

# Photometric Report

PAR 46 Warm on Dim, , Ordercode

## REPORT SUMMARY

### Output

Total Lumens: 1794 Lumen  
Peak Intensity: 1759 candela  
Illuminance @ 5m: 70 lx  
CRI: 93,5  
CCT: 2791 K

### Optical

Beam Angle (50%) 67,8 °  
Field Angle (10%) 84,7 °

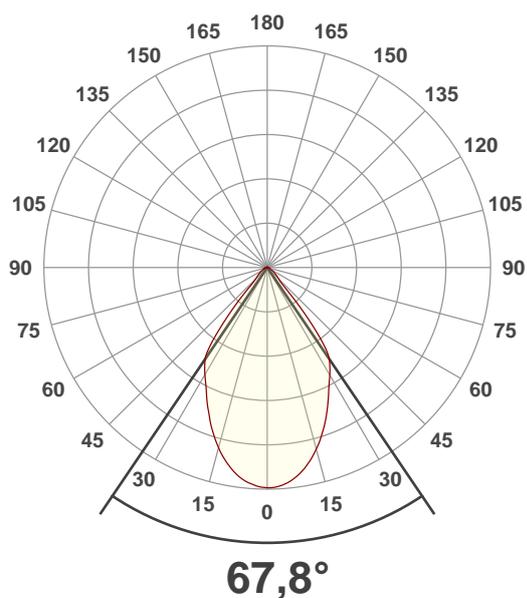
### Conditions:

Power Supply: 221 V  
Power: 29,0 W  
Current: 0,134 A  
Power Factor: 0,98

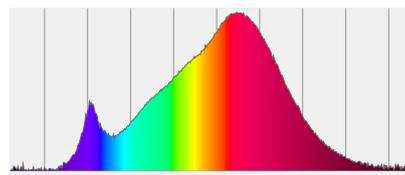


## MEASUREMENTS

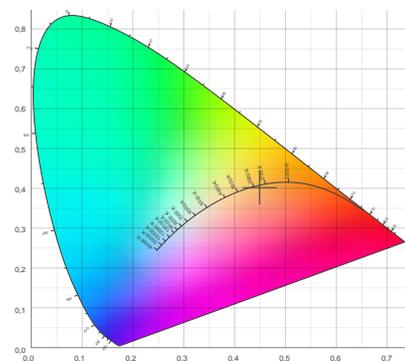
Angular Beam Distribution



Spectral Distribution



CIE 1931

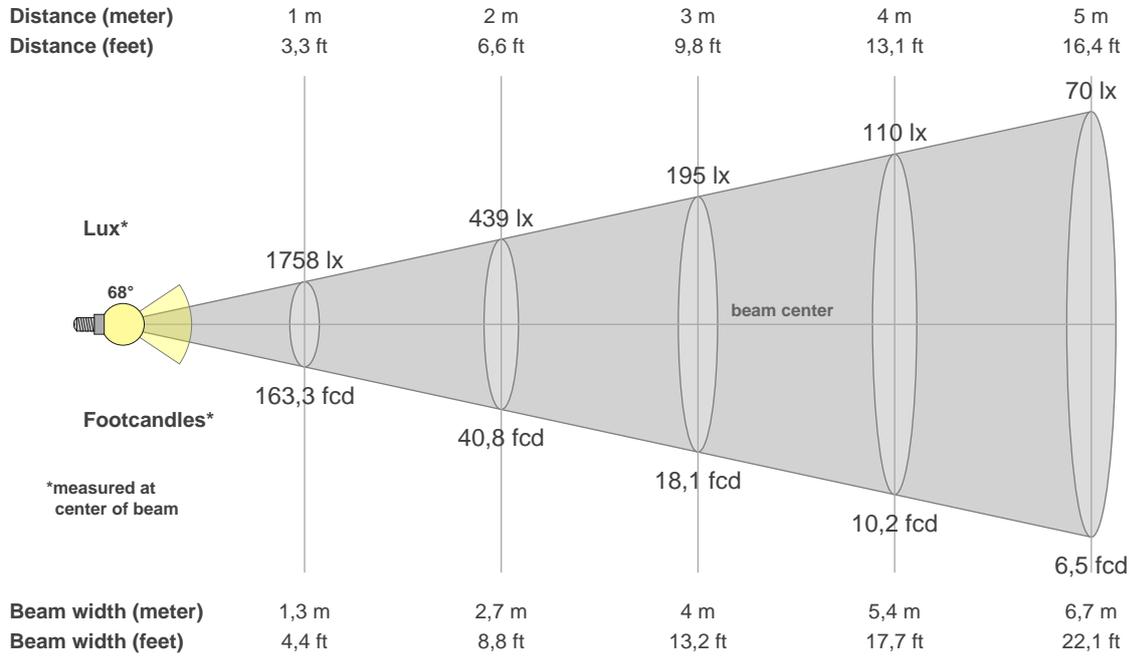


# Photometric Report



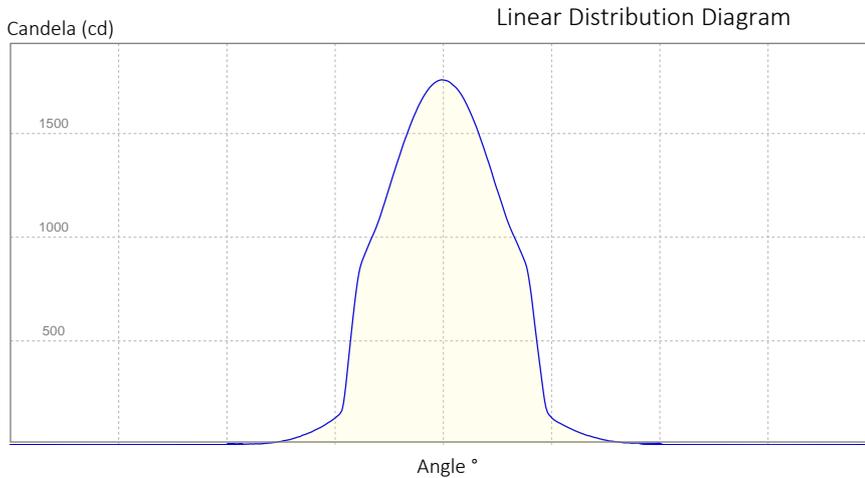
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## BEAM DETAILS



### Beam Illuminances from 1-20m

1m	2m	3m	4m	5m	6m	7m	8m	9m	10m	11m	12m	13m	14m	15m	16m	17m	18m	19m	20m
3,3ft	6,6ft	9,8ft	13,1ft	16,4ft	19,7ft	23ft	26,2ft	29,5ft	32,8ft	36,1ft	39,4ft	42,7ft	45,9ft	49,2ft	52,5ft	55,8ft	59,1ft	62,3ft	65,6ft
1758lx	439lx	195lx	110lx	70lx	49lx	36lx	27lx	22lx	18lx	15lx	12lx	10lx	9lx	8lx	7lx	6lx	5lx	5lx	4lx
163,3fcd	40,8fcd	18,1fcd	10,2fcd	6,5fcd	4,5fcd	3,3fcd	2,6fcd	2fcd	1,6fcd	1,3fcd	1,1fcd	1fcd	0,8fcd	0,7fcd	0,6fcd	0,6fcd	0,5fcd	0,5fcd	0,4fcd



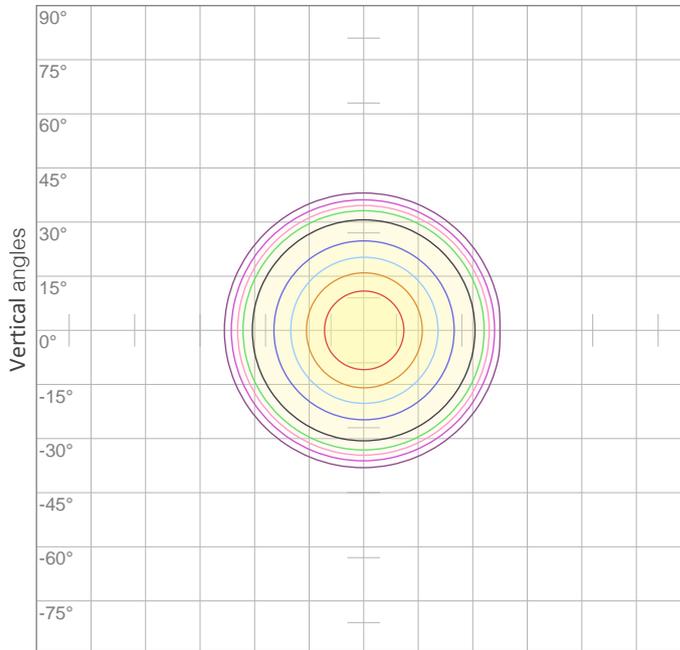
Beam Angle (50%): 67,8 °  
 Field Angle (10%): 84,7 °  
 Cutoff Angle (3%): 118,8 °

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## POLAR DIAGRAMS



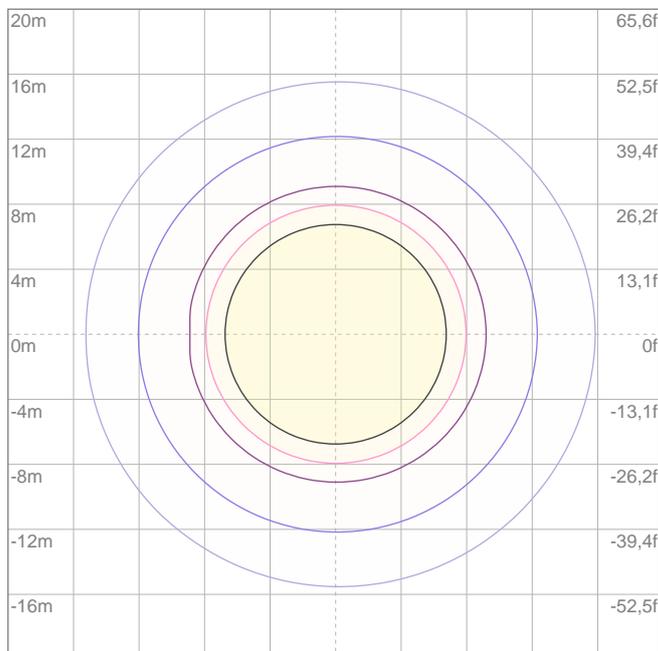
### ISO candela diagram

10%	176 cd
20%	352 cd
30%	527 cd
40%	703 cd
50%	879 cd
60%	1055 cd
70%	1230 cd

Conditions:

Number of c-planes: {C\_PLANES}

Candela at center: 1758 cd



### ISO lux diagram

3%	0,527 lx
5%	0,879 lx
10%	1,76 lx
30%	5,27 lx
50%	8,79 lx

Conditions:

Number of c-planes: 2

Lux at center: 17,6 lx

*Lux distribution on a surface when lamp is mounted at 10 meters from the surface.*

Mounting height: 10 meters (33 feet)

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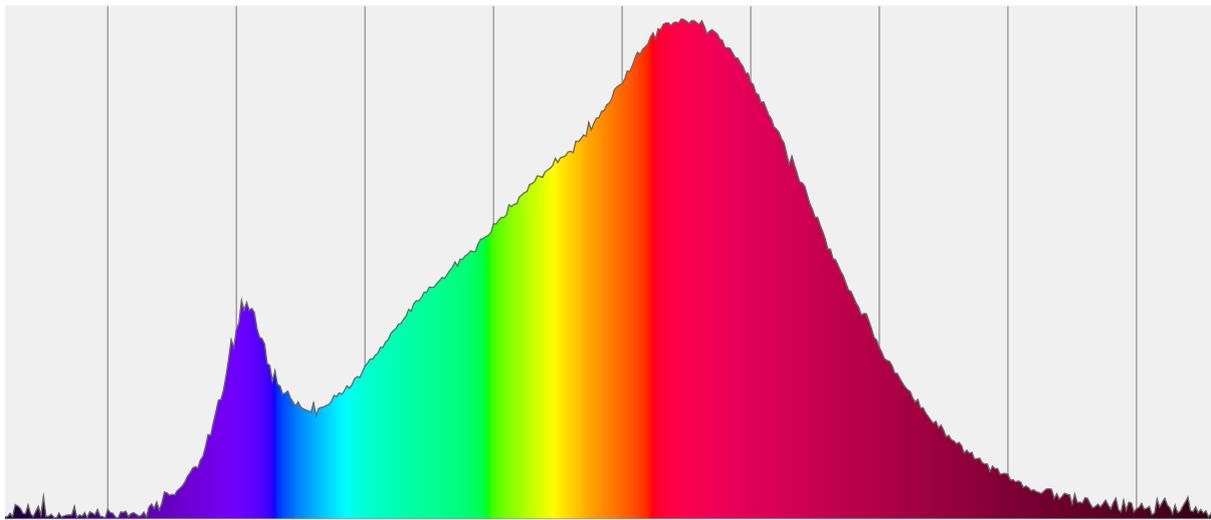
## CHROMATICITY REPORT

Total Lumens: 1794 lm  
Peak Intensity: 1759 cd  
Fixture Efficiency: 62 Lumen/Watt

Color Temperature: 2791 K  
CRI: 93,5  
CRI R9: 65,8  
CQS: 90,3  
TM-30 Rf: 91,8  
TM-30 Rg: 100,3  
 $\Delta uv$ : -0,0023  
1<sup>st</sup> Dominant Wavelength: 623 nm  
2<sup>nd</sup> Dominant Wavelength: 452 nm



Spectral Distribution



### Color

**2791 K**  
CIE 1931 Coordinates:  
X: 0,449 Y: 0,402

### Color Temperature

**2791 K**

### CRI

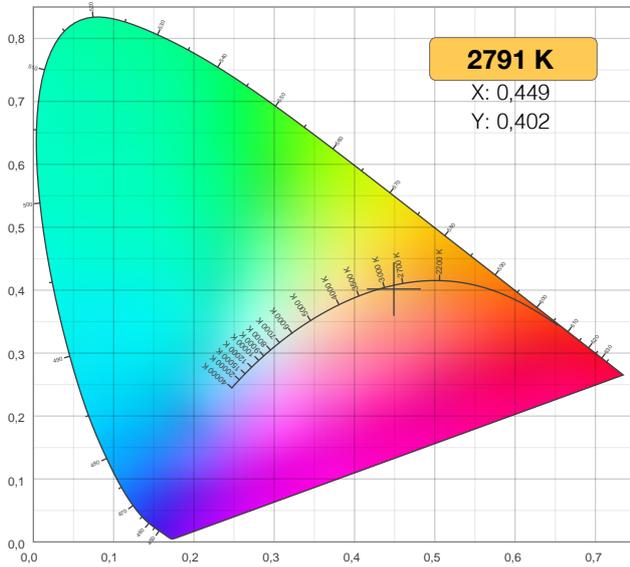
**93,5**

# Photometric Report

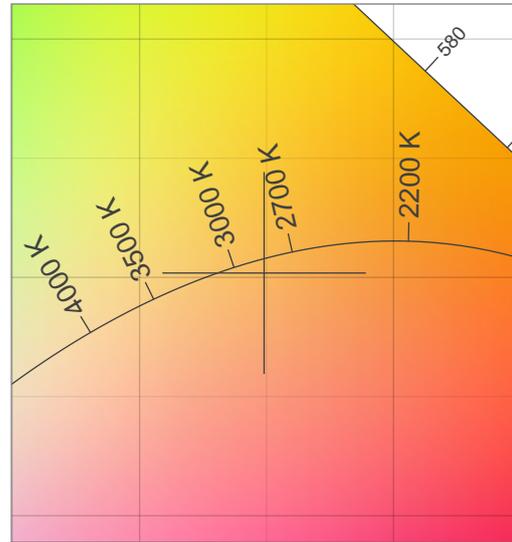
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## CHROMATICITY

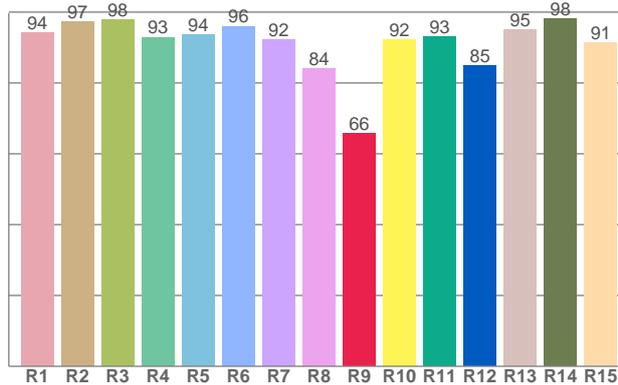
CIE 1931



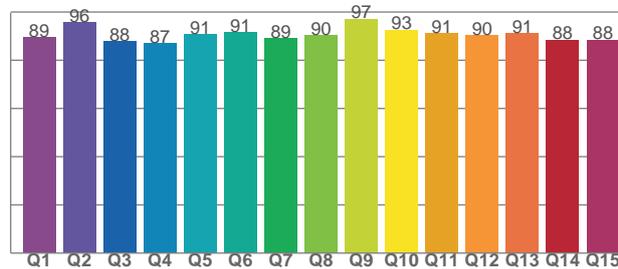
CIE 1931 - Detail



CRI: 93,5 (R1-R8)



CQSI: 90,3



# Photometric Report



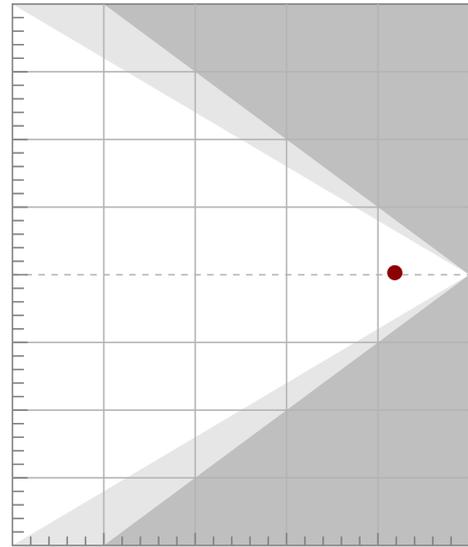
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## TM-30-18 DETAILS

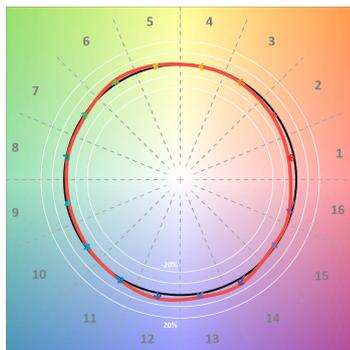
**Rf 91,8**  
Fidelity index Rf

**Rg 100,3**  
Gamut index Rg

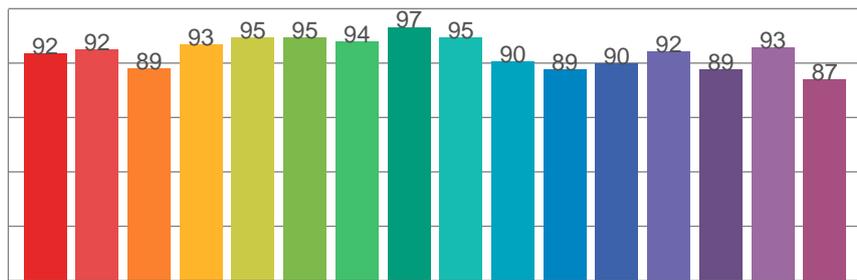
Hue Bin	R <sub>f</sub>	Shifts (%)	
		Chroma	Hue
1	92	-4%	0%
2	92	-3%	3%
3	89	-1%	6%
4	93	0%	3%
5	95	2%	3%
6	95	3%	-1%
7	94	-1%	-3%
8	97	-1%	-1%
9	95	-2%	2%
10	90	-1%	6%
11	89	1%	8%
12	90	5%	2%
13	92	4%	-4%
14	89	5%	-8%
15	93	-1%	-4%
16	87	-2%	-10%



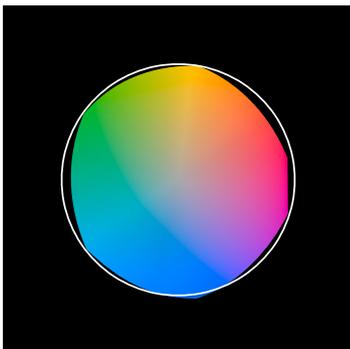
TM30-18 Color Vectors



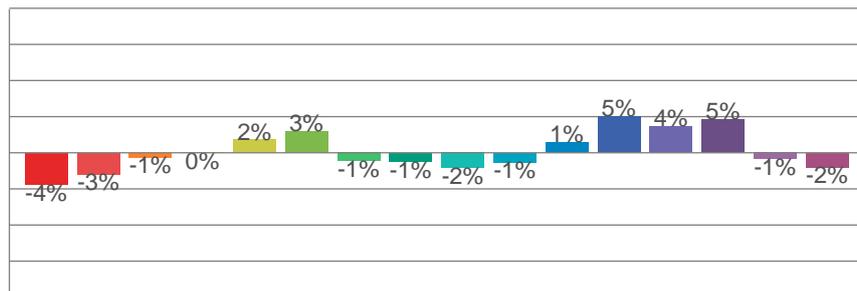
Rf by Hue Bin



TM30 Color Distortion



TM30 Chroma Shift



TM30 Color Fidelity Sample Chart

