National LED

EcoBright Area Light

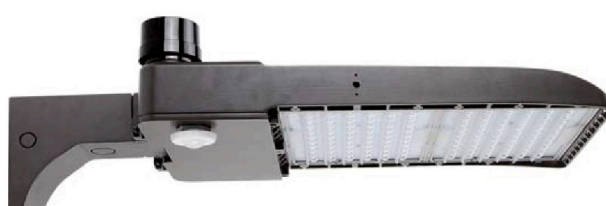| Project		Date	
Catalog Number		**Type**	

Medium Size: 100W/150W/200W

Large Size: 240W/300W/350W

DLC PREMIUM · c UL us LISTED E359489 · WET LOCATION

Specifications

Construction

• Rugged one-piece, die-cast aluminum housing secures the thermally conductive LED panel and electrical chamber
• Low profile, 3G vibration rated compact design minimizes wind load requirements.
• Housing is completely sealed against moisture and environmental contaminants.

Performance

• Available in IES Type III, IV, V distributions
• Light engines are available in standard 4000 K and 5000 K (70 CRI) configurations.
• Scalable Lumen Packages from 14,200 to 51,000 Lumens
• Optics are precisely designed to shape the distribution, maximizing efficiency and application spacing.
• For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed.
• The optics can conform to dark sky requirement.

Electrical

• Universal 120-277 VAC or 347-480 VAC input voltage
• Standard with 1-10V dimming driver(s)
• THD: ≤20%
• Power Factor: ≥90%

Controls

• Optional occupancy sensor
• Optional Photocell

Ambient Temperature

• Ambient operating temperature -40F to 113F.

Installation

• Suitable for mounting heights ranging from 26-50' in area lighting applications
• Round pole, Square pole, slipfitter and wall mount are available
• The design can be operated by one person to install the whole lamp

Lifespan

• Estimated 100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

Finish

• It's available in dark bronze, or optional black, silver gray or white.

Black	Dark Bronze	Silver Gray	White

Certification

• DesignLights Consortium™ Qualified.
 UL cUL wet location listed.

ORDERING GUIDE

Example: EBAL 140W LV 4K DB MS SQ T3 PA

Fixture Type	Wattage	Voltage	CCT	Finish	Photocell (option)	Sensor (optional)	Mounting	Photometry
EBAL Area Light Series	**100** 100W	**LV** 120-277V	**4K** 4000K	**DB** Dark Bronze	**P0** 120-277V Photocell	**WS** With Motion/ Photocell Sensor	**SQ** Square Pole Mount	**T3** TYPE III Photometry
	150 140W	**HV2** 347-480V	**5K** 5000K	**BK** Black	**P3** 347V Photocell	**Blank** Without Sensor	**SP** Slipfitter Mount	**T4** TYPE IV Photometry
	200 180W			**WH** White	**P4** 480V Photocell		**WM** Wall Mount	**T5** TYPE V Photometry
	240 250W			**SG** Silver Gray	**WO** Without Photocell			
	300 300W							
	350 400W							

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1

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Structural Design

Housing

Features a compact, one-piece die cast housing, saving costs versus models that are extruded or cast and require additional parts. The heat sink is included in the actual casting, further minimizing the need for additional parts.

Photo control

Optional photo control allows for further energy saving.

Standard Arm Mount

The design features an integral arm, increasing strength and simplifying installation.

Photometry

Optional Type III, Type IV, Type V Photometry as per applications.

PIR Sensor

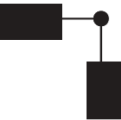Optional PIR sensor allows for security and energy saving
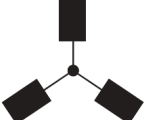
Performance Data

SYSTEM WATTS	VOLTAGE	DIST. TYPE	4000K(70CRI)		5000K(70CRI)	
			LUMENS	LPW	LUMENS	LPW
100W	120-277V/347-480V	3	14200lm	142 lm/W	14200lm	142 lm/W
	120-277V/347-480V	4	14200lm	142 lm/W	14200lm	142 lm/W
	120-277V/347-480V	5	14800lm	148 lm/W	14800lm	148 lm/W
150W	120-277V/347-480V	3	21200lm	141 lm/W	21200lm	141 lm/W
	120-277V/347-480V	4	21200lm	141 lm/W	21200lm	141 lm/W
	120-277V/347-480V	5	22200lm	148 lm/W	22200lm	148 lm/W
200W	120-277V/347-480V	3	28000lm	140 lm/W	28000lm	140 lm/W
	120-277V/347-480V	4	28000lm	140 lm/W	28000lm	140 lm/W
	120-277V/347-480V	5	28800lm	144 lm/W	28800lm	144 lm/W
240W	120-277V/347-480V	3	34000lm	142 lm/W	34000lm	142 lm/W
	120-277V/347-480V	4	34000lm	142 lm/W	34000lm	142 lm/W
	120-277V/347-480V	5	35500lm	148 lm/W	35500lm	148 lm/W
300W	120-277V/347-480V	3	42500lm	142 lm/W	42500lm	142 lm/W
	120-277V/347-480V	4	42500lm	142 lm/W	42500lm	142 lm/W
	120-277V/347-480V	5	43700lm	146 lm/W	43700lm	146 lm/W
350W	120-277V/347-480V	3	50000lm	143 lm/W	50000lm	143 lm/W
	120-277V/347-480V	4	50000lm	143 lm/W	50000lm	143 lm/W
	120-277V/347-480V	5	51000lm	146 lm/W	51000lm	146 lm/W

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2

Electrical Data

Number of Drivers	Driver Current (mA)	Nominal Power (W)	INPUT VOLTAGE (V)	CURRENT (Amps)
1	2600	100	120	0.83
		100	208	0.48
		100	240	0.42
		100	277	0.36
		100	347	0.29
		100	480	0.21
1	3850	150	120	1.25
		150	208	0.72
		150	240	0.63
		150	277	0.54
		150	347	0.43
		150	480	0.31
1	5100	200	120	1.67
		200	208	0.96
		200	240	0.83
		200	277	0.72
		200	347	0.58
		200	480	0.42
1	6300	240	120	2.00
		240	208	1.15
		240	240	1.00
		240	277	0.87
		240	347	0.69
		240	480	0.50
1	6000	300	120	2.50
		300	208	1.44
		300	240	1.25
		300	277	1.08
		300	347	0.86
		300	480	0.63
1	5800	350	120	2.92
		350	208	1.68
		350	240	1.46
		350	277	1.26
		350	347	1.01
		350	480	0.73

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EPA of Area Light

Item	1	2 @90°	2 @120°	2@180°	3 @90°	3 @120°	4 @90°
100W/150W/200W	0.4418	0.7145	0.8813	0.8836	1.0548	1.0135	1.0548
240W/300W/350W	0.5614	0.8471	1.105	1.1228	1.294	1.2503	1.294

BUG @5000K

| SYSTEM WATTS	VOLTAGE	DIST. TYPE	B	U	G
100W	120-277V/347-480V	3	2	0	2
150W	120-277V/347-480V	3	3	0	3
200W	120-277V/347-480V	3	3	0	3
240W	120-277V/347-480V	3	3	0	4
300W	120-277V/347-480V	3	3	0	4
350W	120-277V/347-480V	3	3	0	5

Photometrics

National LED offers a complete set of optical systems to meet every site lighting requirement. These systems provide remarkable flexibility in precisely matching light distribution patterns to specific site requirements.

Type 4 is suitable for applications where light is primarily required forward with minimal backlight. Typical installations include perimeter poles.

Type 5 optics produce a symmetrical square distribution pattern that distributes light equally on all sides of the luminaire. Type 5 luminaires is universal for most area lighting applications

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Type 3

Type 4

Type 5
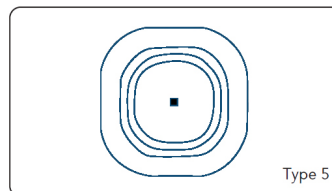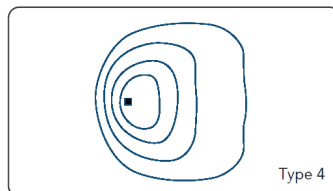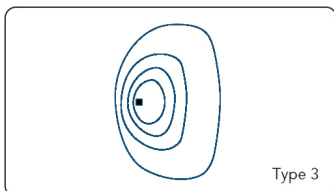
Mounting

• Standard versatile mounting arm accommodates multiple drilling patterns as well as square and round poles
• Wall Mount available for direct wall mounting and J-box mounting
• Optional for cast aluminum slipfitter mounting adapter (Compatible with more NLED mounting adaptors such as Tenon, suits for various application)

Mounting Options

Arm Mount
(4" and 5" Square and Round poles)
Standard versatile mounting arm is simple to install and can be used with existing poles for retrofit installations.
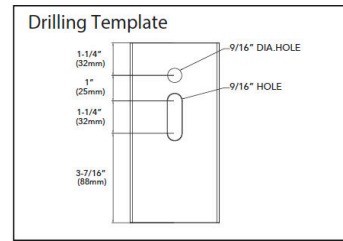

Slipfitter Mount
An optional cast aluminum mast arm adapter secures fixture head to nominal 2-3/8''O.D. horizontal steel tenon arm.

Wall Mount
Wall Mount is easy to install for direct wall mounting with 1/2' conduit wiring or standard J-box mounting

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4

Mounting Dimensions

Round pole 5" O.D.
Connecting piece
Luminaire

Square pole
Luminaire

Drilling Template

9/16" DIA.HOLE
9/16" HOLE

1-1/4" (32mm)
1" (25mm)
1-1/4" (32mm)
3-7/16" (88mm)
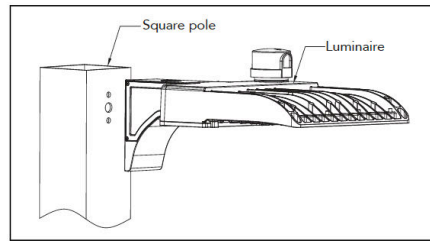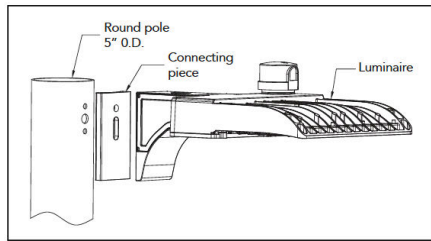
Dimension unit: inch/mm

Slipfitter Mount(100W/150W&200W)
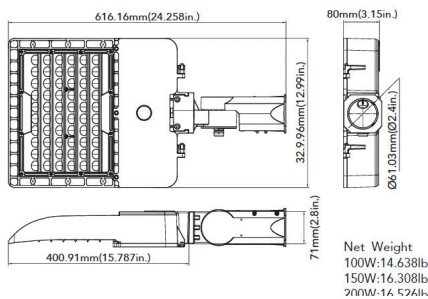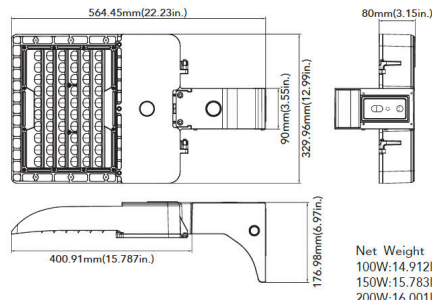

616.16mm(24.258in.)
80mm(3.15in.)
329.96mm(12.99in.)
32.9.96mm(12.99in.)
Ø61.03mm(Ø2.4in.)
71mm(2.8in.)
400.91mm(15.787in.)

Net Weight
100W:14.638lb
150W:16.308lb
200W:16.526lb

Pole Mount(100W/150W&200W)

564.45mm(22.23in.)
80mm(3.15in.)
90mm(3.55in.)
329.96mm(12.99in.)
32.9.96mm(12.99in.)
176.98mm(6.97in.)
400.91mm(15.787in.)

Net Weight
100W:14.912lb
150W:15.783lb
200W:16.001lb

Wall Mount(100W/150W&200W)

570.45mm(22.46in.)
80mm(3.15in.)
165.1mm(6.5in.)
50.8mm(2in.)
25.5mm(1in.)
152mm(5.98in.)
122mm(4.8in.)
4-Ø10.2mm(Ø0.4in.)
90mm(3.54in.)
32.9.96mm(12.99in.)
176.98mm(6.97in.)
203mm(7.99in.)
400.91mm(15.787in.)

Net Weight
100W:17.129lb
150W:18.341lb
200W:18.559lb

Slipfitter Mount(240W&300W&350W)

851.15mm(33.5in.)
80mm(3.15in.)
339.97mm(13.39in.)
Ø61.03mm(Ø2.4in.)
635.92mm(25.04in.)

Net Weight
240W:22.884lb
300W:24.515lb
350W:24.515lb

Pole Mount(240W&300W&350W)

799.44mm(31.48in.)
80mm(3.15in.)
339.97mm(13.39in.)
90mm(3.55in.)
176.98mm(6.97in.)
635.92mm(25.04in.)

Net Weight
240W:23.157lb
300W:24.097lb
350W:24.097lb

Wall Mount(240W&300W&350W)

807.31mm(31.78in.)
80mm(3.15in.)
165.1mm(6.5in.)
50.8mm(2in.)
25.5mm(1in.)
152mm(5.98in.)
122mm(4.8in.)
4-Ø10.2mm(Ø0.4in.)
339.97mm(13.39in.)
90mm(3.55in.)
176.98mm(6.97in.)
203mm(7.99in.)
635.92mm(25.04in.)

Net Weight
240W:25.375lb
300W:26.963lb
350W:26.963lb

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5