



General: Warp is a family low brightness, high-performance LED downlights suitable to illuminate both commercial and residential applications. Warp's ultra-thin flange makes the trim blend quietly with the surrounding ceiling. A polycarbonate lens combined with optical components that have different levels of opacity guarantees a clean beam and optimal efficiency throughout the entire Warp family.

Fixture Body: Powder Coated Die-Cast Aluminum

Trim: Bezel, Round or Square.

Mounting: Recessed ceiling.

Dimensions/Weight:

Round: 2.7" (0.10 lbs) – 4.3" (0.17 lbs) – 4.5" (0.55 lbs) – 5.1" (1.13 lbs)

Square: 2.0"@2W (0.10 lbs) – 2.0"@4W (0.17 lbs) – 2.8" (0.55 lbs) – 3.9" (1.13 lbs)

Driver: Remote, 120-277V Dimmable 0-10V or Non-Dim.

Operation: Constant Current (CC)

CC features: Less susceptible to voltage drop (exceeding 32' distance); Allows for dimming down to 0.1%; Fixtures need to be wired in series.

Wattages: 3W (2.7" Round & 2.0" Square) – 4W (4.3" Round & 2.0" Square) – 10W (4.5" Round & 2.8" Square) – 15W (5.1" Round & 3.9" Square)

Cable: Fixture comes with 0.56' of power cable (fixtures larger than 3.9" are equipped with a 0.9' power cord).

IP rating: IP44 (with an IP65 rating of the optical chamber). Fixture is protected against solid objects greater than 0.04" and against water splashes on the fixture trim or lens. Not suitable for Outdoor applications or direct water jets.

ETL Certification: ETL, damp location

Optics: Asymmetric (refer to Warp Adjustable and Fixed spec sheets for additional options). Available in Spot – Flood – Wide Flood. Fixture is also available with Honeycomb louver.

Color temperatures: 2700K – 3000K – 3500K – 4000K.

CRI: 92

Lumen Maintenance: L70 projections tested at Tj 65° C and Ta 25°.

Warranty: 5-year Limited Warranty on fixtures. 1-year Limited Warranty on Remote Drivers.

Contents

- 2 product configurator
- 4 diagrams / drivers
- 6 photometry



2.0" (3W)



4.3" (4W)



3.9" (15W)



5.1" (25W)

Round Fixed Delivered Lumens*	2.7" (3W)	4.3" (4W)	4.5" (10W)	5.1" (15W)
SP	156	269	700	1190
FL	153	233	725	1075
WFL	137	244	635	1012

*Values shown for 3000K

Round Honeycomb Delivered Lumens*	2.7" (3W)	4.3" (4W)	4.5" (10W)	5.1" (15W)
SP	126	203	435	1042
FL	139	149	507	908
WFL	102	160	387	709

*Values shown for 3000K

Square Fixed Delivered Lumens*	2.0" (3W)	2.0" (4W)	2.8" (10W)	3.9" (15W)
SP	170	275	678	933
FL	165	249	725	1199
WFL	182	267	638	1157

*Values shown for 3000K

Square Honeycomb Delivered Lumens*	2.0" (3W)	2.0" (4W)	2.8" (10W)	3.9" (15W)
SP	126	203	435	1042
FL	139	149	507	908
WFL	102	160	387	709

*Values shown for 3000K

Warp Asymmetric

ROUND

Ordering Information							(Required)
WAR			27	3 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	RWH = Round White RBL = Round Black	AS = Asymmetric	27 = 2.7"	3 CC = 3W / Constant Current (1000mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	ASHC = Asymmetric Honeycomb	27 = 2.7"	3 CC = 3W / Constant Current (1000mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Ordering Information							(Required)
WAR			43	4 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	RWH = Round White RBL = Round Black	AS = Asymmetric	43 = 4.3"	4 CC = 4W / Constant Current (350mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	ASHC = Asymmetric Honeycomb	43 = 4.3"	4 CC = 4W / Constant Current (350mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Ordering Information							(Required)
WAR			45	10 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	RWH = Round White RBL = Round Black	AS = Asymmetric	45 = 4.5"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	ASHC = Asymmetric Honeycomb	45 = 4.5"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Ordering Information							(Required)
WAR			51	15 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	RWH = Round White RBL = Round Black	AS = Asymmetric	51 = 5.1"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	ASHC = Asymmetric Honeycomb	51 = 5.1"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Warp Asymmetric

SQUARE

Ordering Information							(Required)
WAR			20	3 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	SWH = Square White SBL = Square Black	AS = Asymmetric	20 = 2.0"	3 CC = 3W / Constant Current (1000mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	ASHC = Asymmetric Honeycomb	20 = 2.0"	3 CC = 3W / Constant Current (1000mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Ordering Information							(Required)
WAR			20	4 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	SWH = Square White SBL = Square Black	AS = Asymmetric	20 = 2.0"	4 CC = 4W / Constant Current (350mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	ASHC = Asymmetric Honeycomb	20 = 2.0"	4 CC = 4W / Constant Current (350mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

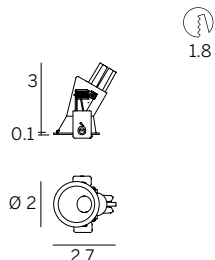
Ordering Information							(Required)
WAR			28	10 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	SWH = Square White SBL = Square Black	AS = Asymmetric	28 = 2.8"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	ASHC = Asymmetric Honeycomb	28 = 2.8"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Ordering Information							(Required)
WAR			39	15 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver ¹
WAR = Warp	SWH = Square White SBL = Square Black	AS = Asymmetric	39 = 3.9"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	ASHC = Asymmetric Honeycomb	39 = 3.9"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot FL = Flood WFL = Wide Flood	

Warp Asymmetric

ROUND

2.7" 2W 630mA

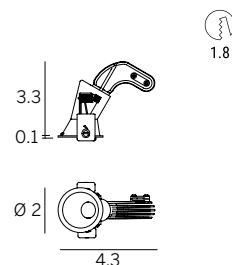


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-630	SOLO50W-630	SOLO100W-630
0-10V EldoLED ECOdrive 30W for 1-10 fixtures	0-10V EldoLED SOLOdrive 50W for 1-16 fixtures	0-10V EldoLED SOLOdrive 100W for 1-32 fixtures

4.3" 4W 350mA

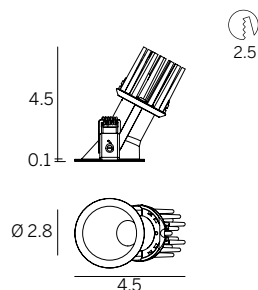


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-350	SOLO50W-350	SOLO100W-350
0-10V EldoLED ECOdrive 30W for 1-3 fixtures	0-10V EldoLED SOLOdrive 50W for 1-6 fixtures	0-10V EldoLED SOLOdrive 100W for 1-12 fixtures

4.5" 10W 800mA

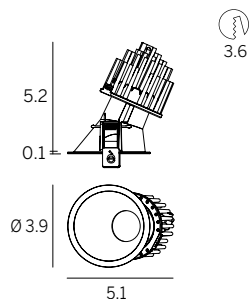


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-800	SOLO100W-800
0-10V EldoLED ECOdrive 30W for 1-2 fixtures	0-10V EldoLED SOLOdrive 100W for 1-4 fixtures

5.1" 15W 400mA



DRIVER OPTIONS (pick one)

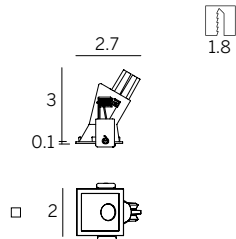
C.C. Power supply options (remote only)

ECO30W-400	SOLO50W-400	SOLO100W-400
0-10V EldoLED ECOdrive 30W for 1 fixture	0-10V EldoLED SOLOdrive 50W for 1-2 fixtures	0-10V EldoLED SOLOdrive 100W for 1-4 fixtures

Warp Asymmetric

SQUARE

2.0" 2W 630mA

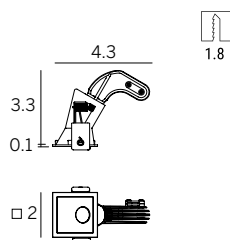


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-630	SOLO50W-630	SOLO100W-630
0-10V EldoLED ECOdrive 30W for 1-10 fixtures	0-10V EldoLED SOLOdrive 50W for 1-16 fixtures	0-10V EldoLED SOLOdrive 100W for 1-32 fixtures

2.0" 4W 350mA

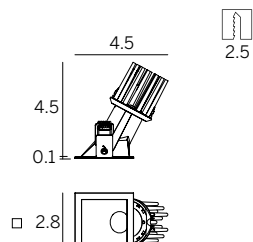


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-350	SOLO50W-350	SOLO100W-350
0-10V EldoLED ECOdrive 30W for 1-3 fixtures	0-10V EldoLED SOLOdrive 50W for 1-6 fixtures	0-10V EldoLED SOLOdrive 100W for 1-12 fixtures

2.8" 10W 800mA

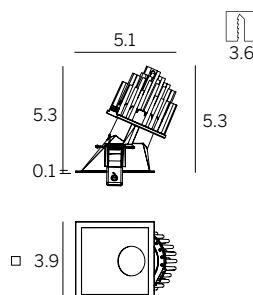


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-800	SOLO100W-800
0-10V EldoLED ECOdrive 30W for 1-2 fixtures	0-10V EldoLED SOLOdrive 100W for 1-4 fixtures

3.9" 15W 400mA



DRIVER OPTIONS (pick one)

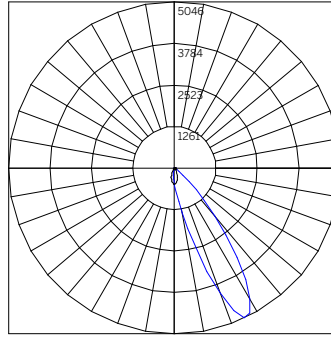
C.C. Power supply options (remote only)

ECO30W-400	SOLO50W-400	SOLO100W-400
0-10V EldoLED ECOdrive 30W for 1 fixture	0-10V EldoLED SOLOdrive 50W for 1-2 fixtures	0-10V EldoLED SOLOdrive 100W for 1-4 fixtures

Warp Asymmetric

ROUND ASYMMETRIC

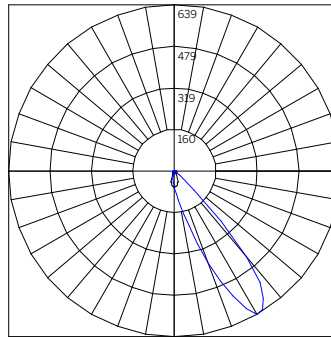
WAR-RWH-AS-...-SP...					
Delivered Lumens -Spot					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	-	251	651	1113
	92-30-	-	269	700	1190
	92-35-	-	269	700	1190
	92-40-	-	290	750	1280
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		-	0.23	0.59	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Spot WAR-RWH-AS-51-15-CC-92-30-SP*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1262	—
4	315	—
6	140	—
8	79	—
10	50	—
12	35	—
14	26	—
16	20	—
18	16	—
20	13	—

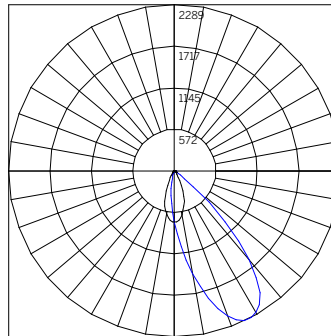
WAR-RWH-AS-...-NFL...					
Delivered Lumens - Narrow Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	143	-	-	-
	92-30-	156	-	-	-
	92-35-	156	-	-	-
	92-40-	162	-	-	-
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		1.00	-	-	-



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 3W 3000K Narrow Flood WAR-RWH-AS-27-3-CC-92-30-NFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	160	—
4	40	—
6	18	—
8	10	—
10	6	—
12	4	—
14	3	—
16	2	—
18	2	—
20	2	—

WAR-RWH-AS-...-FL...					
Delivered Lumens - Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	140	218	673	1007
	92-30-	153	233	725	1075
	92-35-	153	233	725	1075
	92-40-	159	251	777	1157
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		0.14	0.22	0.67	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Flood WAR-RWH-AS-51-15-CC-92-30-FL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	573	—
4	143	—
6	64	—
8	36	—
10	23	—
12	16	—
14	12	—
16	9	—
18	7	—
20	6	—

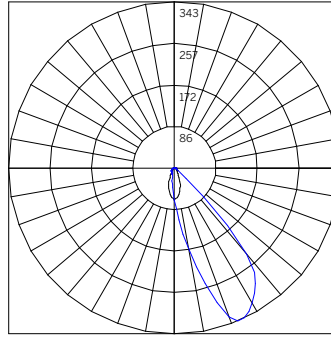
*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

Warp Asymmetric

ROUND ASYMMETRIC

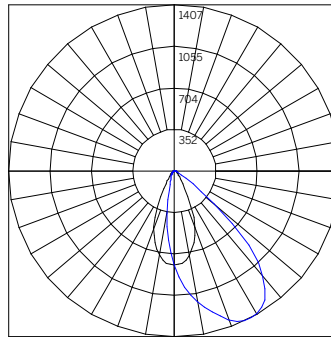
WAR-RWH-AS-...-MWFL...					
Delivered Lumens -Medium Wide Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	126	-	-	-
	92-30-	137	-	-	-
	92-35-	137	-	-	-
	92-40-	142	-	-	-
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		1.00	-	-	-



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 3W 3000K Medium Wide Flood WAR-RWH-AS-27-3-CC-92-30-MWFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	86	—
4	22	—
6	10	—
8	5	—
10	3	—
12	2	—
14	2	—
16	1	—
18	1	—
20	1	—

WAR-RWH-AS-...-WFL...					
Delivered Lumens - Wide Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	—	228	590	945
	92-30-	—	244	635	1012
	92-35-	—	244	635	1012
	92-40-	—	263	680	1087
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		—	0.24	0.63	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Wide Flood WAR-RWH-AS-51-15-CC-92-30-WFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	352	—
4	88	—
6	39	—
8	22	—
10	14	—
12	10	—
14	7	—
16	6	—
18	4	—
20	4	—

*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

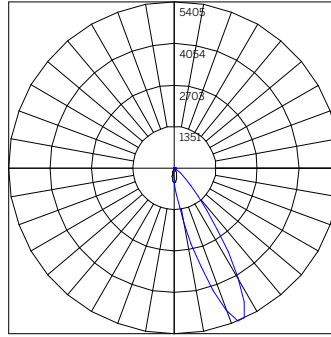
Warp Asymmetric

ROUND ASYMMETRIC HONEYCOMB

WAR-RWH-ASHC-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	—	190	404	973
	92-30-	—	203	435	1042
	92-35-	—	203	435	1042
	92-40-	—	219	467	1122
		Polar Plot / Cone Of Light Multiplier			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		—	0.19	0.42	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

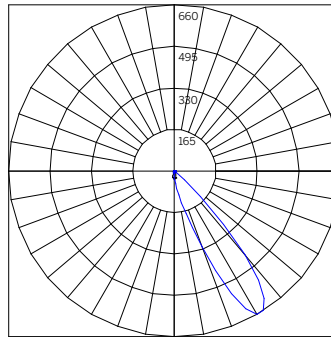
CONE OF LIGHT - 15W 3000K Spot WAR-RWH-ASHC-51-15-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1352	—
4	338	—
6	150	—
8	84	—
10	54	—
12	38	—
14	28	—
16	21	—
18	17	—
20	14	—

WAR-RWH-ASHC-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	116	—	—	—
	92-30-	126	—	—	—
	92-35-	126	—	—	—
	92-40-	131	—	—	—
		Polar Plot / Cone Of Light Multiplier			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		1.00	—	—	—



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

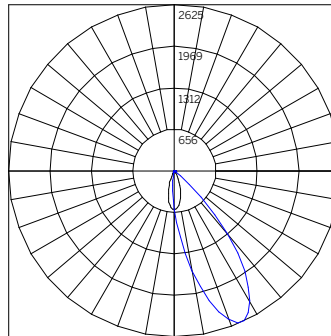
CONE OF LIGHT - 3W 3000K Narrow Flood WAR-RWH-ASHC-27-3-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	165	—
4	41	—
6	18	—
8	10	—
10	7	—
12	5	—
14	3	—
16	3	—
18	2	—
20	2	—

WAR-RWH-ASHC-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	127	139	470	848
	92-30-	139	149	507	908
	92-35-	139	149	507	908
	92-40-	144	160	543	977
		Polar Plot / Cone Of Light Multiplier			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		0.15	0.16	0.56	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Flood WAR-RWH-ASHC-51-15-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	656	—
4	164	—
6	73	—
8	41	—
10	26	—
12	18	—
14	13	—
16	10	—
18	8	—
20	7	—

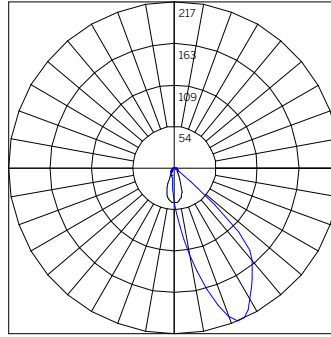
*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

Warp Asymmetric

ROUND ASYMMETRIC HONEYCOMB

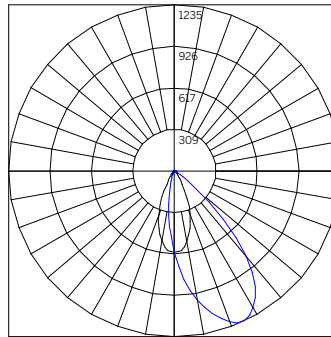
WAR-RWH-ASHC-...-MWFL...					
Delivered Lumens - Medium Wide Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	93	—	—	—
	92-30-	102	—	—	—
	92-35-	102	—	—	—
	92-40-	106	—	—	—
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		1.00	—	—	—



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 3W 3000K Medium Wide Flood WAR-RWH-ASHC-51-15-CC-92-30-SP*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	55	—
4	14	—
6	6	—
8	3	—
10	2	—
12	2	—
14	1	—
16	1	—
18	1	—
20	1	—

WAR-RWH-ASHC-...-WFL...					
Delivered Lumens - Wide Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	—	150	359	662
	92-30-	—	160	387	709
	92-35-	—	160	387	709
	92-40-	—	173	415	763
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		—	0.23	0.55	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Wide Flood WAR-RWH-ASHC-51-15-CC-92-30-WFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	309	—
4	77	—
6	34	—
8	19	—
10	12	—
12	9	—
14	6	—
16	5	—
18	4	—
20	3	—

*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

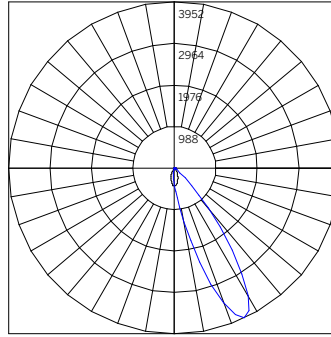
Warp Asymmetric

SQUARE ASYMMETRIC

WAR-SWH-AS-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
CCT	92-27-	—	256	630	873
	92-30-	—	275	678	933
	92-35-	—	275	678	933
	92-40-	—	296	727	1004
		Polar Plot / Cone Of Light Multiplier			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
		—	0.29	0.73	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

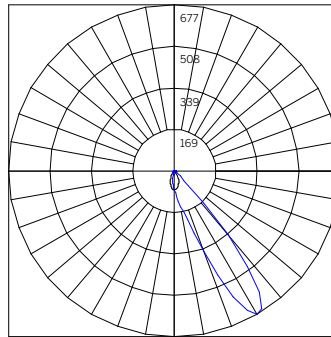
CONE OF LIGHT - 15W 3000K Spot WAR-SWH-AS-39-15-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	988	—
4	247	—
6	110	—
8	62	—
10	40	—
12	27	—
14	20	—
16	15	—
18	12	—
20	10	—

WAR-SWH-AS-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
CCT	92-27-	156	—	—	—
	92-30-	170	—	—	—
	92-35-	170	—	—	—
	92-40-	177	—	—	—
		Polar Plot / Cone Of Light Multiplier			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
		1.00	—	—	—



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

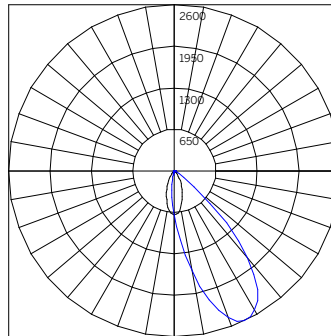
CONE OF LIGHT - 3W 3000K Narrow Flood WAR-SWH-AS-20-3-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	170	—
4	42	—
6	19	—
8	11	—
10	7	—
12	5	—
14	3	—
16	3	—
18	2	—
20	2	—

WAR-SWH-AS-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
CCT	92-27-	151	233	675	1121
	92-30-	165	249	725	1199
	92-35-	165	249	725	1199
	92-40-	172	269	778	1290
		Polar Plot / Cone Of Light Multiplier			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
		0.14	0.21	0.60	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Flood WAR-SWH-AS-39-15-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	650	—
4	163	—
6	72	—
8	41	—
10	26	—
12	18	—
14	13	—
16	10	—
18	8	—
20	7	—

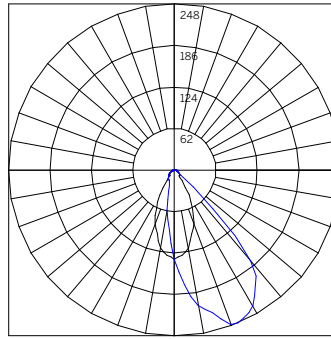
*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

Warp Asymmetric

SQUARE ASYMMETRIC

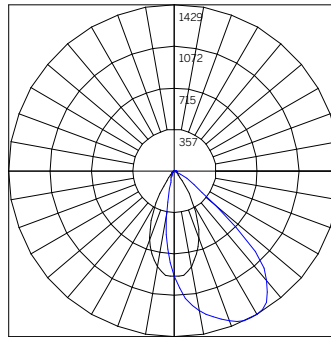
WAR-SWH-AS-...-MWFL...					
Delivered Lumens - Medium Wide Flood					
		Diameter [Wattage]			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
CCT	92-27-	167	-	-	-
	92-30-	182	-	-	-
	92-35-	182	-	-	-
	92-40-	190	-	-	-
Polar Plot / Cone Of Light Multiplier					
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
		1.00	-	-	-



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 3W 3000K Medium Wide Flood WAR-SWH-AS-20-3-CC-92-30-MWFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	62	-
4	16	-
6	7	-
8	4	-
10	2	-
12	2	-
14	1	-
16	1	-
18	1	-
20	1	-

WAR-SWH-AS-...-WFL...					
Delivered Lumens - Wide Flood					
		Diameter [Wattage]			
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
CCT	92-27-	-	250	594	1082
	92-30-	-	267	638	1157
	92-35-	-	267	638	1157
	92-40-	-	288	684	1245
Polar Plot / Cone Of Light Multiplier					
		20 [3 CC]	20 [4 CC]	28 [10 CC]	39 [15 CC]
		-	0.23	0.55	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Wide Flood WAR-SWH-AS-39-15-CC-92-30-WFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	358	-
4	89	-
6	40	-
8	22	-
10	14	-
12	10	-
14	7	-
16	6	-
18	4	-
20	4	-

*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

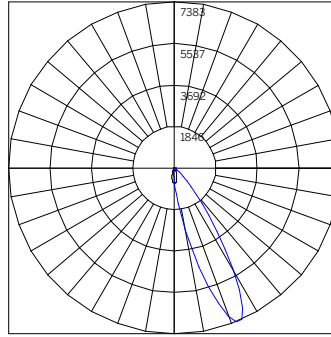
Warp Asymmetric

SQUARE ASYMMETRIC HONEYCOMB

WAR-SWH-ASHC-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	—	190	404	973
	92-30-	—	203	435	1042
	92-35-	—	203	435	1042
	92-40-	—	219	467	1122
		Polar Plot / Cone Of Light Multiplier			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		—	0.19	0.42	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

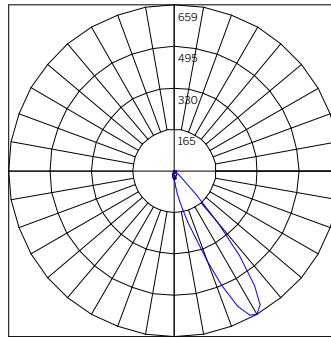
CONE OF LIGHT - 15W 3000K Spot WAR-RWH-ASHC-51-15-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1352	—
4	338	—
6	150	—
8	84	—
10	54	—
12	38	—
14	28	—
16	21	—
18	17	—
20	14	—

WAR-RWH-ASHC-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	116	—	—	—
	92-30-	126	—	—	—
	92-35-	126	—	—	—
	92-40-	131	—	—	—
		Polar Plot / Cone Of Light Multiplier			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		1.00	—	—	—



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

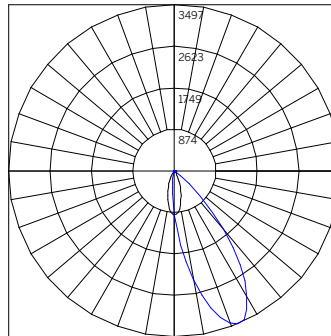
CONE OF LIGHT - 3W 3000K Narrow Flood WAR-RWH-ASHC-27-3-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	165	—
4	41	—
6	18	—
8	10	—
10	7	—
12	5	—
14	3	—
16	3	—
18	2	—
20	2	—

WAR-RWH-ASHC-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	127	139	470	848
	92-30-	139	149	507	908
	92-35-	139	149	507	908
	92-40-	144	160	543	977
		Polar Plot / Cone Of Light Multiplier			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		0.15	0.16	0.56	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Flood WAR-RWH-ASHC-51-15-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	656	—
4	164	—
6	73	—
8	41	—
10	26	—
12	18	—
14	13	—
16	10	—
18	8	—
20	7	—

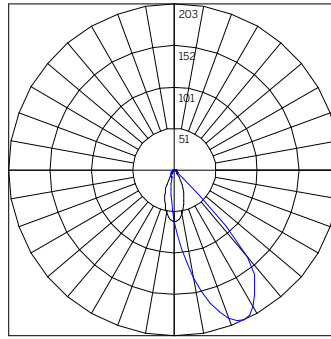
*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.

Warp Asymmetric

SQUARE ASYMMETRIC HONEYCOMB

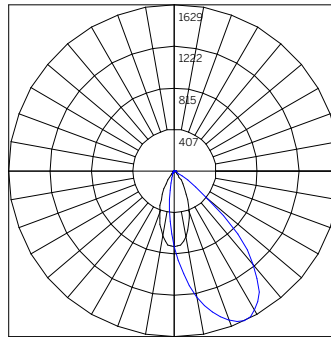
WAR-RWH-ASHC-...-MWFL...					
Delivered Lumens - Medium Wide Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	93	-	-	-
	92-30-	102	-	-	-
	92-35-	102	-	-	-
	92-40-	106	-	-	-
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		1.00	-	-	-



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 3W 3000K		
Medium Wide Flood		
WAR-RWH-ASHC-27-3-CC-92-30-MWFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	55	—
4	14	—
6	6	—
8	3	—
10	2	—
12	2	—
14	1	—
16	1	—
18	1	—
20	1	—

WAR-RWH-ASHC-...-WFL...					
Delivered Lumens - Wide Flood					
		Diameter [Wattage]			
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
CCT	92-27-	—	150	359	662
	92-30-	—	160	387	709
	92-35-	—	160	387	709
	92-40-	—	173	415	763
Polar Plot / Cone Of Light Multiplier					
		27 [3 CC]	43 [4 CC]	45 [10 CC]	51 [15 CC]
		—	0.23	0.55	1.00



Beam Angle (0-180) = Asymmetric
Beam Angle (90-270) = Asymmetric

CONE OF LIGHT - 15W 3000K Wide Flood		
WAR-RWH-ASHC-51-15-CC-92-30-WFL*		
Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	309	—
4	77	—
6	34	—
8	19	—
10	12	—
12	9	—
14	6	—
16	5	—
18	4	—
20	3	—

*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

** Beam Diameter indicates on center spacing required to maintain Illuminance at Mounting Height.