 2.375" OD Tenon Adaptor with Photocontrol Receptacle, Bronze

Notes:

1. Only available with SS Yoke (3).
2. Not available with Marine (L).



YOKE MOUNT

Predator[®] Medium LED

Infrastructure Specialty



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ORDER #:

TYPE:

DRAWN: CEA

DATE: 8/18/14

DWG #: LUM_PMLED

Performance specification

Optical

Performance of the PMLED is to replace 100-400 watt HID luminaires. The optical system utilizes state of the art chip on board technology with 4000K and 5000K color temperature choices with a 70 CRI minimum. The luminaire uses a highly specular internal reflector designed for superior field to beam ratios, uniformity and spacing. NEMA beam pattern choices of 4X4, 4X5, 5X5, 6X5, and 6X6 are available. Optional shielding is available to control uplight and light trespass. The optical enclosure is a borosilicate prismatic glass lens.

Electrical

Long Life: LED light engines are rated > 100,000 hours at 25C, L70. Electronic driver has a rated life of 100,000 hour at a 25C ambient.

Surge protection device provides IEEE/ANSI C62.4 Category C (10kV/5kA) level of protection .

Mechanical

Rugged low copper A360 alloy die cast aluminum housing has integral heat sink fins to optimize thermal management through conductive and convection cooling. The die cast aluminum housings are painted with a super durable polyester paint finish over an epoxy primer pretreat yields a finish that achieves a scribe creepage of 8 after 5,000 hours exposure to salt spray providing durability and corrosion resistance.

The luminaire is available in either knuckle mount or yoke mount. The knuckle mount is adjustable and is designed to fit 2.375 inch to 2.875 inch tenons. The yoke mount is available in either galvanized steel or stainless steel. The luminaire comes standard prewired eliminating the lineman from opening the unit during installation. The knuckle version is pre-wired to the wiring chamber at the fitter. The yoke mount has provision for a pre-wired cord drop to specified length in the ordering information.

The luminaire comes standard with the door frame bolted to the housing. Optional tool less stainless steel latches are available to allow easy access to LED drivers, surge protection, and optional terminal block.

The optical enclosure is sealed and gasketed to an IP66 rating. All luminaire mountings are 3G vibration rated per ANSI C136.

Controls

The NEMA three pin locking -style photocontrol receptacle and an optional five pin receptacle is available.

Dimming version (available with DE and VE option) uses proprietary Acuity Brands components to enable continuous 0-10V dimming down to 10% output via the ROAM smart controls system. (sold separately)

Photocontrol for solid-state lighting meets ANSI C136.10 criteria

Warranty & Standards

Rated for -40C to 40C ambient

UL 1598 A wet location, UL 1598A Marine Outside Type(Salt Water)

Predator[®]
Medium LED

**Infrastructure
Specialty**



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ORDER #:	
TYPE:	
DRAWN:	CEA
DATE:	8/18/14
DWG #:	LUM_PMLED

Operating Characteristics

PMLED	Distribution	Lumens	Input operating Amps						Input Watts	Input Watts	LPW (AS)	LPW (AH)
		4K	120V	208V	240V	277V	347V	480V	(AS)	(AH)		
02 07A			0.436	0.257	0.226	0.203	0.164	0.130				
	44	4,971							52	57	96	87
	45	5,056							52	57	97	89
	55	5,393							52	57	104	95
	65	5,426							52	57	104	95
	66	5,328							52	57	102	93

PMLED	Distribution	Lumens	Input operating Amps						Input Watts	Input Watts	LPW (AS)	LPW (AH)
		4K	120V	208V	240V	277V	347V	480V	(AS)	(AH)		
03 07A			0.668	0.392	0.351	0.317	0.234	0.176				
	44	7,242							80	80	91	91
	45	7,365							80	80	92	92
	55	7,857							80	80	98	98
	65	7,920							80	80	99	99
	66	7,762							80	80	97	97

PMLED	Distribution	Lumens	Input operating Amps						Input Watts	Input Watts	LPW (AS)	LPW (AH)
		4K	120V	208V	240V	277V	347V	480V	(AS)	(AH)		
04 07A			0.873	0.506	0.448	0.402	0.304	0.224				
	44	9,943							105	105	95	95
	45	10,111							105	105	96	96
	55	10,787							105	105	103	103
	65	10,873							105	105	104	104
	66	10,657							105	105	101	101

PMLED	Distribution	Lumens	Input operating Amps						Input Watts	Input Watts	LPW (AS)	LPW (AH)
		4K	120V	208V	240V	277V	347V	480V	(AS)	(AH)		
05 07A			1.076	0.621	0.545	0.484	0.373	0.273				
	44	12,275							129	129	95	95
	45	12,483							129	129	97	97
	55	13,317							129	129	103	103
	65	13,423							129	129	104	104
	66	13,157							129	129	102	102

PMLED	Distribution	Lumens	Input operating Amps						Input Watts	Input Watts	LPW (AS)	LPW (AH)
		4K	120V	208V	240V	277V	347V	480V	(AS)	(AH)		
06 07A			1.336	0.784	0.702	0.634	0.468	0.352				
	44	14,484							160	160	91	91
	45	14,730							160	160	92	92
	55	15,714							160	160	98	98
	65	15,840							160	160	99	99
	66	15,525							160	160	97	97

Predator[®]
Medium LED

Infrastructure
Specialty



THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUBSTITUTED WITHOUT NOTICE. THE ORDER MUST BE WRITTEN, ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE PROVIDED. THIS PRINT IS THE PROPERTY OF HOLOPHANE AND IS TO BE RETURNED TO HOLOPHANE WITH THE ORDER. IT IS THE CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN CONNECTION WITH MATERIAL FURNISHED BY HOLOPHANE.

WARRANTY

Limited warranty located at
www.acuitybrands.com/CustomerResources/Terms and conditions.aspx

NOTE

Specifications subject to change without notice.

Actual performance may differ as a result of end-user environment and application.

Actual wattage may differ by +/- 8% when operating at nominal input voltage +/- 10%.

ORDER #:

TYPE:

DRAWN: CEA

DATE: 4/21/14

DWG #: LUM_PMLED

Predator® Medium LED

Infrastructure
Specialty

 **HOLOPHANE**[®]
LEADER IN LIGHTING SOLUTIONS

An **Aucity Brands Company**

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THIS DRAWING, WHEN APPROVED, SHALL BECOME THE COMPLETE SPECIFICATION FOR THE MATERIAL. TO BE FURNISHED BY HOLOPHANE ON THE ORDER NOTED ABOVE. A UNIT OF SIMILAR DESIGN MAY BE SUPPLIED, BUT ONLY AFTER APPROVAL BY THE CUSTOMER IN WRITING. ON POLE ORDERS AN ANCHOR BOLT TEMPLATE PRINT WILL BE SUPPLIED WITH EACH ANCHOR BOLT ORDER TO MATCH THE POLE ORDER. THE ANCHOR BOLT ORDER WILL BE FOR THE ORDERED POLE LOANED SUBJECT TO RETURN UPON DEMAND AND UPON EXPRESS CONDITION THAT IT WILL NOT BE USED DIRECTLY OR INDIRECTLY IN ANY WAY DETRIMENTAL TO OUR INTERESTS, AND ONLY IN

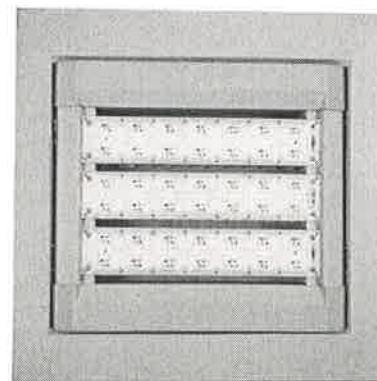
ORDER #:	
TYPE:	
DRAWN: CEA	
DATE: 4/21/14	



LED Features:

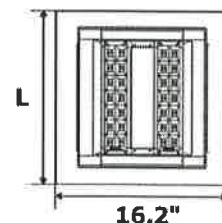
- CREE XLAMP XPG2 LEDS >100 Lm/W
- Available in 11 IES light distributions
- Patented heat dissipation design for optimum efficiency
- Excellent optical presentation for high bays
- Solid State with high-shock and vibration resistance
- Die-cast aluminum housing with custom colors
- Modular design for easy maintenance or upgrade
- Quad eyelet for suspended Gripple Y-fit mounting
- High CRI - RA>75 enhances all original colors
- Philips Xitanium Class I 0-10V Dimming Power Supply
- External photocell and motion sensor capable
- No infrared or UV radiation
- Operating Temperature: -40 to 55 degrees celsius
- 100,000 hour LED life - 700mA drive current
- 5 year system warranty
- CE, FCC, RoHS, cUL, UL, CSA - IP66 outdoor rated

Garage / Canopy Vega RM Series



Models:

- VVDRM014: 14 LEDS - 33W - 3100 Lm - 6.6" (L) - 10.8 lbs
- VVDRM028: 28 LEDS - 62W - 5800 Lm - 9.2" (L) - 12.3 lbs
- VVDRM042: 42 LEDS - 93W - 8800 Lm - 11.8" (L) - 13.8 lbs
- VVDRM056: 56 LEDS - 123W - 12300 Lm - 14.3" (L) - 15.5 lbs



Ordering: moq = 2 Units

Part #	Color Temp	Lens Type	Voltage	Case Color	Dimming
VVDRM014	W - 2700-3300K	S1M1 - 150 x 90 - Type I Medium	V27 - 100-277V	BK - Black	ND - No Dim
VVDRM028	N - 3700-4300K	S1S1 - 95 x 85 - Type I Short	V48 - 347-480V**	SG - Silver Gray	D1 - 0-10V Dim
VVDRM042	P - 4700-5300K	S1S2 - 95 x 85 - Type I Short Anti-Glare	D12 - 12V DC	WT - White	DL - Dali
VVDRM056	C - 5700-6500K	A2M1 - 150 x 75 - Type II Medium	D24 - 24V DC	BZ - Bronze	PD - Program Dim
	CS - Custom	A2M3 - 145 x 65 - Type II Medium		CS - Custom	(Specify Time Schedule)
	(Specify Kelvin/Nm)	A3L2 - 155 x 100 - Type III Long		(Specify Pantone/RAL)	
		A3M2 - 145 x 45 - Type III Medium			
		S5M1 - 75 Degree - Type V Medium			
		S5N2 - 18 Degree - Type V Narrow			
		S5W2 - 145 Degree - Type V Wide			
		S7M1 - 130 x 30 - Type VII Medium			

Ordering Example:
VVDRM014-N-S1M1-V27-BK-ND



**CSA & cUL Listed 62W - 308W Only



www.vividleds.us



info@vividleds.us



800.974.3570

The product on this page is a manufactured to order, non-stocking item. This product cannot be returned for refund or credit.

Revised 8/1/15



Consistent with LEED® goals
& Green Globes™ criteria
for light pollution reduction

Autobahn Series ATBS

Roadway & Security Lighting

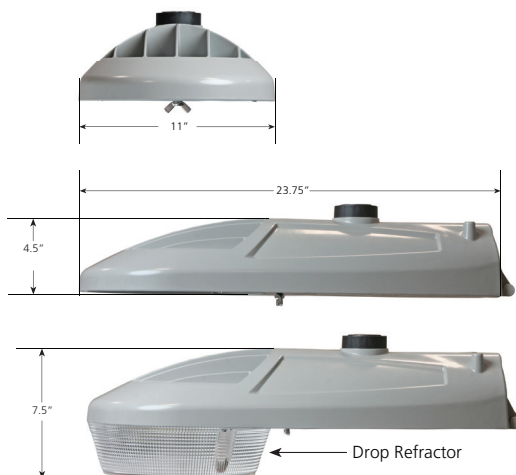
PRODUCT OVERVIEW



Applications:

Residential streets
Parking lots
General security lighting

DIMENSIONS



Effective Projected Area (EPA) The EPA for the ATBS is 0.3 sq. ft.,
Approx. Wt. = 12 lbs. (5 kg)

Features:

OPTICAL

Same Light: Performance is comparable to 50W – 150W HPS and up to 175W Mercury Vapor roadway and security lighting luminaires.

White Light: Correlated color temperature - standard 4000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, and V roadway distributions. When used with the optional acrylic refractor the unit provides approximately 10% uplight and increased vertical foot-candles

ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected 40-60% over comparable HID luminaires.

Robust Surge Protection: Three different surge protection options provide a minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-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).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2 – bolt clamping mechanism provides 3G vibration rating per ANSI C136.

The Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 5 pin and 7 pin receptacles optionally available.

Premium solid state locking-style photocontrol – PCSS (10 year rated life)
Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life)

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

STANDARDS

Rated for -40°C to 40°C ambient
CSA Certified to U.S. and Canadian standards
Complies with ANSI: C136.2, C136.10, C136.14,
C136.31, C136.15, C136.37

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

Autobahn Series ATBS

Roadway & Security Lighting

ORDERING INFORMATION

Example: ATBS A MVOLT R2

Series	Performance Packages	Voltage	Optics
ATBS Autobahn LED Roadway & Security	A 1,900 lumens B 2,600 lumens E 4,000 lumens F 4,800 lumens G 6,100 lumens H 7,100 lumens I 8,500 lumens	MVOLT Multi-volt, 120-277V	R2 Roadway Type II R3 Roadway Type III R5 Roadway Type V D2 Type II, Drop Refractor included D3 Type III, Drop Refractor included D5 Type V, Drop Refractor included

Options

Color Temperature (CCT)

(Blank)	4000K CCT, 70 CRI Min. (standard)
5K	5000K CCT, 70 CRI Min.

Paint

Blank	Gray (Standard)
BK	Black
WH	White
BZ	Bronze

Surge Protection

Standard 10kV/5kA SPD

Blank	Acuity SPD-10kV/5kA with inductive filter (Standard)
MP	MOV Pack
IL	SPD with Indicator Light

Misc.

HSS	House Side Shield
NL	NEMA Label
XL	Not CSA Certified

Controls

(Blank)	3 Pin NEMA Photocontrol Receptacle
NR¹	No Photocontrol Receptacle
DM²	0V-10V Dimmable Driver
P5	5 Pin Photocontrol Receptacle (dimmable driver included)
P7	7 Pin Photocontrol Receptacle (dimmable driver included)
PCSS¹	DTL DSS Photocontrol
PCL¹	DTL DLL Photocontrol 120-277V
AO	Field Adjustable Output
SH	Shorting Cap

Install Packages

PKGS	DTL DSS Photocontrol
PKGL	DTL DLL Photocontrol
Packages ship with selected photocontrol, 24", 1 1/4" diameter arm, 5' of prewire and mounting hardware	

Accessories

ATBSREF	Drop Refractor for field installation
ATBSHSS	House Side Shield for field installation
ATBSLTS	Light Trespass Shield for field installation

Notes

1. Not available with Install Packages.
2. Not available with AO option.



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023
www.americanelectriclighting.com

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Warranty Five-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx
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Please contact your sales representative for the latest product information.

Autobahn Series ATBS

Roadway & Security Lighting

PERFORMANCE PACKAGE

Performance Package	Distribution	Lumens	Input Watts	LPW	50K Hours	LLD @ 25°C 75K Hours	100K Hours
A	R2	1,978	19	104	0.93	0.89	0.85
	R3	1,972		104			
	R5	2,033		107			
	D2	1,884		99			
	D3	1,860		98			
	D5	1,933		102			
B	R2	2,611	27	97	0.93	0.89	0.85
	R3	2,603		96			
	R5	2,694		100			
	D2	2,487		92			
	D3	2,456		91			
	D5	2,564		95			
E	R2	4,196	40	105	0.93	0.89	0.85
	R3	3,977		99			
	R5	4,282		107			
	D2	3,996		100			
	D3	3,752		94			
	D5	4,091		102			
F	R2	4,661	47	99	0.93	0.89	0.85
	R3	4,821		103			
	R5	4,666		99			
	D2	4,439		94			
	D3	4,548		97			
	D5	4,554		97			
G	R2	6,235	50	125	0.94	0.92	0.90
	R3	6,101		122			
	R5	6,404		128			
	D2	5,938		119			
	D3	5,756		115			
	D5	6,193		124			
H	R2	7,194	60	120	0.94	0.92	0.90
	R3	7,141		119			
	R5	7,508		125			
	D2	6,851		114			
	D3	6,737		112			
	D5	7,150		131			
I	R2	8,653	76	114	0.94	0.92	0.90
	R3	8,525		112			
	R5	9,003		118			
	D2	8,241		108			
	D3	8,042		106			
	D5	8,574		124			

Note: Information shown above is based on nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.



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