

EMPALDSR

Multi-Purpose Area Luminaires. Field Selectable Distribution & Sensor Ready

HOUSING: Dark bronze powder-coat, die cast aluminum housing.

ELECTRICAL:

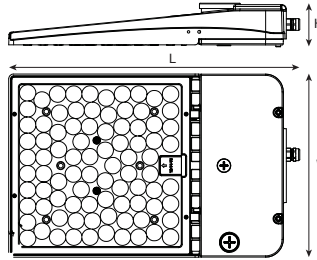
- Operating temperature (ambient): -40°C to 50°C (-40°F to 122°F).
- Universal 120-277V or 277-480V AC voltage (50-60Hz) with 6' incoming power cord.
- 0-10VDC dimming drivers are standard.
- Input transient surge protection = 6kV.
- Watertight, compression-type electrical connectors.
- Power Factor > 0.90.
- Total Harmonic Distortion < 20%.

OPTICAL SYSTEM:

- Polycarbonate lens.
- Field selectable 3000K, 4000K, and 5000K color temperatures.*
- EMPALDSR-242115L-3CCT selectable output delivers from 15,381 to 26,687 nominal lumens, with 3 settings.*
- EMPALDSR-242115L-3CCT-UNC selectable output delivers from 16,433 to 28,178 nominal lumens, with 3 settings.*
- EMPALDSR-403530L-3CCT selectable output delivers from 28,342 to 42,653 nominal lumens, with 3 settings.*
- EMPALDSR-403530L-3CCT-UNC selectable output delivers from 29,137 to 43,337 nominal lumens, with 3 settings.*
- 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 with switch. Standard optic provides Type III / Type IV / Type V distribution.
- Sensor-ready receptacle comes standard. Screw-in 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.

* Default kelvin temperature 4000K, highest lumen output, and Type III distribution.

**L70 & L90 hours are IES TM-21-11 calculated hours.



Model #	L (in)	W (in)	H (in)	Weight (lbs)
EMPALDSR-242115L-3CCT	18.52	12.22	2.8	10.48
EMPALDSR-403530L-3CCT	21.26	13.68	2.83	12.69

MOUNTING:

- Optional Arm A Mounting kit (Arm and Slip-fitter combo).
- Optional Arm Mounting kit.
- Optional Slip-fitter Mounting kit.
- Optional Yoke Mounting kit.
- Optional Trunnion Mounting kit.

CODE COMPLIANCE:

- cULus listed for wet locations.
- DLC premium listed for standard, DLC listed for UNC model.
- Complies with FCC Part 15, Class A.
- IP65 rated for ingress protection.
- IK08 rated for impact protection.
- This luminaire series is Dark Sky Ordinance Ready when manually set to 3000K CCT position and mounted at a 0-degree tilt. Final compliance with local dimming levels and light curfew mandates is the responsibility of the installer. Proper field configuration ensures alignment with state-level light pollution statutes.

WARRANTY: 5-year warranty on all electronics and housing.



ORDERING INFORMATION

Example: EMPALDSR-242115L-3CCT-UNC

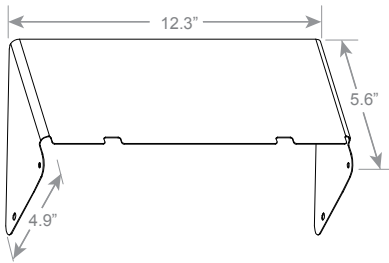
* Mounting hardware sold separately. One mounting option must be ordered.
Pole tenons and tenon adapters available. See all mounting accessories on page2.

Series	Nominal Lumen Output (Selectable)		Kelvin Selectable		Input Voltage		Installed Receptacle	
EMPALDSR	242115L	24,000 / 21,000 / 15,000 Lumens	3CCT	3000K/ 4000K/ 5000K	Blank	120-277V	PR*	NEMA Photocell Receptacle
	403530L	40,000 / 35,000 / 30,000 Lumens			UNC	277-480V		

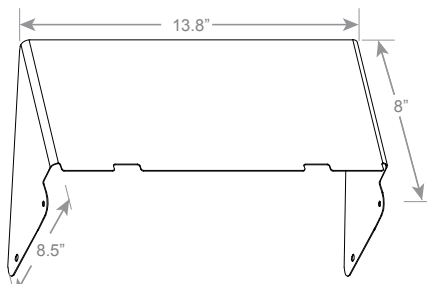
* Photocell sold separately.

MOUNTING ACCESSORIES (Order Separately)

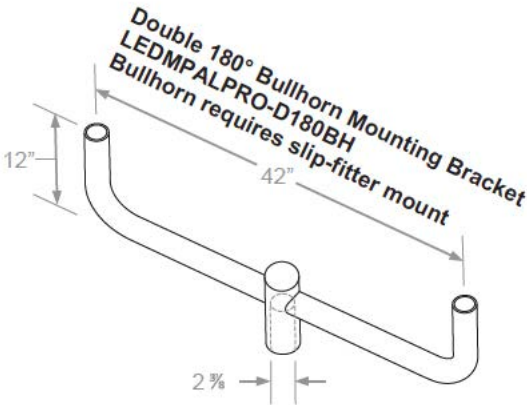
MPALDSR-ARM-A: Adjustable Arm Mount (round and square poles)
MPALDSR-ARM: Arm Mount (2-3/8" pole or pole tenon, round and square poles)
MPALDSR-SF: Slip Fitter (2-3/8" pole or pole tenon)
MPALDSR-YOKE-S: Yoke for EMPALDSR-242115L
MPALDSR-YOKE-L: Yoke for EMPALDSR-403530L
MPALDSR-TM: Trunnion Mount
LEDMPALPRO-D180BH: 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



Glare Shield for
EMPALDSR-242115L-3CCT
EMPALDSR-242115L-3CCT-GS



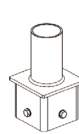
Glare Shield for
EMPALDSR-403530L-3CCT
EMPALDSR-403530L-3CCT-GS



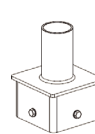
4SQR-SP-D



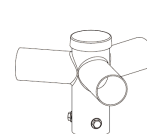
5SQR-SP-D



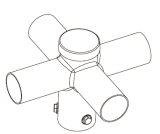
4SQ-SP-D



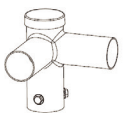
5SQ-SP-D



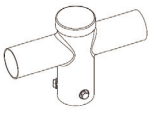
R60-SP3-120-D



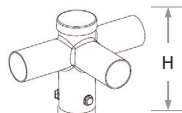
R60-SP4-90-D



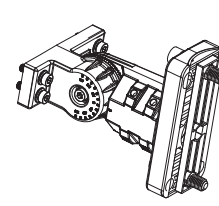
R60-SP2-90-D



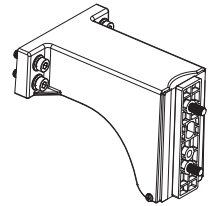
R60-SP2-180-D



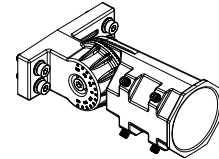
R60-SP3-90-D



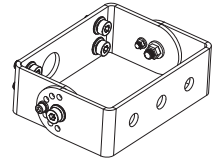
Arm-A



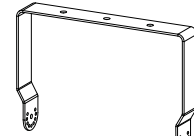
Arm



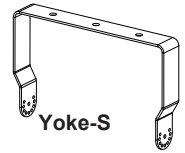
Slip Fitter



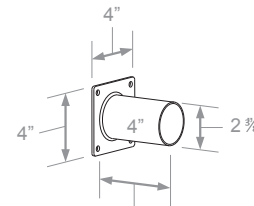
Trunnion



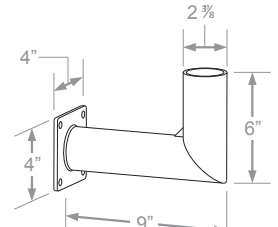
Yoke-L



Yoke-S



Wall Mount Bracket
LEDMPALPRO-WMB



Wall Mount Bracket, 90°
LEDMPALPRO-WMB90

Part Number	DESCRIPTION	L	W	H
4SQR-SP-D	4" round pole tenon	-	4.2"	8.6"
5SQR-SP-D	5" round pole tenon	-	5.2"	8.6"
4SQ-SP-D	4" square pole tenon	3.6"	3.6"	7.2"
5SQ-SP-D	5" square pole tenon	4.6"	4.6"	7.2"
R60-SP2-90-D	Tenon adapter 90° double	-	ID 2.5"	7.3"
R60-SP2-180-D	Tenon adapter 180° double	-	ID 2.5"	7.3"
R60-SP3-90-D	Tenon adapter 90° triple	-	ID 2.5"	7.3"
R60-SP3-120-D	Tenon adapter 120° triple	-	ID 2.5"	7.3"
R60-SP4-90-D	Tenon adapter 90° quadruple	-	ID 2.5"	7.3"

ACCESSORIES (ORDER SEPARATELY)

Sensors:

HD09VR-PH5-1: Passive infrared sensor - maximum mounting height = 39 FT

HD09VR-MH5-1: 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).

Glare Shield

EMPALDSR-GLARESHIELD-24L: Glare Shield for EMPALDSR-242115L-3CCT Models, Steel, Bronze

EMPALDSR-GLARESHIELD-40L: Glare Shield for EMPALDSR-403530L-3CCT Models, Steel, Bronze

COMPATIBLE DIMMERS AND CONTROLS

Manufacturer	Model Number	Dimmer Range	Load Switching Capacity
Best Lighting	DWS-010V-T	10%-100%	600W
Best Lighting	DWS-010V-D	10%-100%	600W
Leviton	IP710-LFZ	10%-100%	1200W
Lutron	DVSTV	10%-100%	450W

COMPATIBLE DIMMERS AND CONTROLS

Series	ARM MOUNT			ARM A MOUNT			SLIP FITTER MOUNT			TRUNNION MOUNT			YOKE MOUNT		
	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)	Front (ft²)	Side (ft²)	Face (ft²)
EMPALDSR-242115L-3CCT	1.78	0.562	0.285	1.82	0.659	0.301	1.81	0.537	0.256	1.75	0.446	0.238	1.95	0.408	0.277
EMPALDSR-403530L-3CCT	2.26	0.629	0.314	2.28	0.723	0.33	2.27	0.59	0.285	2.11	0.499	0.266	2.44	0.503	0.33

LUMEN TABLES & ELECTRICAL DATA

Series	Measurements		24L			21L			15L		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-242115 L-3CCT (Set to T3)	Lumens		23,993	25,866	25,124	21,113	22,868	22,615	15,381	16,398	16,338
	Watts		190.42	182.31	189.5	161.95	156.27	162.26	109.96	107.16	109.92
	Efficacy		126.00	141.88	132.58	130.37	146.34	139.38	139.88	153.02	148.64
	Input Current (A)	120V	0.92	0.89	0.92	1.35	1.30	1.35	1.59	1.52	1.58
		240V	0.46	0.45	0.46	0.67	0.65	0.68	0.79	0.76	0.79
		277V	0.40	0.39	0.40	0.58	0.56	0.59	0.69	0.66	0.68
Series	Measurements		24L			21L			15L		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-242115 L-3CCT (Set to T4)	Lumens		25,016	26,686	26,378	22,052	23,466	23,264	15,976	16,767	16,793
	Watts		182.33	176.91	182.22	156.47	152.33	156.16	107.35	105.1	107.26
	Efficacy		137.20	150.85	144.76	140.93	154.05	148.98	148.82	159.53	156.56
	Input Current (A)	120V	1.52	1.47	1.52	1.30	1.27	1.30	0.89	0.88	0.89
		240V	0.76	0.74	0.76	0.65	0.63	0.65	0.45	0.44	0.45
		277V	0.66	0.64	0.66	0.56	0.55	0.56	0.39	0.38	0.39
Series	Measurements		24L			21L			15L		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-242115 L-3CCT (Set to T5)	Lumens		23,726	25,760	25,028	21,249	22,836	22,202	15,597	16,503	16,379
	Watts		189.35	181.92	189.3	162.08	156.31	161.84	110.32	107.19	109.95
	Efficacy		125.30	141.60	132.21	131.10	146.09	137.18	141.38	153.96	148.97
	Input Current (A)	120V	1.58	1.52	1.58	1.35	1.30	1.35	0.92	0.89	0.92
		240V	0.79	0.76	0.79	0.68	0.65	0.67	0.46	0.45	0.46
		277V	0.68	0.66	0.68	0.59	0.56	0.58	0.40	0.39	0.40
Series	Measurements		40L			35L			30L		
			3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-403530 L-3CCT (Set to T3)	Lumens		37,668	40,931	39,524	33,217	35,499	34,522	28,358	30,523	30,063
	Watts		306.36	293.29	305.15	252.55	242.79	251.34	208.54	202.04	208.46
	Efficacy		122.95	139.56	129.52	131.53	146.21	137.35	135.98	151.07	144.21
	Input Current (A)	120V	2.55	2.44	2.54	2.10	2.02	2.09	1.74	1.68	1.74
		240V	1.28	1.22	1.27	1.05	1.01	1.05	0.87	0.84	0.87
		277V	1.11	1.06	1.10	0.91	0.88	0.91	0.75	0.73	0.75

Series	Measurements	40L			35L			30L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-403530 L-3CCT (Set to T4)	Lumens	39,855	42,651	41,598	34,596	36,832	36,243	29,808	31,479	31,197
	Watts	294.12	284.53	293.19	243.2	236.45	242.7	202.7	197.61	202.17
	Efficacy	135.51	149.90	141.88	142.25	155.77	149.33	147.05	159.30	154.31
	Input Current (A)	120V	2.45	2.37	2.44	2.03	1.97	2.02	1.69	1.65
		240V	1.23	1.19	1.22	1.01	0.99	1.01	0.84	0.82
		277V	1.06	1.03	1.06	0.88	0.85	0.88	0.73	0.71
Series	Measurements	40L			35L			30L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-403530 L-3CCT (Set to T5)	Lumens	37,520	40,893	39,484	32,892	35,509	34,603	28,557	30,596	30,044
	Watts	305.66	293.1	304.86	251.59	242.53	250.85	208.91	202.23	208.44
	Efficacy	122.75	139.52	129.52	130.74	146.41	137.94	136.70	151.29	144.14
	Input Current (A)	120V	2.55	2.44	2.54	2.10	2.02	2.09	1.74	1.69
		240V	1.27	1.22	1.27	1.05	1.01	1.05	0.87	0.84
		277V	1.10	1.06	1.10	0.91	0.88	0.91	0.75	0.73
Series	Measurements	24L			21L			15L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-242115L- 3CCT-UNC (Set to T3)	Lumens	25,053	27,064	26,168	22,492	24,101	23,539	16,433	17,466	17,280
	Watts	188.3	182.4	188.9	163.1	158.1	163.6	112.2	110.1	112.8
	Efficacy	133.1	148.4	138.6	137.9	152.5	143.9	146.4	158.7	153.2
	Input Current (A)	277V	0.68	0.66	0.68	0.59	0.57	0.59	0.41	0.40
		347V	0.54	0.53	0.54	0.47	0.46	0.47	0.32	0.32
		480V	0.39	0.38	0.39	0.34	0.33	0.34	0.23	0.23
Series	Measurements	24L			21L			15L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-242115L- 3CCT-UNC (Set to T4)	Lumens	26,565	28,178	27,628	23,492	24,875	24,599	17,157	17,925	17,862
	Watts	182.1	177.8	182.8	157.8	154.3	158.4	109.7	107.9	110.1
	Efficacy	145.9	158.5	151.2	148.9	161.2	155.3	156.5	166.2	162.2
	Input Current (A)	277V	0.66	0.64	0.66	0.57	0.56	0.57	0.40	0.39
		347V	0.52	0.51	0.53	0.45	0.44	0.46	0.32	0.31
		480V	0.38	0.37	0.38	0.33	0.32	0.33	0.23	0.23

Series	Measurements	24L			21L			15L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-242115L-3 CCT-UNC (Set to T5)	Lumens	25,081	27,141	26,224	22,517	24,092	23,412	16,623	17,569	17,354
	Watts	188.1	182.3	188.8	163.1	158.1	163.2	112.1	109.8	112.9
	Efficacy	133.3	148.9	138.9	138.1	152.4	143.5	148.3	160.0	153.7
	Input Current (A)	277V	0.68	0.66	0.68	0.59	0.57	0.59	0.40	0.41
		347V	0.54	0.53	0.54	0.47	0.46	0.47	0.32	0.33
		480V	0.39	0.38	0.39	0.34	0.33	0.34	0.23	0.24
Series	Measurements	40L			35L			30L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-403530L-3 CCT-UNC (Set to T3)	Lumens	38,518	41,736	40,535	33,479	36,120	35,453	29,501	31,305	30,895
	Watts	299.5	288.7	301.0	248.3	240.6	248.9	206.9	200.8	208.1
	Efficacy	128.6	144.6	134.7	134.9	150.1	142.4	142.6	155.9	148.4
	Input Current (A)	120V	1.08	1.04	1.09	0.90	0.87	0.90	0.75	0.75
		240V	0.86	0.83	0.87	0.72	0.69	0.72	0.60	0.60
		277V	0.62	0.60	0.63	0.52	0.50	0.52	0.43	0.43
Series	Measurements	40L			35L			30L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-403530L-3 CCT-UNC (Set to T4)	Lumens	40,515	43,337	42,688	34,874	37,161	37,018	30,268	32,016	31,966
	Watts	288.2	280.5	289.4	239.6	234.0	240.7	200.8	196.7	201.4
	Efficacy	140.6	154.5	147.5	145.6	158.8	153.8	150.8	162.7	158.7
	Input Current (A)	120V	1.04	1.01	1.04	0.86	0.84	0.87	0.72	0.71
		240V	0.83	0.81	0.83	0.69	0.67	0.69	0.58	0.57
		277V	0.60	0.58	0.60	0.50	0.49	0.50	0.42	0.41
Series	Measurements	40L			35L			30L		
		3000K	4000K	5000K	3000K	4000K	5000K	3000K	4000K	5000K
EMPALDSR-403530L-3 CCT-UNC (Set to T5)	Lumens	38,313	41,646	40,497	33,418	35,988	35,082	29,137	31,155	30,803
	Watts	299.4	288.7	301.0	247.8	240.2	248.8	207.1	201.0	208.1
	Efficacy	127.9	144.3	134.5	134.9	149.8	141.0	140.7	155.0	148.1
	Input Current (A)	120V	1.08	1.04	1.09	0.89	0.87	0.90	0.75	0.75
		240V	0.86	0.83	0.87	0.71	0.69	0.72	0.60	0.60
		277V	0.62	0.60	0.63	0.52	0.50	0.52	0.43	0.43