

# Par Z120 RGBW



Light Efficiency:

35 Lumen/Watt

Light Quality:

CRI: 70.3

Color Temperature:

6318 K

Output: 1259 lm

Peak: 16367 cd

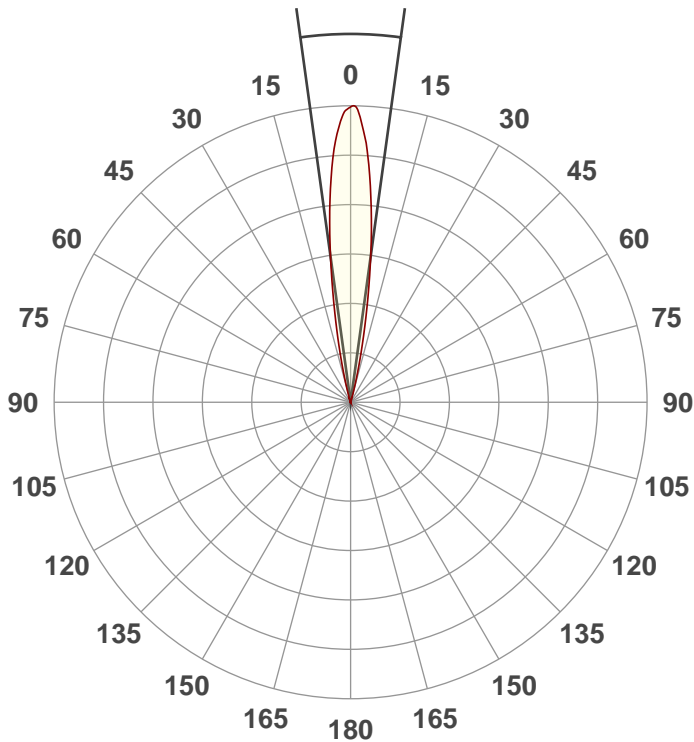
Power: 35.5 W

PF: 0.63



Beam Angle

15.7°



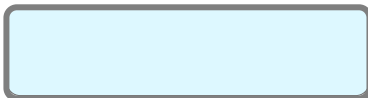
Test:

16deg White

Date:

8/16/2018

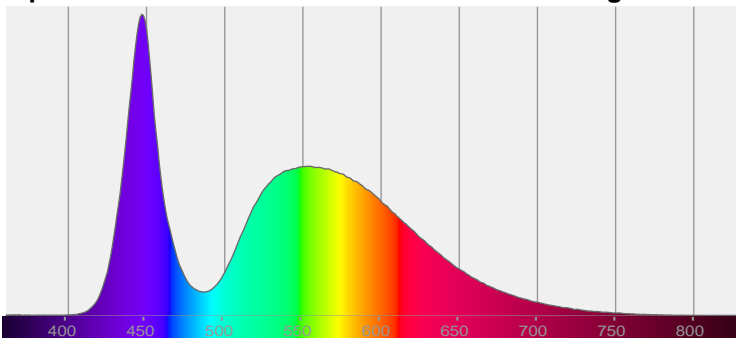
Note:



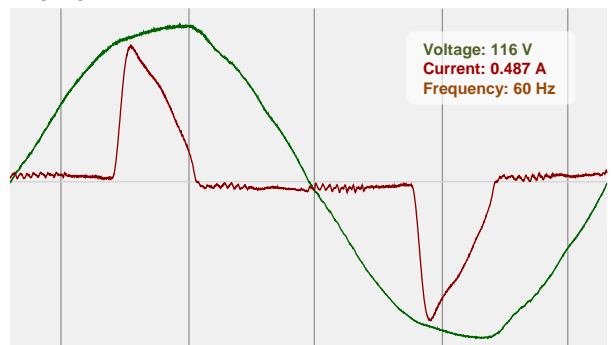
CIE 1931  
x: 0.317  
y: 0.325

Spectra

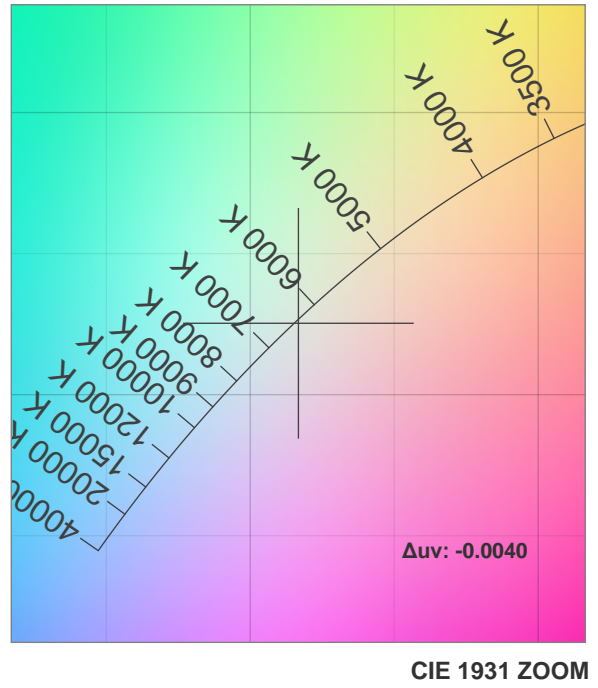
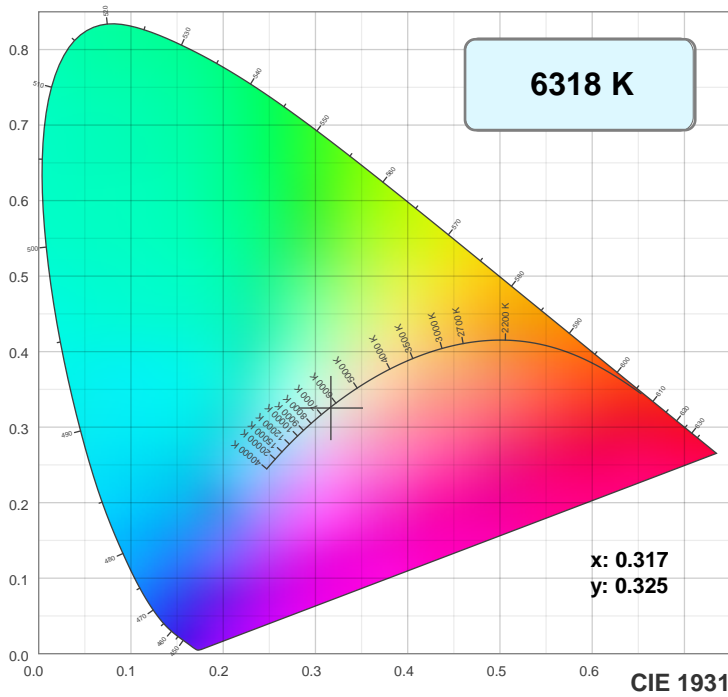
Dominant Wavelength: 829nm



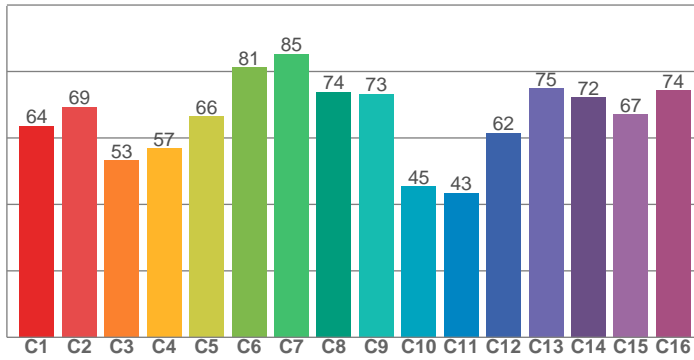
Power



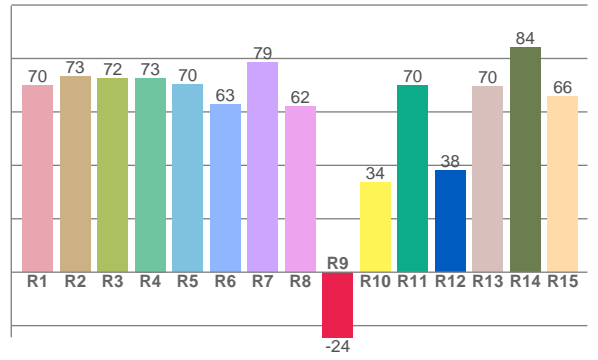
## Color Details



TM30: 65.6



CRI: 70.3 (R1-R8)



CRI R values, only R1-R8 are used to calculate final CRI value

R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11	R12	R13	R14	R15
69.9	73.2	72.4	72.7	70.4	62.8	78.6	62.0	-24.4	33.6	69.8	38.0	69.5	84.1	65.8

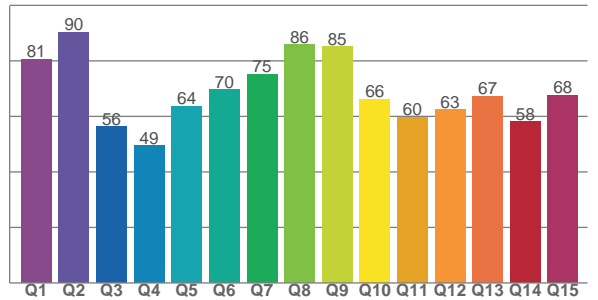
TM30 C values, 16 binned values out of total of 99 C values

C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	C16
63.6	69.3	53.2	56.8	66.5	81.1	85.3	73.9	73.2	45.4	43.5	61.5	74.9	72.2	67.1	74.3

CQS Q values

Q1	Q2	Q3	Q4	Q5	Q6	Q7	Q8	Q9	Q10	Q11	Q12	Q13	Q14	Q15
80.7	90.4	56.3	49.4	63.7	69.6	75.2	85.9	85.1	66.2	59.7	62.5	67.2	58.0	67.7

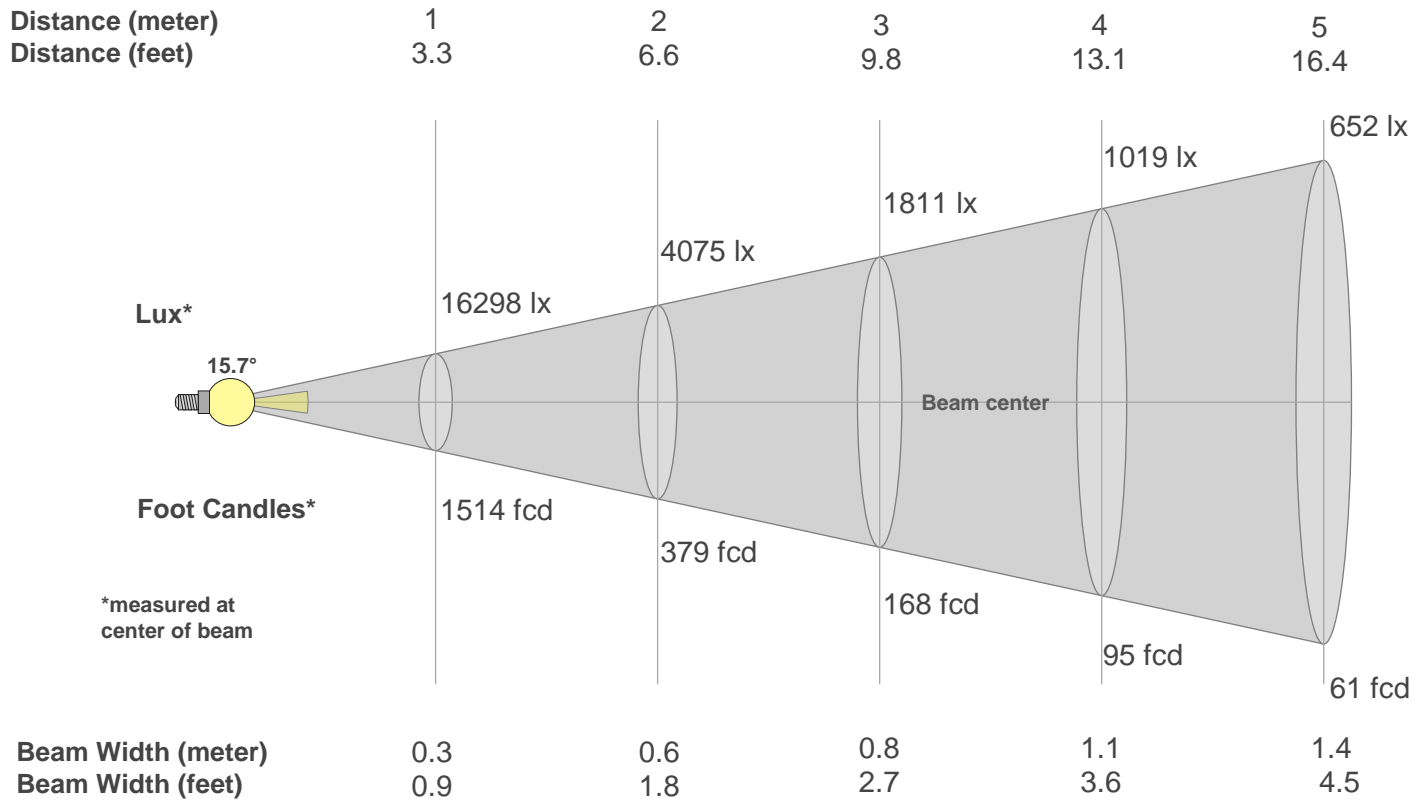
CQS: 67.1



## Color Parameters

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate	Color Coordinate	Color Deviation from Black Body
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg	CQS	x	y	u	v	$\Delta uv$
6318 K	70.3	-24.4	65.6	94.6	67.1	0.317	0.325	0.202	0.311	-0.0040

## Beam Details



**Beam Intensities from 1-20m**

m	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ft	3.3	6.6	9.8	13.1	16.4	19.7	23	26.2	29.5	32.8	36.1	39.4	42.7	45.9	49.2	52.5	55.8	59.1	62.3	65.6
lx	16298	4075	1811	1019	652	453	333	255	201	163	135	113	96	83	72	64	56	50	45	41
fcd	1514.2	378.5	168.2	94.6	60.6	42.1	30.9	23.7	18.7	15.1	12.5	10.5	9	7.7	6.7	5.9	5.2	4.7	4.2	3.8

**Intensities in 0° C-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
16.3K	16.2K	15.6K	14.8K	13.8K	12.5K	11.0K	9.5K	7.9K	6.4K	5.1K	3.9K	2.9K	2.0K	1.3K	0.8K	0.5K	0.3K	0.2K	0.1K
100%	99%	96%	91%	84%	76%	68%	58%	49%	39%	31%	24%	18%	12%	8%	5%	3%	2%	1%	0%

**Intensities in 90° C-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
16.3K	16.2K	15.6K	14.8K	13.8K	12.5K	11.0K	9.5K	7.9K	6.4K	5.1K	3.9K	2.9K	2.0K	1.3K	0.8K	0.5K	0.3K	0.2K	0.1K
100%	99%	96%	91%	84%	76%	68%	58%	49%	39%	31%	24%	18%	12%	8%	5%	3%	2%	1%	0%

**Intensities in 180° C-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
16.3K	16.4K	15.7K	14.8K	13.7K	12.4K	10.9K	9.5K	7.9K	6.5K	5.1K	3.8K	2.8K	1.9K	1.2K	0.7K	0.4K	0.2K	0.1K	0.1K
100%	100%	96%	91%	84%	76%	67%	58%	49%	40%	31%	23%	17%	11%	7%	4%	2%	1%	1%	0%

**Intensities in 270° C-plane**

0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°	11°	12°	13°	14°	15°	16°	17°	18°	19°
16.3K	16.4K	15.7K	14.8K	13.7K	12.4K	10.9K	9.5K	7.9K	6.5K	5.1K	3.8K	2.8K	1.9K	1.2K	0.7K	0.4K	0.2K	0.1K	0.1K
100%	100%	96%	91%	84%	76%	67%	58%	49%	40%	31%	23%	17%	11%	7%	4%	2%	1%	1%	0%

Beam Angle 50%	Field Angle 10%	Cutoff Angle 2,5%	Intensity Ratio in 120° Cone	Intensity Ratio in 90° Cone
15.7°	26.8°	32.3°	100.0%	99.9%