



























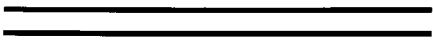





















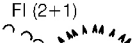


























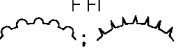






# P Lights

Light Structures, Major Floating Lights				
1			Major light, minor light light, lighthouse	  Lt Lt Ho   
2	■ PLATFORM (lighted)		Lighted offshore platform	
3	○ Marker (lighted)	 	Lighted beacon tower	  Bn Tr
4		 	Lighted beacon	   Bn
5	○ Art	 	Articulated light Buoyant beacon, resilient beacon	  Bn
6			Light vessel; Lightship Normally manned light-vessel	 
7			Unmanned light-vessel; light float	 FLOAT
8			LANBY, superbuoy as navigational aid	

# P Lights



<i>Light Characters</i>						
<i>Light Characters on Light Buoys → Q</i>						
	<i>Abbreviation</i>		<i>Class of light</i>	<i>Illustration</i>	<i>Period shown</i> 	
	<i>International</i>	<i>National</i>				
10.1	F	F	<i>Fixed</i>			F 
<i>Occulting (total duration of light longer than total duration of darkness)</i>						
10.2	Oc	Oc	<i>Single-occulting</i>	 		Oc 
	Oc(2) Example	Oc (2)	<i>Group-occulting</i>	 		Oc (2) 
	Oc(2+3) Example	Oc(2+3)	<i>Composite group-occulting</i>	 		Oc(2+3) 
<i>Isophase (duration of light and darkness equal)</i>						
10.3	Iso	Iso	<i>Isophase</i>	 		Iso 
<i>Flashing (total duration of light shorter than total duration of darkness)</i>						
10.4	FI	FI	<i>Single-flashing</i>	 		FI 
	FI(3) Example	FI (3)	<i>Group-flashing</i>	 		FI (3) 
	FI(2+1) Example	FI (2+1)	<i>Composite group-flashing</i>	 		FI (2+1) 
10.5	LFI	L FI	<i>Long-flashing (flash 2s or longer)</i>	 		L FI 
<i>Quick (repetition rate of 50 to 79 – usually either 50 or 60 – flashes per minute)</i>						
10.6	Q	Q	<i>Continuous quick</i>			Q 
	Q(3) Example	Q(3)	<i>Group quick</i>	 		
	IQ	IQ	<i>Interrupted quick</i>	 		IQ 

# P Lights

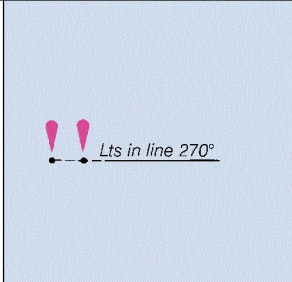
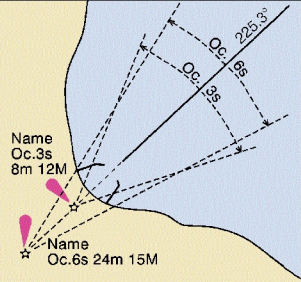
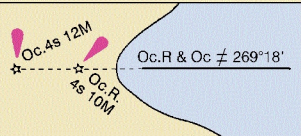


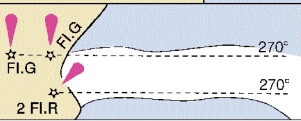
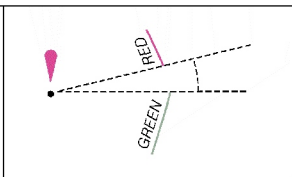
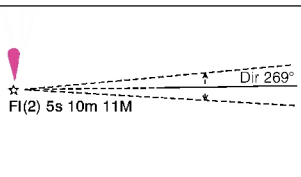
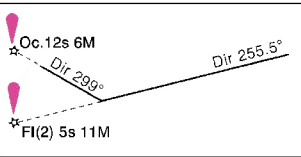
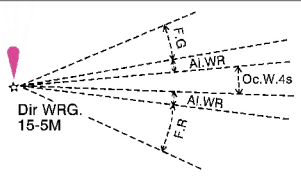
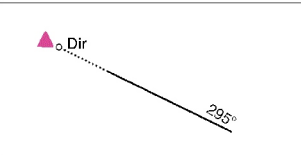
	Abbreviation		Class of light	Illustration	Period shown 		
	International	National					
10.7	<i>Very quick (repetition rate of 80 to 159 – usually either 100 or 120 – flashes per min)</i>						
	VQ	VQ	Continuous very quick			VQ 	
	VQ(3) Example	VQ (3)	Group very quick				
	IVQ	IVQ	Interrupted very quick				
10.8	<i>Ultra quick (repetition rate of 160 or more – usually 240 to 300 – flashes per min)</i>						
	UQ	UQ	Continuous ultra quick				
	IUQ	IUQ	Interrupted ultra quick				
10.9	Mo (A) Example	Mo (A)	Morse Code				
10.10	FFI	F FI	Fixed and flashing			F FI 	
10.11	AIWR	AIWR	Alternating			AIWR 	
<b>Colors of Lights</b>							
11.1	W	W	White (only on sector- and alternating lights)		<p>Colors of lights shown on standard charts</p>  <p>on multicolored charts</p>  <p>on multicolored charts at sector lights</p> 		
11.2	R	R	Red				
11.3	G	G	Green				
11.4	Bu	Bu	Blue				
11.5	Vi	Vi	Violet				
11.6	Y	Y	Yellow				
11.7	Y	Or	Y	Or			Orange
11.8	Y	Am	Y	Am			Amber

# P Lights

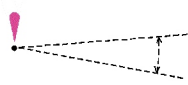
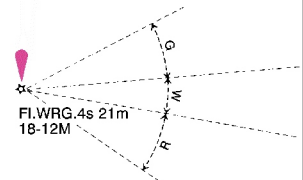
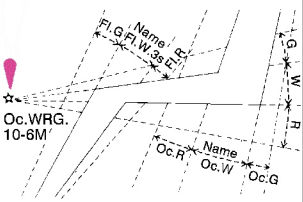
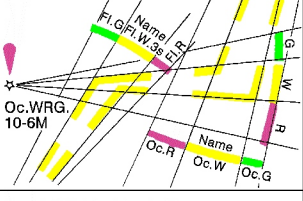
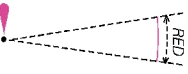
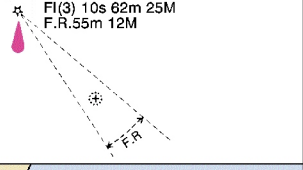
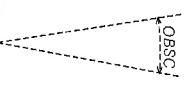
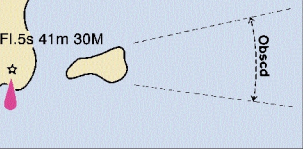
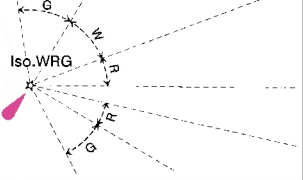

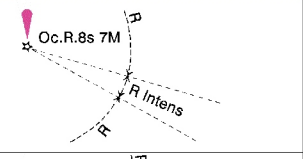
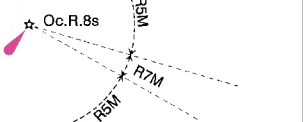
<b>Period</b>				
12	90s		<i>Period in seconds</i>	90s
<b>Elevation</b>				
<i>Plane of Reference for Heights</i> → H			<i>Tidal Levels</i> → H	
13	12m 36ft		<i>Elevation of light given in meters or feet</i>	12m
<b>Range</b>				
<i>Note: Charted ranges are nominal ranges given in Nautical miles</i>				
14	15M	15M	<i>Light with single range</i>	15M
	10M	15/10M	<i>Light with two different ranges</i> <i>NOS: only lesser of two ranges is charted</i>	15/10M
	7M	15-7M	<i>Light with three or more ranges</i> <i>NOS: only least of three ranges is charted</i>	15-7M
<b>Disposition</b>				
15		(hor)	<i>horizontally disposed</i>	(hor)
		(vert)	<i>vertically disposed</i>	(vert)

<b>Example of a full Light Description</b>				
16	 <ul style="list-style-type: none"> <li>Name</li> <li>FI (3) WRG 15s 21ft 11M</li> <li>FI (3) WRG 15s 21m 15-11M-NIMA</li> </ul>	 <ul style="list-style-type: none"> <li>Name</li> <li>FI(3)WRG.15s 21m 15-11M</li> </ul>		
	FI(3)	<i>Class of light: group flashing repeating a group of three flashes</i>	FI(3)	<i>Class of light: group flashing repeating a group of three flashes</i>
	WRG	<i>Colors: white, red, green, exhibiting the different colors in defined sectors</i>	WRG	<i>Colors: white, red, green, exhibiting the different colors in defined sectors</i>
	15S	<i>Period: the time taken to exhibit one full sequence of 3 flashes and eclipses: 15 seconds</i>	15s	<i>Period: the time taken to exhibit one full sequence of 3 flashes and eclipses: 15 seconds</i>
	21ft } 21m }	<i>Elevation of focal plane above datum: 21 feet or 21 meters</i>	21m	<i>Elevation of focal plane above datum: 21 meters</i>
11M } 15-11M }	<i>Nominal range NIMA: white 15M, green 11M, red between 15 and 11M.</i>	15-11M	<i>Nominal range: white 15M, green 11M, red between 15 and 11M</i>	










# P Lights

Lights Marking Fairways			
Leading Lights and Lights in Line			
20.1		Leading lights with leading line (firm line is fairway) and arcs of visibility Bearing given in degrees and tenths of a degree	
20.2		Leading lights $\neq$ : any two objects in line Bearing given in degrees and minutes	
20.3		Leading lights on small-scale charts	
21		Lights in line, marking the sides of a channel	
22		Rear or upper light	Rear Lt or Upper Lt
23		Front or lower light	Front Lt or Lower Lt
Direction Lights			
30.1		Direction light with narrow sector and course to be followed, flanked by darkness or unintensified light	
30.2		Direction light with course to be followed, uncharted sector is flanked by darkness or unintensified light	
30.3		Direction light with narrow fairway sector flanked by sectors of different character	
31		Moiré effect light (day and night) Arrows show when course alteration needed	
Note: Quoted bearings are always from seaward.			











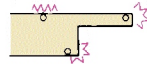




# P Lights

Sector Lights			
40		Sector light on standard charts	
41.1		Sector lights on standard charts, the white sector limits marking the sides of the fairway	
41.2		Sector lights on multicoloured charts, the white sector limits marking the sides of the fairway	
42		Main light visible all-round with red subsidiary light seen over danger	
43		All-round light with obscured sector	
44		Light with arc of visibility deliberately restricted	
45		Light with faint sector	
46		Light with intensified sector	
			




# P Lights

Lights with limited Times of Exhibition				
50	Occas	 FR (occas)	Lights exhibited only when specially needed (for fishing vessels, ferries) and some private lights	 F.R. (occas)
51		 F Bu 9m 6M  (F by day)	Daytime light (charted only where the character shown by day differs from that shown at night)	 Fl.10s 40m 27M  (F.37m 11M Day)
52			Fog light (exhibited only in fog, or character changes in fog)	 Name  Q.WRG.5m 10-3M Fl.5S (in fog)
53			Unwatched (unmanned) light with no standby or emergency arrangements	 Fl.5s (U)
54			Temporary	(temp)
55			Extinguished	(exting)

## Special Lights

Flare Stack (at Sea) → L		Flare Stack (on Land) → E		Signal Stations → T	
60	 AERO	 AERO AI WG 7½s 108m 13M	Aero light	 Aero AI.Fl.WG.7.5s 11M	 AERO
61.1		 AERO FR 77m 11M	Air obstruction light of high intensity	 Aero F.R.313m 11M RADIO MAST (353)	
61.2		 TR (R Lts)	Air obstruction lights of low intensity	(89)  (R Lts)	
62		Fog Det Lt	Fog detector light	Fog Det Lt	
63			Floodlight, floodlighting of a structure	 (Illuminated)	
64			Strip light		
65	 Priv	 F R (priv)	Private light other than one exhibited occasionally	 F.R.(priv)	 Priv maintd

## Supplementary National Symbols

a			Riprap surrounding light		
b			Short-Long Flashing		S-L FI 
c			Group-Short Flashing		
d			Fixed and Group Flashing		F Gp FI