



Contents	
2	delivered lumens
3	product configurator
5	diagrams / drivers
9	photometry

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: 1.4"@2W (0.10 lbs) – 1.4"@4W (0.17 lbs) – 1.7" (0.28 lbs) – 2.8" (0.55 lbs) – 3.9" (1.13 lbs) – 5.3" (2.05 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: 2W (1.4") – 4W (1.4") – 6W (1.7") – 8W (2.8") – 15W (3.9") – 25W (5.3")

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: Fixed (refer to Warp Adjustable and Asymmetric 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, (1.7", 2W 80 CRI)

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.



Round Fixed Delivered Lumens*	1.4" (3W)	1.7" (2W)	1.7" (6W)	2.8" (10W)	3.9" (15W)	5.3" (25W)
USP	–	123	–	–	–	–
SP	146	–	519	703	–	–
NFL	163	–	425	747	1305	1986
FL	–	–	–	668	1224	1965
MWFL	162	–	–	–	–	1920
WFL	–	–	407	–	1066	–

*Values shown for 3000K

Square Fixed Delivered Lumens*	1.4" (3W)	1.7" (2W)	1.7" (6W)	2.8" (10W)	3.9" (15W)	5.3" (25W)
USP	–	135	–	–	–	–
SP	–	–	528	733	–	–
NFL	160	–	435	734	1305	2064
FL	154	–	–	–	1227	2050
MWFL	177	–	–	666	–	–
WFL	–	–	472	–	1086	1985

*Values shown for 3000K

Round Honeycomb Delivered Lumens*	1.4" (3W)	1.7" (6W)	2.8" (10W)	3.9" (15W)	5.3" (25W)
SP	118	355	523	–	1525
NFL	111	251	526	1082	–
FL	–	228	350	864	1379
MWFL	97	–	–	811	1142

*Values shown for 3000K

Square Honeycomb Delivered Lumens*	1.4" (3W)	1.7" (6W)	2.8" (10W)	3.9" (15W)	5.3" (25W)
SP	–	366	457	–	–
NFL	126	265	529	1082	1495
FL	118	–	395	864	1409
MWFL	109	245	–	811	1244
WFL	–	–	–	–	–

*Values shown for 3000K

Warp Fixed

ROUND

Ordering Information							(Required) ⁵
WAR			14	3 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	Driver
WAR = Warp	RWH = Round White RBL = Round Black	F = Fixed	14 = 1.4"	3 CC = 3W / Constant Current (630mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (19°) NFL = Narrow Flood (26°) MWFL = Medium Wide Flood (47°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	FHC = Fixed HoneyComb	14 = 1.4"	3 CC = 3W / Constant Current (630mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (19°) NFL = Narrow Flood (24°) FL = Flood (35°)	

Ordering Information							(Required) ⁵
WAR			17				
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	Driver
WAR = Warp	RWH = Round White RBL = Round Black	F = Fixed	17 = 1.7"	2 CC = 2W / Constant Current (630mA)	80-27 = 2700K 80-30 = 3000K 80-35 = 3500K 80-40 = 4000K	USP = Ultra Spot (5°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
			17 = 1.7"	6 CC = 6.3W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (19°) NFL = Narrow Flood (28°) WFL = Wide Flood (51°)	
	RWH = Round White RBL = Round Black	FHC = Fixed HoneyComb	17 = 1.7"	6 CC = 6.3W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (18°) NFL = Narrow Flood (25°) FL = Flood (39°)	

Ordering Information							(Required) ⁵
WAR			28	10 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	Driver
WAR = Warp	RWH = Round White RBL = Round Black	F = Fixed	28 = 2.8"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	USP = Ultra Spot (5°)(2W Only) SP = Spot (19°) NFL = Narrow Flood (28°) WFL = Wide Flood (51°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	FHC = Fixed HoneyComb	28 = 2.8"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (18°) NFL = Narrow Flood (25°) FL = Flood (39°)	

Ordering Information							(Required) ⁵
WAR			39	15 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	Driver
WAR = Warp	RWH = Round White RBL = Round Black	F = Fixed	39 = 3.9"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (23°) FL = Flood (38°) WFL = Wide Flood (52°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	FHC = Fixed HoneyComb	39 = 3.9"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (21°) FL = Flood (34°) MWFL = Medium Wide Flood (47°)	

Ordering Information							(Required) ⁵
WAR			53	25 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	Driver
WAR = Warp	RWH = Round White RBL = Round Black	F = Fixed	53 = 5.3"	25 CC = 25W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (21°) FL = Flood (34°) MWFL = Medium Wide Flood (39°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	RWH = Round White RBL = Round Black	FHC = Fixed HoneyComb	53 = 5.3"	25 CC = 25W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (20°) FL = Flood (33°) MWFL = Medium Wide Flood (38°)	

Warp Fixed

SQUARE

Ordering Information							(Required) ⁵
WAR			14	3 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver
WAR = Warp	SWH = Square White SBL = Square Black	F = Fixed	14 = 1.4"	3 CC = 3W / Constant Current (630mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (21°) NFL = Narrow Flood (28°) MWFL = Medium Wide Flood (50°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	FHC = Fixed HoneyComb	14 = 1.4"	3 CC = 3W / Constant Current (630mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (20.8°) NFL = Narrow Flood (25°) MWFL = Medium Wide Flood (41°)	

Ordering Information							(Required) ⁵
WAR			17				
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver
WAR = Warp	SWH = Square White SBL = Square Black	F = Fixed	17 = 1.7"	2 CC = 2W / Constant Current (630mA)	80-27 = 2700K 80-30 = 3000K 80-35 = 3500K 80-40 = 4000K	USP = Ultra Spot (5°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
			17 = 1.7"	6 CC = 6.3W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (19°) NFL = Narrow Flood (29°) WFL = Wide Flood (51°)	
	SWH = Square White SBL = Square Black	FHC = Fixed HoneyComb	17 = 1.7"	6 CC = 6.3W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (17°) NFL = Narrow Flood (24°) MWFL = Medium Wide Flood (40°)	

Ordering Information							(Required) ⁵
WAR			28	10 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver
WAR = Warp	SWH = Square White SBL = Square Black	F = Fixed	28 = 2.8"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (18°) NFL = Narrow Flood (29°) MWFL = Medium Wide Flood (46°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	FHC = Fixed HoneyComb	28 = 2.8"	10 CC = 10W / Constant Current (800mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	SP = Spot (17°) NFL = Narrow Flood (24°) FL = Flood (38°)	

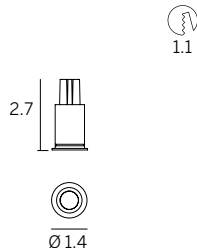
Ordering Information							(Required) ⁵
WAR			39	15 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver
WAR = Warp	SWH = Square White SBL = Square Black	F = Fixed	39 = 3.9"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (23°) FL = Flood (38°) WFL = Wide Flood (54°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	FHC = Fixed HoneyComb	39 = 3.9"	15 CC = 15W / Constant Current (400mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (21°) FL = Flood (34°) MWFL = Medium Wide Flood (47°)	

Ordering Information							(Required) ⁵
WAR			53	25 - CC			
Product	Trim/Finish	Type	Diameter	Wattage/Operation	Color Temp	Optic	+ Driver
WAR = Warp	SWH = Square White SBL = Square Black	F = Fixed	53 = 5.3"	25 CC = 25W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (22°) FL = Flood (38°) WFL = Wide Flood (50°)	ECO30W-XXX SOLO50W-XXX SOLO100W-XXX
	SWH = Square White SBL = Square Black	FHC = Fixed HoneyComb	53 = 5.3"	25 CC = 25W / Constant Current (700mA)	92-27 = 2700K 92-30 = 3000K 92-35 = 3500K 92-40 = 4000K	NFL = Narrow Flood (21°) FL = Flood (36°) MWFL = Medium Wide Flood (46°)	

Warp Fixed

ROUND

1.4" 2W 630mA

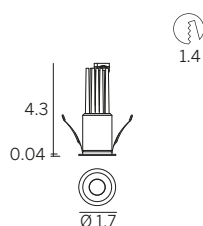


DRIVER OPTIONS (pick one)

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

1.7" 2W 630mA

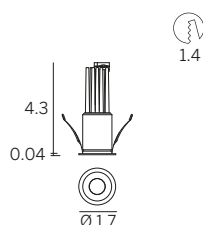


DRIVER OPTIONS (pick one)

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

1.7" 6.3W 700mA

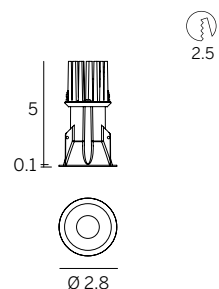


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-700	SOLO50W-700	SOLO100W-700
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)

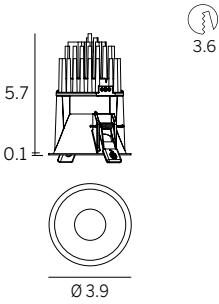
C.C. Power supply options (remote only)

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

Warp Fixed

ROUND

3.9" 15W 400mA

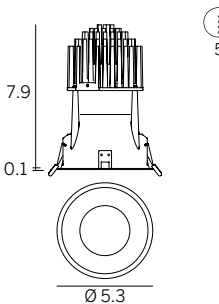


DRIVER OPTIONS (pick one)

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

5.3" 25W 700mA



DRIVER OPTIONS (pick one)

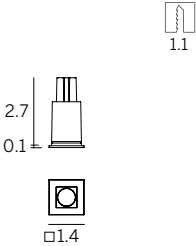
C.C. Power supply options (remote only)

SOLO50W-700	SOLO100W-700
0-10V EldoLED SOLOdrive 50W for 1 fixture	0-10V EldoLED SOLOdrive 100W for 1-3 fixtures

Warp Fixed

SQUARE

1.4" 2W 630mA

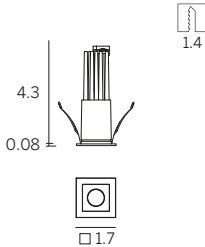


DRIVER OPTIONS (pick one)

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

1.7" 2W 630mA

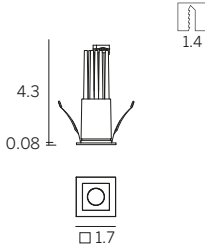


DRIVER OPTIONS (pick one)

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

1.7" 6.3W 700mA

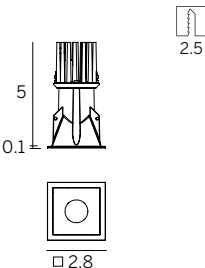


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

ECO30W-700	SOLO50W-700	SOLO100W-700
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)

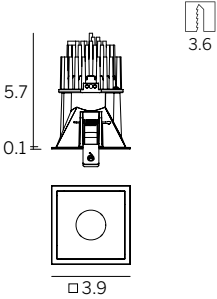
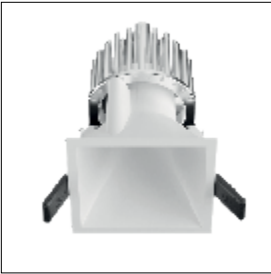
C.C. Power supply options (remote only)

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

Warp Fixed

SQUARE

3.9" 15W 400mA

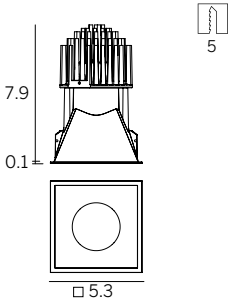


DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

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

5.3" 25W 700mA



DRIVER OPTIONS (pick one)

C.C. Power supply options (remote only)

SOLO50W-700	SOLO100W-700
0-10V EidoLED SOLOdrive 50W for 1 fixture	0-10V EidoLED SOLOdrive 100W for 1-3 fixtures

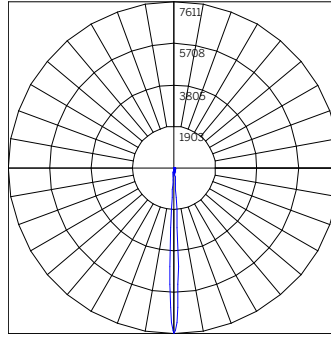
Warp Fixed

ROUND FIXED

WAR-RWH-F-...-USP...

Delivered Lumens - Ultra Spot

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	—	123	—	—	—	—
	92-30-	—	132	—	—	—	—
	92-35-	—	132	—	—	—	—
	92-40-	—	140	—	—	—	—
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	1.00	—	—	—	—
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	14.7	—	—	—	—



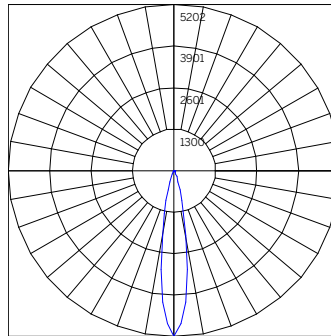
CONE OF LIGHT - 2W 3000K Ultra Spot WAR-RWH-F-17-2-CC-80-30-USP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1903	0.2
4	476	0.4
6	211	0.6
8	119	0.8
10	76	0.9
12	53	1.1
14	39	1.3
16	30	1.5
18	23	1.7
20	19	1.9

WAR-RWH-F-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	134	—	499	653	—	—
	92-30-	146	—	519	703	—	—
	92-35-	146	—	519	703	—	—
	92-40-	—	—	557	754	—	—
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.21	—	0.74	1.00	—	—
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		22.4	—	10.4	13.5	—	—



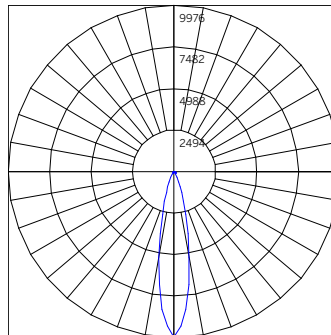
CONE OF LIGHT - 10W 3000K Spot WAR-RWH-F-28-10-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1301	0.6
4	325	1.2
6	145	1.8
8	81	2.4
10	52	3.1
12	36	3.7
14	27	4.3
16	20	4.9
18	16	5.5
20	13	6.1

WAR-RWH-F-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	150	—	408	694	1220	1846
	92-30-	163	—	425	747	1305	1986
	92-35-	163	—	425	747	1305	1986
	92-40-	—	—	460	800	1404	2125
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	—	0.21	0.38	0.66	1.00
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		23.4	—	23.4	16.3	14.3	17.1



CONE OF LIGHT - 25W 3000K Narrow Flood WAR-RWH-F-53-25-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	2494	0.7
4	624	1.5
6	277	2.2
8	156	2.9
10	100	3.7
12	69	4.4
14	51	5.1
16	39	5.9
18	31	6.6
20	25	7.3

*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.

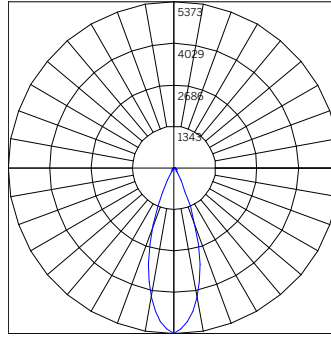
Warp Fixed

ROUND FIXED

WAR-RWH-F-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	-	-	-	619	1145	1828
	92-30-	-	-	-	668	1224	1965
	92-35-	-	-	-	668	1224	1965
	92-40-	-	-	-	717	1316	2103
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	-	-	0.34	0.62	1.00
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	-	-	20.5	15.9	17.4



Beam Angle (0-180) = 34.2°
Beam Angle (90-270) = 34.0°

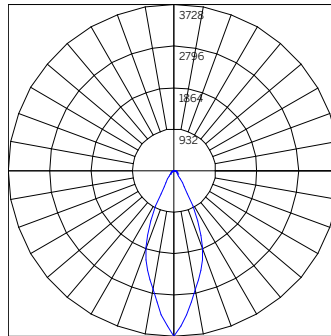
CONE OF LIGHT - 25W 3000K Flood WAR-RWH-F-53-25-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1343	1.2
4	336	2.5
6	149	3.7
8	84	4.9
10	54	6.2
12	37	7.4
14	27	8.6
16	21	9.8
18	17	11.1
20	13	12.3

WAR-RWH-F-...-MWFL...

Delivered Lumens - Medium Wide Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	148	-	-	-	-	1787
	92-30-	162	-	-	-	-	1920
	92-35-	162	-	-	-	-	1920
	92-40-	-	-	-	-	-	2055
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	-	-	-	-	1.00
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		24.7	-	-	-	-	21.0



Beam Angle (0-180) = 39.4°
Beam Angle (90-270) = 39.2°

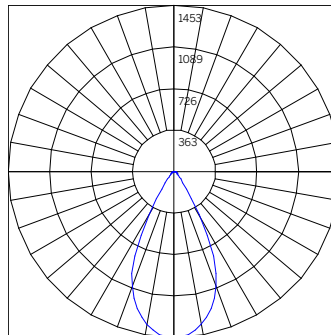
CONE OF LIGHT - 25W 3000K Medium Wide Flood WAR-RWH-F-53-25-CC-92-30-MWFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	932	1.4
4	233	2.9
6	104	4.3
8	58	5.7
10	37	7.2
12	26	8.6
14	19	10.0
16	15	11.5
18	12	12.9
20	9	14.3

WAR-RWH-F-...-WFL...

Delivered Lumens - Wide Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	-	-	390	-	996	-
	92-30-	-	-	407	-	1066	-
	92-35-	-	-	407	-	1066	-
	92-40-	-	-	439	-	1146	-
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	-	0.38	-	1.00	-
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	-	25.2	-	19.4	-



Beam Angle (0-180) = 52.4°
Beam Angle (90-270) = 52.0°

CONE OF LIGHT - 25W 3000K Narrow Spot WAR-RWH-F-39-15-CC-92-30-WFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	363	2.0
4	91	3.9
6	40	5.9
8	23	7.9
10	15	9.8
12	10	11.8
14	7	13.8
16	6	15.7
18	4	17.7
20	4	19.7

*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.

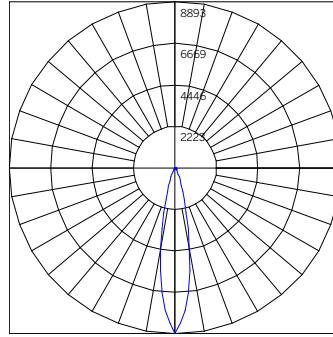
Warp Fixed

ROUND FIXED HONEYCOMB

WAR-RWH-FHC-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	108	342	486	-	1426
	92-30-	118	355	523	-	1525
	92-35-	118	355	523	-	1525
	92-40-	-	385	559	-	1632
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	0.23	0.34	-	1.00
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		15.4	8.0	12.5	-	14.9



Beam Angle (0-180) = 19.8°
Beam Angle (90-270) = 19.4°

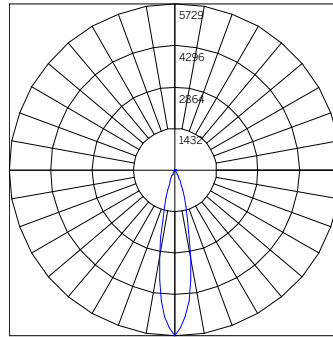
CONE OF LIGHT - 25W 3000K Spot WAR-RWH-FHC-53-25-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	2223	0.7
4	556	1.4
6	247	2.1
8	139	2.8
10	89	3.5
12	62	4.2
14	45	4.9
16	35	5.6
18	27	6.3
20	22	7.0

WAR-RWH-FHC-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	102	241	489	1012	-
	92-30-	111	251	526	1082	-
	92-35-	111	251	526	1082	-
	92-40-	-	271	564	1164	-
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.10	0.23	0.49	1.00	-
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		16.9	16.2	14.1	12.7	-



Beam Angle (0-180) = 21.2°
Beam Angle (90-270) = 21.4°

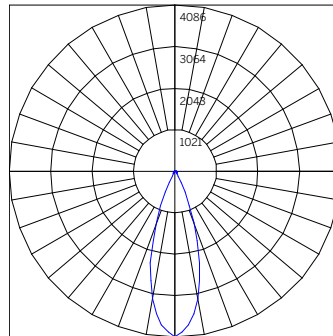
CONE OF LIGHT - 15W 3000K Narrow Flood WAR-RWH-FHC-39-15-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1432	0.7
4	358	1.5
6	159	2.2
8	90	3.0
10	57	3.7
12	40	4.5
14	29	5.2
16	22	6.0
18	18	6.7
20	14	7.5

WAR-RWH-FHC-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	-	219	324	808	1290
	92-30-	-	228	350	864	1379
	92-35-	-	228	350	864	1379
	92-40-	-	247	374	929	1478
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	19.2	16.7	14.5	15.6
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	19.2	16.7	14.5	15.6



Beam Angle (0-180) = 32.6°
Beam Angle (90-270) = 32.2°

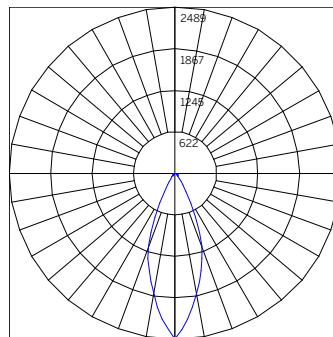
CONE OF LIGHT - 25W 3000K Flood WAR-RWH-FHC-53-25-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1022	1.2
4	255	2.3
6	114	3.5
8	64	4.7
10	41	5.8
12	28	7.0
14	21	8.2
16	16	9.4
18	13	10.5
20	10	11.7

WAR-RWH-FHC-...-MWFL...

Delivered Lumens - Medium Wide Flood

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	89	-	-	758	1070
	92-30-	97	-	-	811	1142
	92-35-	97	-	-	811	1142
	92-40-	-	-	-	873	1223
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	-	-	0.71	1.00
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		18.7	-	-	17.3	18.0



Beam Angle (0-180) = 37.8°
Beam Angle (90-270) = 37.6°

CONE OF LIGHT - 25W 3000K Medium Wide Flood WAR-RWH-FHC-53-25-CC-92-30-MWFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	623	1.4
4	156	2.7
6	69	4.1
8	39	5.5
10	25	6.8
12	17	8.2
14	13	9.6
16	10	11.0
18	8	12.3
20	6	13.7

*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.

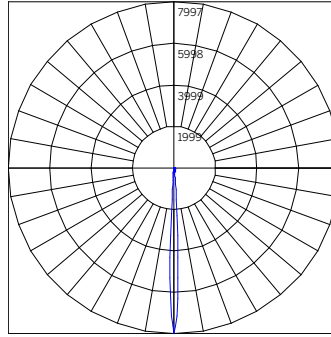
Warp Fixed

SQUARE FIXED

WAR-SWH-F-...-USP...

Delivered Lumens - Ultra Spot

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	—	126	—	—	—	—
	92-30-	—	135	—	—	—	—
	92-35-	—	135	—	—	—	—
	92-40-	—	143	—	—	—	—
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	1.00	—	—	—	—
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	12.3	—	—	—	—



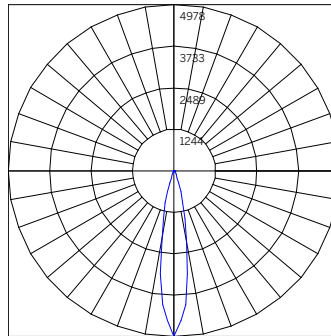
CONE OF LIGHT - 2W 3000K Ultra Spot WAR-SWH-F-17-2-CC-80-30-USP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	2000	0.2
4	500	0.4
6	222	0.5
8	125	0.7
10	80	0.9
12	56	1.1
14	41	1.3
16	31	1.5
18	25	1.6
20	20	1.8

WAR-SWH-F-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	—	—	504	680	—	—
	92-30-	—	—	528	733	—	—
	92-35-	—	—	528	733	—	—
	92-40-	—	—	567	785	—	—
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	—	0.72	1.00	—	—
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	—	16.2	11.5	—	—



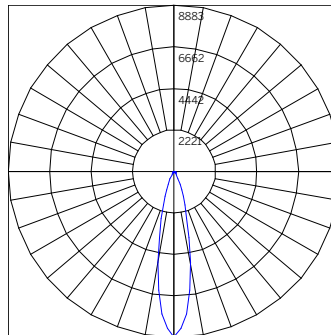
CONE OF LIGHT - 10W 3000K Spot WAR-SWH-F-28-10-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1245	0.6
4	311	1.3
6	138	1.9
8	78	2.6
10	50	3.2
12	35	3.8
14	25	4.5
16	19	5.1
18	15	5.8
20	12	6.4

WAR-SWH-F-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	146	—	416	682	1220	1920
	92-30-	160	—	435	734	1305	2064
	92-35-	160	—	435	734	1305	2064
	92-40-	166	—	468	786	1404	2209
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	—	0.21	0.36	0.63	1.00
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		24.8	—	22.0	14.8	12.6	16.1



CONE OF LIGHT - 25W 3000K Narrow Flood WAR-SWH-F-53-25-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	2221	0.8
4	555	1.6
6	247	2.3
8	139	3.1
10	89	3.9
12	62	4.7
14	45	5.4
16	35	6.2
18	27	7.0
20	22	7.8

*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.

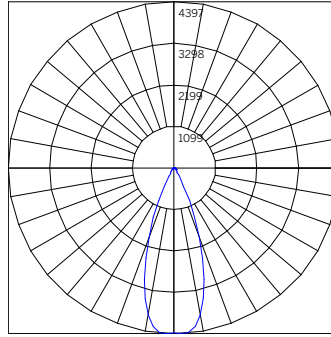
Warp Fixed

SQUARE FIXED

WAR-SWH-F-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	142	-	-	-	1147	1906
	92-30-	154	-	-	-	1227	2050
	92-35-	154	-	-	-	1227	2050
	92-40-	161	-	-	-	1320	2192
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	-	-	-	0.60	1.00
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		25.1	-	-	-	14.0	16.7



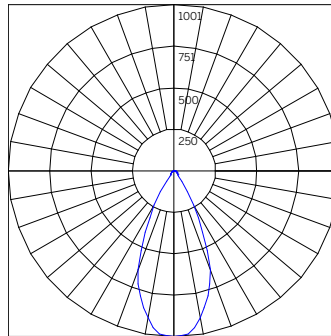
CONE OF LIGHT - 25W 3000K Flood WAR-SWH-F-53-25-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1093	1.4
4	273	2.7
6	121	4.1
8	68	5.4
10	44	6.8
12	30	8.2
14	22	9.5
16	17	10.9
18	13	12.3
20	11	13.6

WAR-SWH-F-...-MWFL...

Delivered Lumens - Medium Wide Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	162	-	-	618	-	-
	92-30-	177	-	-	666	-	-
	92-35-	177	-	-	666	-	-
	92-40-	184	-	-	713	-	-
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.27	-	-	1.00	-	-
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		26.3	-	-	19.1	-	-



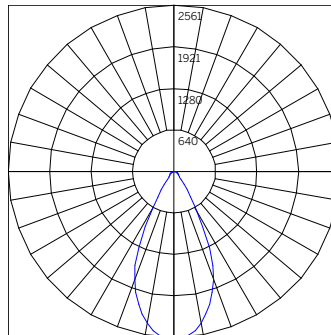
CONE OF LIGHT - 10W 3000K Medium Wide Flood WAR-SWH-F-28-10-CC-92-30-MWFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	250	1.7
4	63	3.4
6	28	5.1
8	16	6.8
10	10	8.4
12	7	10.1
14	5	11.8
16	4	13.5
18	3	15.2
20	3	16.9

WAR-SWH-F-...-WFL...

Delivered Lumens - Wide Flood

		Diameter [Wattage]					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	-	-	452	-	1016	1845
	92-30-	-	-	472	-	1086	1985
	92-35-	-	-	472	-	1086	1985
	92-40-	-	-	510	-	1168	2125
		Polar Plot / Cone Of Light Multiplier					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	-	0.24	-	0.55	1.00
		UGR (3K)					
		14 [3 CC]	17 [2 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		-	-	24.8	-	17.9	20.1



CONE OF LIGHT - 10W 3000K Narrow Spot WAR-SWH-F-53-25-CC-92-30-WFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	639	1.9
4	160	3.7
6	71	5.6
8	40	7.5
10	26	9.4
12	18	11.2
14	13	13.1
16	10	15.0
18	8	16.9
20	6	18.7

*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.

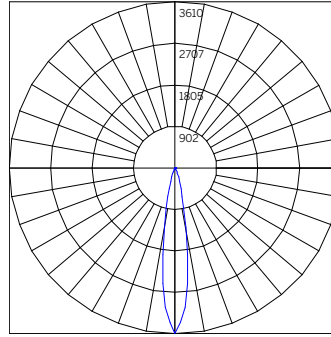
Warp Fixed

SQUARE FIXED HONEYCOMB

WAR-SWH-FHC-...-SP...

Delivered Lumens - Spot

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	—	350	423	—	—
	92-30-	—	366	457	—	—
	92-35-	—	366	457	—	—
	92-40-	—	394	490	—	—
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	0.80	1.00	—	—
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		—	9.4	8.8	—	—



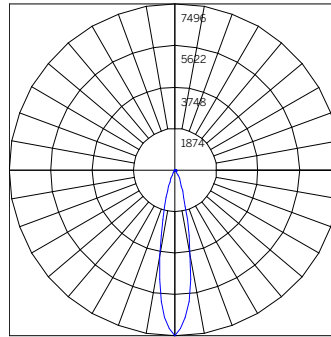
CONE OF LIGHT - 10W 3000K Spot WAR-SWH-FHC-28-10-CC-92-30-SP*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	903	0.6
4	226	1.2
6	100	1.8
8	56	2.3
10	36	2.9
12	25	3.5
14	18	4.1
16	14	4.7
18	11	5.3
20	9	5.8

WAR-SWH-FHC-...-NFL...

Delivered Lumens - Narrow Flood

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	116	253	491	1012	1392
	92-30-	126	265	529	1082	1495
	92-35-	126	265	529	1082	1495
	92-40-	132	285	568	1164	1600
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	0.18	0.35	0.72	1.00
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		20.4	15.5	9.5	11.6	12.4



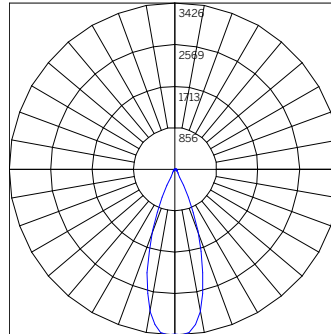
CONE OF LIGHT - 15W 3000K Narrow Flood WAR-SWH-FHC-53-25-CC-92-30-NFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	1874	0.7
4	469	1.5
6	208	2.2
8	117	2.9
10	75	3.7
12	52	4.4
14	38	5.1
16	29	5.9
18	23	6.6
20	19	7.3

WAR-SWH-FHC-...-FL...

Delivered Lumens - Flood

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	108	—	366	808	1309
	92-30-	118	—	395	864	1409
	92-35-	118	—	395	864	1409
	92-40-	122	—	424	929	1509
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		20.0	—	0.28	0.61	1.00
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.08	—	13.6	13.4	13.5



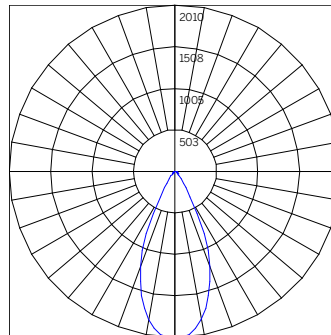
CONE OF LIGHT - 25W 3000K Flood WAR-SWH-FHC-53-25-CC-92-30-FL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	851	1.3
4	213	2.6
6	95	3.9
8	53	5.1
10	34	6.4
12	24	7.7
14	17	9.0
16	13	10.3
18	11	11.6
20	9	12.8

WAR-SWH-FHC-...-MWFL...

Delivered Lumens - Medium Wide Flood

		Diameter [Wattage]				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
CCT	92-27-	100	235	—	758	1158
	92-30-	109	245	—	811	1244
	92-35-	109	245	—	811	1244
	92-40-	114	265	—	873	1332
		Polar Plot / Cone Of Light Multiplier				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		0.09	0.20	—	0.65	1.00
		UGR (3K)				
		14 [3 CC]	17 [6 CC]	28 [10 CC]	39 [15 CC]	53 [25 CC]
		21.3	18.6	—	16.3	16.2



CONE OF LIGHT - 25W 3000K Medium Wide Flood WAR-SWH-FHC-53-25-CC-92-30-MWFL*

Mounting Height [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]**
2	503	1.7
4	126	3.4
6	56	5.1
8	31	6.8
10	20	8.4
12	14	10.1
14	10	11.8
16	8	13.5
18	6	15.2
20	5	16.9

*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.