

# ELAR 180 PAR RGBWA PHOTOMETRIC REPORT LM-79

## Photometrics Pro

### Luminaire Photometric Report

**Filename:** Elar 180 Par RGBWA  
**Manufacturer:** ELATION LIGHTING  
**Luminaire:** 9-1/16"DIA. X 8-13/16"H. HIGH POWER RGBW LED PAR 12 RED LEDS, 12 GREEN LENS, 12 BLUE LEDS, 12 AMBER LEDS AND 12 COOL WHITE LEDS WITH OPTIC LENS ALL LEDS ARE ON, FLAT TEMPERED GLASS LENS  
**Luminaire Cat:** ELAR 180 PAR RGBAW  
**Lamp Cat:** RED, GREEN, BLUE, AMBER AND COOL WHITE LED  
**Ballast Desc:** 100-240VAC 50/60Hz  
**Lamp Output:** 1 lamp(s), rated Lumens/lamp: 1610.738  
**Max Candela:** 37,743.0 at Horizontal: 0°, Vertical: 0°  
**Input Wattage:** 147.6  
**Luminous Opening:** Circular (Dia: -0.6ft)  
**Test:** L0410-1906  
**Test Lab:** LIGHT LABORATORY INC  
**Photometry :** Type C

#### Flood Summary

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	57.5%	926.1	19.4	19.4
Beam (50%):	12.3%	198.4	7.1	7.1
Total:	100.7%	1,621.4		

CIE Class: Direct

#### Zonal Lumen Summary

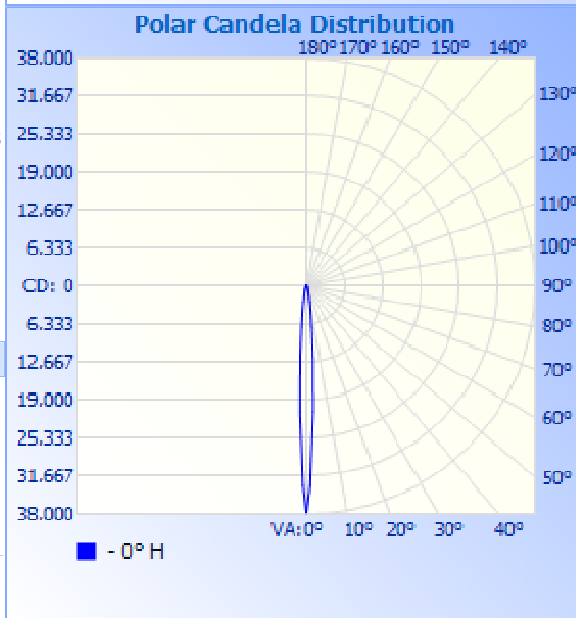
Zone	Lumens	% Lamp	% Luminaire
0-30	1,425.6	88.5%	88.5%
0-40	1,480.0	91.9%	91.9%
0-60	1,553.6	96.5%	96.5%
60-90	57.1	3.5%	3.5%
0-90	1,610.7	100%	100%
90-180	0	0%	0%
0-180	1,610.7	100%	100%

Efficiency Total: 100%

#### Illuminance at a Distance

	Center Beam FC	Beam Width
5.0ft	1,509.72 fc	0.6ft
10.0ft	377.43 fc	1.2ft
15.0ft	167.75 fc	1.9ft
20.0ft	94.36 fc	2.5ft
25.0ft	60.39 fc	3.1ft
30.0ft	41.94 fc	3.7ft

■ Beam Spread: 7.1°



#### Lumens Per Zone

Zone	Lumens	% Total	Zone	Lumens	% Total
0-10	920.8	57.2%	90-100	0	0%
10-20	375.5	23.3%	100-110	0	0%
20-30	129.4	8.0%	110-120	0	0%
30-40	54.3	3.4%	120-130	0	0%
40-50	38.6	2.4%	130-140	0	0%
50-60	35.0	2.2%	140-150	0	0%
60-70	25.8	1.6%	150-160	0	0%
70-80	19.0	1.2%	160-170	0	0%
80-90	12.3	0.8%	170-180	0	0%

Note – these measurements are done with standard 10deg. Lens fitted in unit. Optional wider angle lens kits are available as well as the use of our LSF filters are optional.