



Series: **Multi Purpose Area Light PRO (MPALDSR)** Fixture Type: **LED Area Light**

Project Name	Fixture Type	Catalog #	Quantity
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### Design Features & Specifications

#### HOUSING

- Premium powder-coat, die cast aluminum, dark bronze housing.

#### ELECTRICAL

- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277V AC voltage (50-60Hz) is standard.
- 0-10VDC dimming drivers are standard.
- Input transient surge protection = 6kV.
- Incoming AC power cord = 6'. Incoming dimming cord = 6'.
- Watertight, compression-type electrical connectors.
- Power factor > 90.
- Total harmonic distortion < 20%.

#### OPTICAL SYSTEM

- Polycarbonate lens.
- Field selectable 3000K (warm/neutral white), 4000K (neutral white) and 5000K (cool white) color temperatures\*.
- MPALDSR-242115L Tri-lumen selectable provide a range of 15,381 to 26,687 nominal lumens\*.
- MPALDSR-403530L Tri-lumen selectable provide a range of 28,342 to 42,653 nominal lumens\*.
- Long-life LEDs provide 167,000 hours of operation with at least 70% of initial lumen output (L70), and 51,000 hours with at least 90% of initial lumen output (L90)\*\*.
- Distribution selectable. Standard optic provides type III / type IV / type V distribution. Easy to configure with switch.
- Sensor-ready receptacle standard.
- Screw in sensor ready. Remote control required for programming (Sensor and remote control sold separately).
- Available factory installed NEMA photocell receptacle for 3-pin NEMA devices.
- LED color maintenance < -0.00495 chromaticity shift ( $\Delta u'v'$ ) over the initial 6,000 hours of operation.
- Color rendering index > 80

#### CODE COMPLIANCE

- cULus listed for wet locations.
- DLC premium listed.
- Complies with FCC part 15, class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.

#### WARRANTY

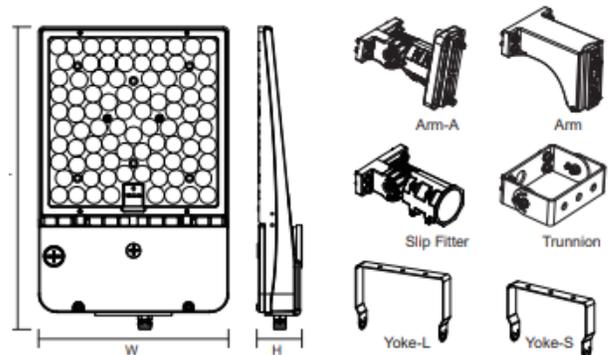
- 5 year warranty on all electronics and housing.

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### Multi Purpose Area Light

Catalog #	Description
<b>Complete Units</b>	
<b>Ordering Information</b>	
<b>Example:</b> MPALDSR-242115L-LKFS-T345-PR-UNV	
<b>MPALDSR</b>	<b>Fixture Series:</b> MPALDSR = Multi Purpose Area Light
	<b>Lumen Output</b> 242115L=24000/21000/15000lms 403530L = 40000/35000/30000lms
<b>LKFS</b>	<b>Field Selectable Color Temp.</b> 3000K 4000K 5000K
	<b>Distribution</b> T345 = Type III / Type IV / Type V Selectable
	<b>Mounting (One Required)</b> MPALDSR-ARM = Arm Mount 2 3/8" Pole MPALDSR-ARM-A = Arm Mount A MPALDSR-SF = Slip-fitter Mount 2 3/8" Pole MPALDSR-TM = Trunnion Mount MPALDSR-YOKE-S= Yoke Mount 242115:L MPALDSR-YOKE-L= Yoke Mount 403530:L *Pole tenons and tenon adapters available (page 2)
	<b>NEMA Photocell Receptacle*</b> PR = 3-pin NEMA photocell receptacle
	<b>Input Voltage</b> UNV = 120 -277 VAC

### Dimensional Information



Model #	L (in)	W (in)	H (in)	Weight (lbs)
MPALDSR-242115L	18.52	12.22	2.8	10.48
MPALDSR-403530L	21.26	13.68	2.83	12.69





Series:  
**Multi Purpose Area Light Pro (MPALPRO)**

Fixture Type :  
**LED Area Light**

Project Name	Fixture Type	Catalog #	Quantity
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

### Mounting Accessories

#### Sensor

- HD09VR-PHS-1 = Passive infrared sensor - maximum mounting height = 39 FT
- HD09VR-MHS-1 = Microwave step-dimming sensor - maximum mounting height = 49 FT
- HD05R = Remote control for HD09VR series Sensors (required to change factory settings)  
**\*HD09VR series has 5-dial setting capability.**

Factory settings for Sensor : detection area =100%, hold time = 5 sec, stand-by period = 0 sec, stand-by dimming level = 10%, daylight threshold = disabled

#### Photocell

- HD07VR-A-1 = 12VDC photocell; RCA jack, factory set to turn on at 10 lux, turns off at 100 lux

Note: Screws into Sensor RCA receptacle that comes standard on the fixture.

#### NEMA Photocell

- JL-205C23-IP65 = 120-277V 3-PIN NEMA Photocell; Rated up to 1800W; Turns on at 6 lux, Turns off at 50 lux
- 26WA86 = 480V 3-PIN NEMA Photocell; Rated up to 1800W; Turns on at 10-20 lux, turns off at 30-60 lux

Note: Fixture must be ordered with optional NEMA 3-pin photocell receptacle (-PR).

#### Mounting Option

- MPALDSR-ARM-A = Adjustable Arm Mount (round and square poles)
- MPALDSR-ARM = Arm Mount (2-3/8" pole or pole tenon, round and square poles)
- MPALDSR-SF = Slip Fitter (2-3/8" pole or pole tenon)
- MPALDSR-YOKE-S = Yoke for MPALDSR-242115L
- MPALDSR-YOKE-L = Yoke for MPALDSR-403530L
- MPALDSR-TM = Trunnion Mount
- LEDMPALPRO-D180BH = Double 180° Bullhorn Mounting Bracket
- LEDMPALPRO-WMB = Wall Mount Bracket
- LEDMPALPRO-WMB90 = 90° Wall Mount Bracket
- 4SQR-SP-D = 4" Round Pole Tenon
- 5SQR-SP-D = 5" Round Pole Tenon
- 4SQ-SP-D = 4" Square Pole Tenon
- 5SQ-SP-D = 5" Square Pole Tenon
- R60-SP2-90-D = 90° Double Tenon Adapter
- R60-SP2-180-D = 180° Double Tenon Adapter
- R60-SP3-90-D = 90° Triple Tenon Adapter
- R60-SP3-120-D = 120° Triple Tenon Adapter
- R60-SP4-90-D = 90° Quadruple Tenon Adapter

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**RENOVA Lighting Systems, Inc. • 36 Bellair Ave Warwick, RI 02886 • (800) 635-6682 • www.renova.com**

Project Name	Fixture Type	Catalog #	Quantity

## Photometric Data

### PHOTOMETRICS

**MPALDSR-242115L (Set to T3)**

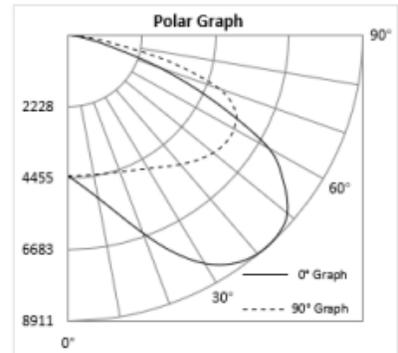
#### Luminaire Data

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	25,681
Input Wattage	182
Efficacy (lm/W)	141
Max. Cd.	8929.5 (360H, 42V)
IES Classification	Type III
Longitudinal Classification	Very Short

*Photometrics calculated at 4000k CCT and highest power setting.*

#### Luminaire Classification Systems (LCS)

LCS Zone	Lumens	%Lum
FL 0-30	2,432	9.5%
FM 30-60	8,409	33.1%
FH 60-80	3,038	15.3%
FVH 80-90	162	0.6%
BL 0-30	1,646	6.4%
BM 30-60	4,440	17.3%
BH 60-80	4,040	15.8%
BVH 80-90	515	2.0%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
<b>Total</b>	<b>25,681</b>	<b>100.0%</b>
BUG Rating	B4-U0-G4	



**MPALDSR-242115L (Set to T4)**

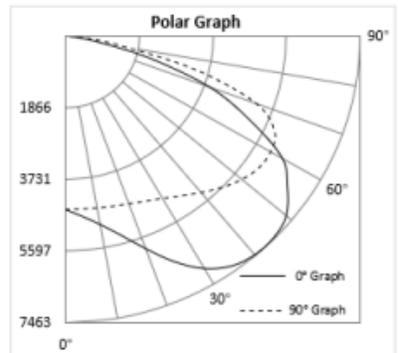
#### Luminaire Data

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	26,679
Input Wattage	176
Efficacy (lm/W)	151
Max. Cd.	7473.9 (360H, 42V)
IES Classification	Type IV
Longitudinal Classification	Very Short

*Photometrics calculated at 4000k CCT and highest power setting.*

#### Luminaire Classification Systems (LCS)

LCS Zone	Lumens	%Lum
FL 0-30	2,291	8.6%
FM 30-60	7,642	28.6%
FH 60-80	4,287	16.1%
FVH 80-90	208	0.8%
BL 0-30	1,827	6.8%
BM 30-60	5,474	20.5%
BH 60-80	4,498	16.9%
BVH 80-90	452	1.7%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
<b>Total</b>	<b>26,679</b>	<b>100.0%</b>
BUG Rating	B4-U0-G4	



**MPALDSR-242115L (Set to T5)**

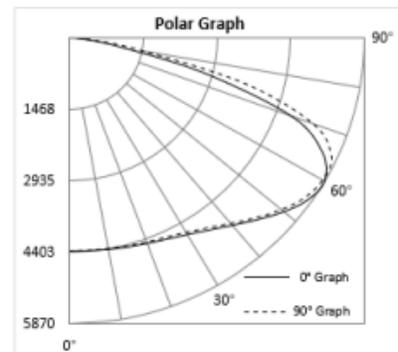
#### Luminaire Data

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	25,872
Input Wattage	182
Efficacy (lm/W)	142
Max. Cd.	6052.4 (45H, 62V)
IES Classification	Type VS
Longitudinal Classification	Short

*Photometrics calculated at 4000k CCT and highest power setting.*

#### Luminaire Classification Systems (LCS)

LCS Zone	Lumens	%Lum
FL 0-30	1,902	7.4%
FM 30-60	6,142	23.7%
FH 60-80	4,524	17.5%
FVH 80-90	238	0.9%
BL 0-30	1,879	7.3%
BM 30-60	6,006	23.2%
BH 60-80	4,843	18.7%
BVH 80-90	338	1.3%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
<b>Total</b>	<b>25,872</b>	<b>100.0%</b>
BUG Rating	B4-U0-G3	



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Series:  
**Multi Purpose Area Light Pro (MPALPRO)**

Fixture Type :  
**LED Area Light**

<b>Project Name</b>	<b>Fixture Type</b>	<b>Catalog #</b>	<b>Quantity</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Photometric Data**

**MPALDSR-403530L- (Set to T3)**

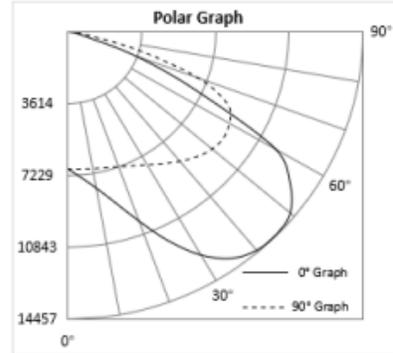
**Luminaire Data**

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	40,722
Input Wattage	290
Efficacy (lm/W)	140
Max. Cd.	14465 (360H, 44V)
IES Classification	Type III
Longitudinal Classification	Very Short

*Photometrics calculated at 4000k CCT and highest power setting.*

**Luminaire Classification Systems (LCS)**

LCS Zone	Lumens	%Lum
FL 0-30	3,792	9.3%
FM 30-60	13,708	33.7%
FH 60-90	6,459	15.9%
FVH 80-90	247	0.6%
BL 0-30	2,598	6.4%
BM 30-60	6,973	17.1%
BH 60-90	6,272	15.4%
BVH 80-90	672	1.7%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
<b>Total</b>	<b>40,722</b>	<b>100.0%</b>
BUG Rating	B5-U0-G5	



**MPALDSR-403530L- (Set to T4)**

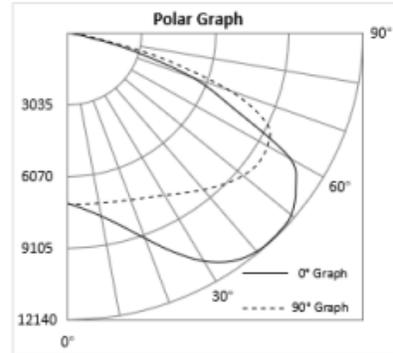
**Luminaire Data**

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	42,479
Input Wattage	282
Efficacy (lm/W)	151
Max. Cd.	12150 (360H, 43V)
IES Classification	Type IV
Longitudinal Classification	Very Short

*Photometrics calculated at 4000k CCT and highest power setting.*

**Luminaire Classification Systems (LCS)**

LCS Zone	Lumens	%Lum
FL 0-30	3,613	8.5%
FM 30-60	12,336	29.0%
FH 60-90	7,002	16.5%
FVH 80-90	315	0.7%
BL 0-30	2,909	6.8%
BM 30-60	8,725	20.5%
BH 60-90	6,987	16.4%
BVH 80-90	591	1.4%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
<b>Total</b>	<b>42,479</b>	<b>100.0%</b>
BUG Rating	B5-U0-G5	



**MPALDSR-403530L- (Set to T5)**

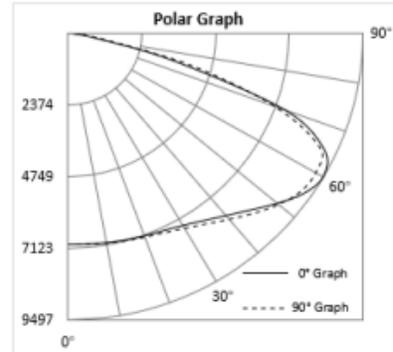
**Luminaire Data**

Description	CCT, Lumen, and Dist Selectable Area Light
Total Lumens	41,022
Input Wattage	290
Efficacy (lm/W)	142
Max. Cd.	9674.1 (22.5H, 61V)
IES Classification	Type VS
Longitudinal Classification	Very Short

*Photometrics calculated at 4000k CCT and highest power setting.*

**Luminaire Classification Systems (LCS)**

LCS Zone	Lumens	%Lum
FL 0-30	3,027	7.4%
FM 30-60	9,746	23.8%
FH 60-90	7,354	17.9%
FVH 80-90	360	0.9%
BL 0-30	3,008	7.3%
BM 30-60	9,607	23.4%
BH 60-90	7,498	18.3%
BVH 80-90	421	1.0%
UL 90-100	0	0.0%
UH 100-180	0	0.0%
<b>Total</b>	<b>41,022</b>	<b>100.0%</b>
BUG Rating	B5-U0-G3	



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Series:  
Multi Purpose Area Light Pro (MPALPRO)

Fixture Type :  
LED Area Light

Project Name	Fixture Type	Catalog #	Quantity
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Lumen Data

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
MPALDSR-242115L- (Set to T3)	Lumens	15,381	16,398	16,338	21,113	22,868	22,615	23,993	25,866	25,124
	Watt	109.96	107.16	109.92	161.95	156.27	162.26	190.42	182.31	189.5
	Efficacy	139.88	153.02	148.64	130.37	146.34	139.38	126.00	141.88	132.58

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
MPALDSR-242115L- (Set to T4)	Lumens	15,976	16,767	16,793	22,052	23,466	23,264	25,016	26,686	26,378
	Watt	107.35	105.1	107.26	156.47	152.33	156.16	182.33	176.91	182.22
	Efficacy	148.82	159.53	156.56	140.93	154.05	148.98	137.20	150.85	144.76

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
MPALDSR-242115L- (Set to T5)	Lumens	15,597	16,503	16,379	21,249	22,836	22,202	23,726	25,760	25,028
	Watt	110.32	107.19	109.95	162.08	156.31	161.84	189.35	181.92	189.3
	Efficacy	141.38	153.96	148.97	131.10	146.09	137.18	125.30	141.60	132.21

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
MPALDSR-403530L- (Set to T3)	Lumens	28,358	30,523	30,063	33,217	35,499	34,522	37,668	40,931	39,524
	Watt	208.54	202.04	208.46	252.55	242.79	251.34	306.36	293.29	305.15
	Efficacy	135.98	151.07	144.21	131.53	146.21	137.35	122.95	139.56	129.52

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Series:  
**Multi Purpose Area Light Pro (MPALPRO)**

Fixture Type :  
**LED Area Light**

<b>Project Name</b>	<b>Fixture Type</b>	<b>Catalog #</b>	<b>Quantity</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Lumen Data**

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
MPALDSR-403530L- (Set to T4)	Lumens	29,808	31,479	31,197	34,596	36,832	36,243	39,855	42,651	41,598
	Watt	202.7	197.61	202.17	243.2	236.45	242.7	294.12	284.53	293.19
	Efficacy	147.05	159.30	154.31	142.25	155.77	149.33	135.51	149.90	141.88

Series	Measurements	Low Lumens			Mid Lumens			High Lumens		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
MPALDSR-403530L- (Set to T5)	Lumens	28,557	30,596	30,044	32,892	35,509	34,603	37,520	40,893	39,484
	Watt	208.91	202.23	208.44	251.59	242.53	250.85	305.66	293.1	304.86
	Efficacy	136.70	151.29	144.14	130.74	146.41	137.94	122.75	139.52	129.52

**Electrical Data**

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
MPALDSR-242115L- (Set to T3)	3000K	0.92	0.46	0.40	1.35	0.67	0.58	1.59	0.79	0.69
	4000K	0.89	0.45	0.39	1.30	0.65	0.56	1.52	0.76	0.66
	5000K	0.92	0.46	0.40	1.35	0.68	0.59	1.58	0.79	0.68

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
MPALDSR-242115L- (Set to T4)	3000K	0.89	0.45	0.39	1.30	0.65	0.56	1.52	0.76	0.66
	4000K	0.88	0.44	0.38	1.27	0.63	0.55	1.47	0.74	0.64
	5000K	0.89	0.45	0.39	1.30	0.65	0.56	1.52	0.76	0.66

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**Multi Purpose Area Light Pro (MPALPRO)**

Fixture Type :  
**LED Area Light**

<b>Project Name</b>	<b>Fixture Type</b>	<b>Catalog #</b>	<b>Quantity</b>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Electrical Data**

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
MPALDSR-242115L (Set to T5)	3000K	0.92	0.46	0.40	1.35	0.68	0.59	1.58	0.79	0.68
	4000K	0.89	0.45	0.39	1.30	0.65	0.56	1.52	0.76	0.66
	5000K	0.92	0.46	0.40	1.35	0.67	0.58	1.58	0.79	0.68

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
MPALDSR-403530L (Set to T3)	3000K	1.74	0.87	0.75	2.10	1.05	0.91	2.55	1.28	1.11
	4000K	1.68	0.84	0.73	2.02	1.01	0.88	2.44	1.22	1.06
	5000K	1.74	0.87	0.75	2.09	1.05	0.91	2.54	1.27	1.10

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
MPALDSR-403530L (Set to T4)	3000K	1.69	0.84	0.73	2.03	1.01	0.88	2.45	1.23	1.06
	4000K	1.65	0.82	0.71	1.97	0.99	0.85	2.37	1.19	1.03
	5000K	1.68	0.84	0.73	2.02	2.02	0.88	2.44	1.22	1.06

Series	CCT	Input Amps (A)								
		Low Lumens			Mid Lumens			High Lumens		
		120V	240V	277V	120V	240V	277V	120V	240V	277V
MPALDSR-403530L (Set to T5)	3000K	1.74	0.87	0.75	2.10	1.05	0.91	2.55	1.27	1.10
	4000K	1.69	0.84	0.73	2.02	1.01	0.88	2.44	1.22	1.06
	5000K	1.74	0.87	0.75	2.09	1.05	0.91	2.54	1.27	1.10

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