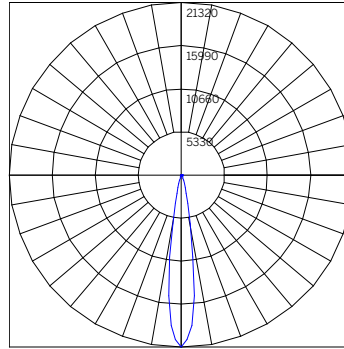
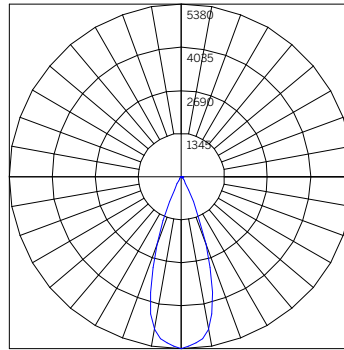


PER-SWH-F-...-ID-SP...		
Delivered Lumens - Spot		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1761
	27-	1995
	30-	2078
	40-	2156



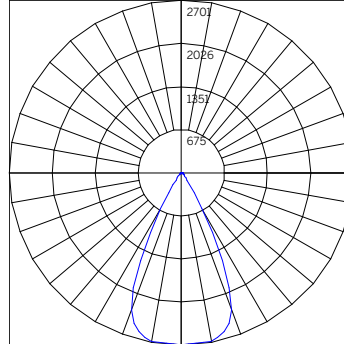
CONE OF LIGHT - 21W 3000K Spot PER-SWH-F-44-21-ID-30-SP'		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	53	5.5
18	66	4.9
16	83	4.4
14	109	3.8
12	148	3.3
10	213	2.7
8	333	2.2
6	592	1.6
4	1333	1.1
2	5330	0.5

PER-SWH-F-...-ID-FL...		
Delivered Lumens - Flood		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1746
	27-	1979
	30-	2062
	40-	2138



CONE OF LIGHT - 21W 3000K Flood PER-SWH-F-44-21-ID-30-FL'		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	13	13.3
18	17	12.0
16	21	10.6
14	27	9.3
12	37	8.0
10	54	6.7
8	84	5.3
6	149	4.0
4	336	2.7
2	1345	1.3

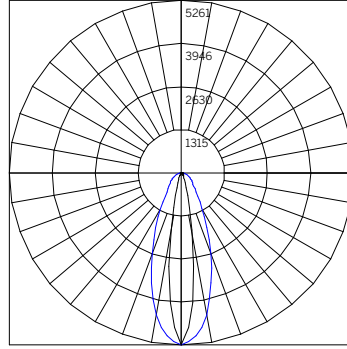
PER-SWH-F-...-ID-WFL...		
Delivered Lumens - Wide Flood		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1607
	27-	1822
	30-	1898
	40-	1968



CONE OF LIGHT - 21W 3000K Wide Flood PER-SWH-F-44-21-ID-30-WFL'		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	7	19.4
18	8	17.5
16	11	15.5
14	14	13.6
12	19	11.7
10	27	9.7
8	42	7.8
6	75	5.8
4	169	3.9
2	676	1.9

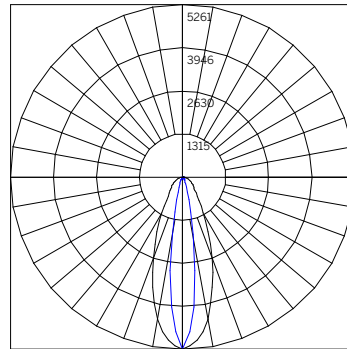
*Polar Plot and Cone of Light are applicable to part number noted; use Multiplication Factor table to approximate other models or refer to online photometry.

PER-SWH-F-...-ID-VESP...		
Delivered Lumens - Vertical Elliptical Spot		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1269
	27-	1437
	30-	1497
	40-	1553



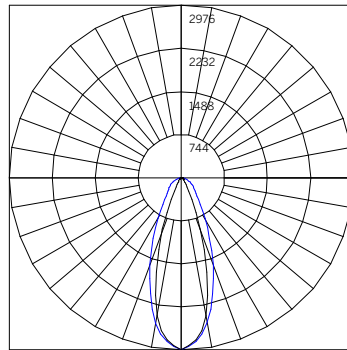
Beam Angle (0-180) = 40.0°
Beam Angle (90-270) = 16.0°

PER-SWH-F-...-ID-HESP...		
Delivered Lumens - Horizontal Elliptical Spot		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1268
	27-	1437
	30-	1497
	40-	1553



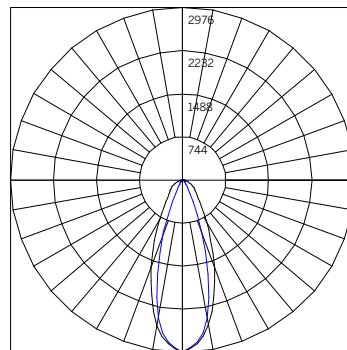
Beam Angle (0-180) = 16.0°
Beam Angle (90-270) = 40.0°

PER-SWH-F-...-ID-VEFL...		
Delivered Lumens - Vertical Elliptical Flood		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1329
	27-	1507
	30-	1569
	40-	1627



Beam Angle (0-180) = 42.4°
Beam Angle (90-270) = 32.6°

PER-SWH-F-...-ID-HEFL...		
Delivered Lumens - Horizontal Elliptical Flood		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1329
	27-	1507
	30-	1569
	40-	1627



Beam Angle (0-180) = 32.6°
Beam Angle (90-270) = 42.4°

CONE OF LIGHT - 21W 3000K Vertical Elliptical Spot PER-SWH-F-44-21-ID-30-VESP*

Throw Distance [Ft]	Illuminance [fc at max cd]	0-180 Beam Diameter [Ft]	90-270 Beam Diameter [Ft]
20	13	15.5	11.7
18	16	14.0	10.5
16	21	12.4	9.4
14	27	10.9	8.2
12	37	9.3	7.0
10	53	7.8	5.8
8	82	6.2	4.7
6	146	4.7	3.5
4	329	3.1	2.3
2	1315	1.6	1.2

CONE OF LIGHT - 21W 3000K Horizontal Elliptical Spot PER-SWH-F-44-21-ID-30-HESP*

Throw Distance [Ft]	Illuminance [fc at max cd]	0-180 Beam Diameter [Ft]	90-270 Beam Diameter [Ft]
20	13	11.7	15.5
18	16	10.5	14.0
16	21	9.4	12.4
14	27	8.2	10.9
12	37	7.0	9.3
10	53	5.8	7.8
8	82	4.7	6.2
6	146	3.5	4.7
4	329	2.3	3.1
2	1315	1.2	1.6

CONE OF LIGHT - 21W 3000K Vertical Elliptical Flood PER-SWH-F-44-21-ID-30-HEFL*

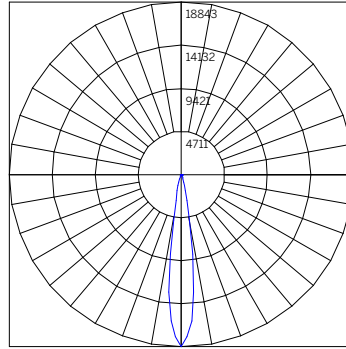
Throw Distance [Ft]	Illuminance [fc at max cd]	0-180 Beam Diameter [Ft]	90-270 Beam Diameter [Ft]
20	7	15.5	11.7
18	9	14.0	10.5
16	12	12.4	9.4
14	15	10.9	8.2
12	21	9.3	7.0
10	30	7.8	5.8
8	47	6.2	4.7
6	83	4.7	3.5
4	186	3.1	2.3
2	744	1.6	1.2

CONE OF LIGHT - 21W 3000K Horizontal Elliptical Flood PER-SWH-F-44-21-ID-30-HEFL*

Throw Distance [Ft]	Illuminance [fc at max cd]	0-180 Beam Diameter [Ft]	90-270 Beam Diameter [Ft]
20	7	11.7	15.5
18	9	10.5	14.0
16	12	9.4	12.4
14	15	8.2	10.9
12	21	7.0	9.3
10	30	5.8	7.8
8	47	4.7	6.2
6	83	3.5	4.7
4	186	2.3	3.1
2	744	1.2	1.6

*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.

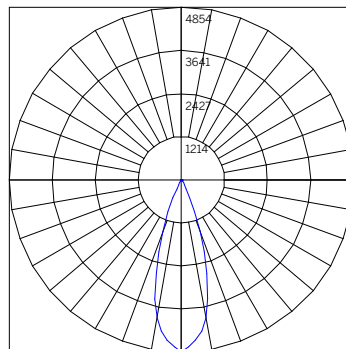
PER-SWH-FHC-....ID-SP...		
Delivered Lumens - Spot		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1433
	27-	1624
	30-	1692
	40-	1754



Beam Angle (0-180) = 15.2°
Beam Angle (90-270) = 15.4°

CONE OF LIGHT - 21W 3000K Spot PER-SWH-FHC-44-21-ID-30-SP*		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	47	5.3
18	58	4.8
16	74	4.3
14	96	3.7
12	131	3.2
10	188	2.7
8	294	2.1
6	523	1.6
4	1178	1.1
2	4711	0.5

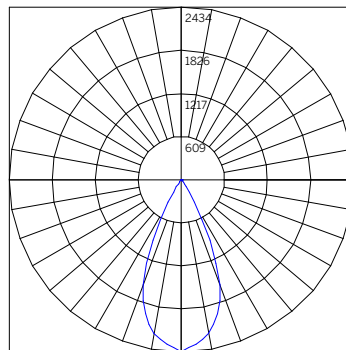
PER-SWH-FHC-....ID-FL...		
Delivered Lumens - Flood		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1283
	27-	1454
	30-	1514
	40-	1570



Beam Angle (0-180) = 32.4°
Beam Angle (90-270) = 32.8°

CONE OF LIGHT - 21W 3000K Flood PER-SWH-FHC-44-21-ID-30-FL*		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	12	11.6
18	15	10.5
16	19	9.3
14	25	8.1
12	34	7.0
10	49	5.8
8	76	4.6
6	135	3.5
4	303	2.3
2	1214	1.2

PER-SWH-FHC-....ID-MWFL...		
Delivered Lumens - Medium Wide Flood		
		Size [Wattage]
		44 [21 ID]
CCT	22-	1081
	27-	1226
	30-	1276
	40-	1324

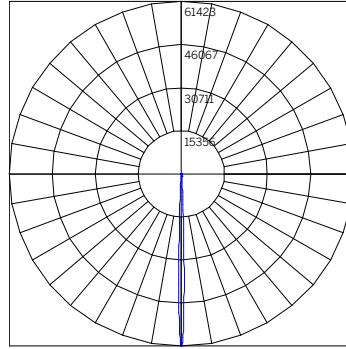


Beam Angle (0-180) = 46.0°
Beam Angle (90-270) = 45.4°

CONE OF LIGHT - 21W 3000K Medium Wide Flood PER-SWH-FHC-44-21-ID-30-MWFL*		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	6	17.0
18	8	15.3
16	10	13.6
14	12	11.9
12	17	10.2
10	24	8.5
8	38	6.8
6	68	5.1
4	152	3.4
2	609	1.7

*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.

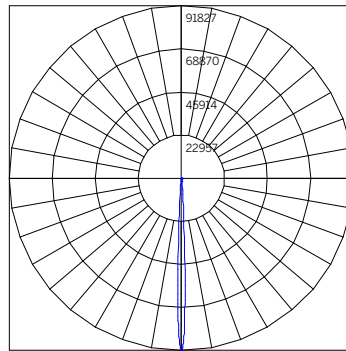
PER-SWH-N-...-ID-HSP...		
Delivered Lumens - Hyper Spot		
		Size [Wattage]
		44 [10 ID]
CCT	22-	386
	27-	515
	30-	552
	40-	586



Beam Angle (0-180) = 3.4°
Beam Angle (90-270) = 3.8°

CONE OF LIGHT - 10W 3000K Hyper Spot PER-SWH-N-44-10-ID-30-HSP*		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	153	1.2
18	189	1.1
16	240	0.9
14	313	0.8
12	426	0.7
10	613	0.6
8	958	0.5
6	1704	0.4
4	3834	0.2
2	15336	0.1

PER-SWH-N-...-ID-USP...		
Delivered Lumens - Ultra Spot		
		Size [Wattage]
		44 [21 ID]
CCT	22-	892
	27-	1188
	30-	1273
	40-	1352



Beam Angle (0-180) = 4.4°
Beam Angle (90-270) = 4.8°

CONE OF LIGHT - 21W 3000K Ultra Spot PER-SWH-N-44-21-ID-30-USP*		
Throw Distance [Ft]	Illuminance [fc at max cd]	Beam Diameter [Ft]
20	230	1.5
18	283	1.4
16	359	1.2
14	469	1.1
12	638	0.9
10	918	0.8
8	1435	0.6
6	2551	0.5
4	5739	0.3
2	22957	0.2

*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.