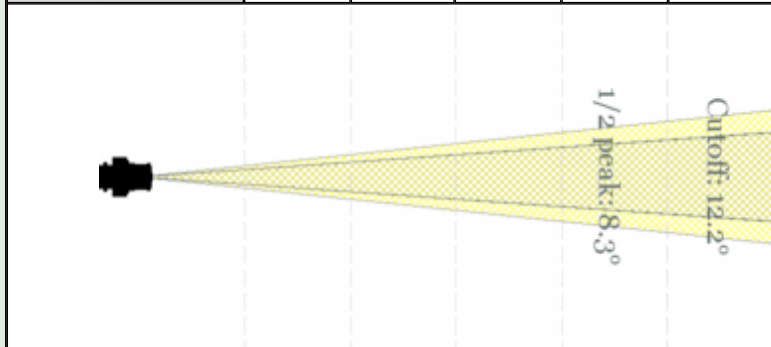


### Standard Lens , Zoom at Minimum (12.2°)

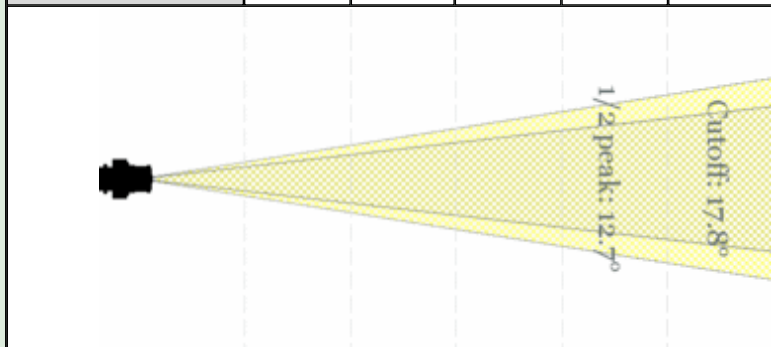
Distance (ft.)	33	66	98	131	164
Cutoff	7.1	14.1	21.0	28.0	35.1
1/2 peak	4.8	9.6	14.2	19.0	23.8
Illuminance (fc)	1140	285	129	72	46



Efficiency	19%
Half-peak diameter	0.15 X distance(ft)
Cutoff diameter	0.21 X distance(ft)
Illuminance	1241000 / distance <sup>2</sup> (fc)
Total Output	20700 (lumens)

### Standard Lens , Zoom at Median (17.8°)

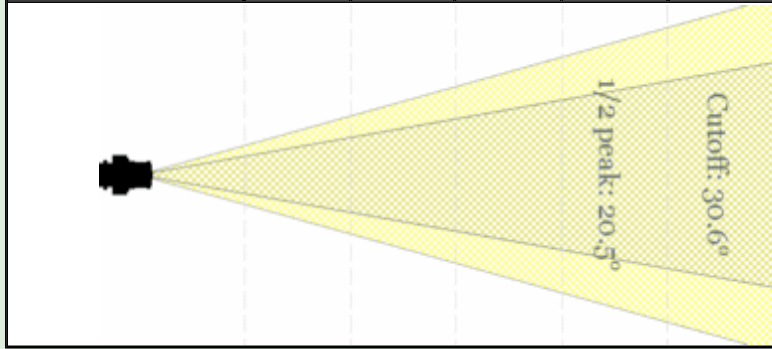
Distance (ft.)	16	33	49	66	82
Cutoff	5.0	10.3	15.4	20.7	25.7
1/2 peak	3.6	7.3	10.9	14.7	18.3
Illuminance (fc)	1922	452	205	113	73



Efficiency	18%
Half-peak diameter	0.22 X distance(ft)
Cutoff diameter	0.31 X distance(ft)
Illuminance	492000 / distance <sup>2</sup> (fc)
Total Output	19200 (lumens)

Standard Lens , Zoom at Maximum (30.6°)

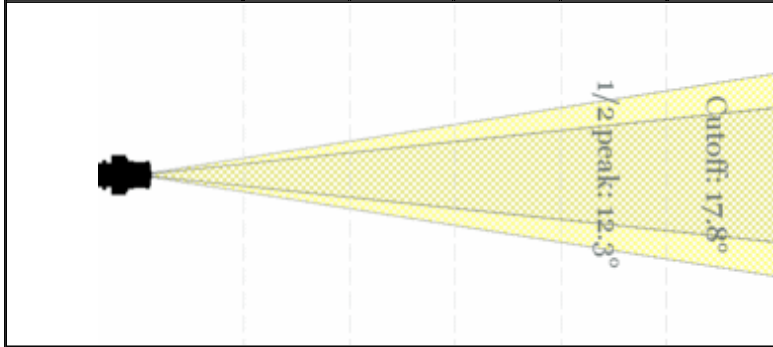
Distance (ft.)	10	20	30	39	49
Cutoff	5.5	10.9	16.4	21.3	26.8
1/2 peak	3.6	7.2	10.9	14.1	17.7
Illuminance (fc)	1780	445	198	117	74



Efficiency
18%
Half-peak diameter
0.36 X distance(ft)
Cutoff diameter
0.55 X distance(ft)
Illuminance
$178000 / \text{distance}^2$ (fc)
Total Output
19300 (lumens)

With Beam Expander lens applied  
Standard Lens , Zoom at Minimum (17.8°)

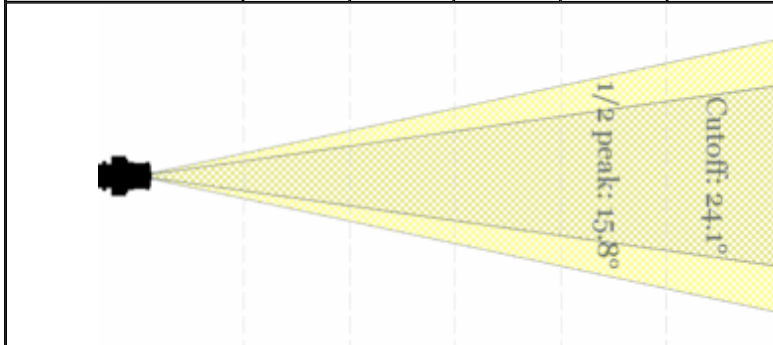
Distance (ft.)	16	33	49	66	82
Cutoff	5.0	10.3	15.4	20.7	25.7
1/2 peak	3.5	7.1	10.6	14.2	17.7
Illuminance (fc)	2422	569	258	142	92



Efficiency	21%
Half-peak diameter	0.22 X distance(ft)
Cutoff diameter	0.31 X distance(ft)
Illuminance	$620000 / \text{distance}^2$ (fc)
Total Output	23000 (lumens)

With Beam Expander lens applied  
Standard Lens , Zoom at Median (24.1°)

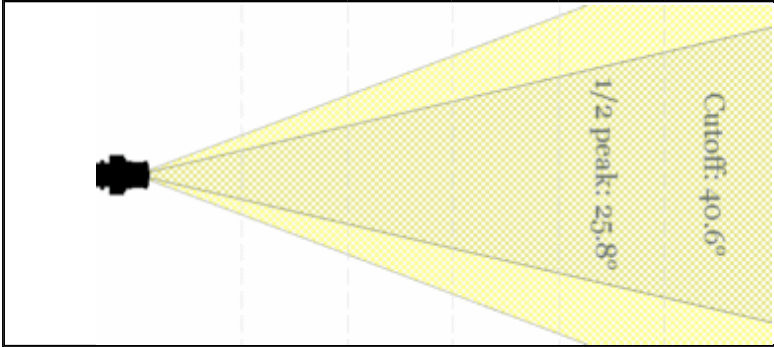
Distance (ft.)	13	26	39	52	66
Cutoff	5.6	11.1	16.7	22.2	28.2
1/2 peak	3.6	7.2	10.8	14.4	18.3
Illuminance (fc)	2077	519	231	130	81



Efficiency	21%
Half-peak diameter	0.28 X distance(ft)
Cutoff diameter	0.43 X distance(ft)
Illuminance	$351000 / \text{distance}^2$ (fc)
Total Output	22900 (lumens)

With Beam Expander lens applied  
 Standard Lens , Zoom at Maximum (40.6°)

Distance (ft.)	10	20	30	39	49
Cutoff	7.4	14.8	22.2	28.9	36.3
1/2 peak	4.6	9.2	13.7	17.9	22.4
Illuminance (fc)	1210	302	134	80	50



Efficiency
20%
Half-peak diameter
0.46 X distance(ft)
Cutoff diameter
0.74 X distance(ft)
Illuminance
$121000 / \text{distance}^2$ (fc)
Total Output
21600 (lumens)