

Photometric Report

ERA 600-CRI filter – Wide

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

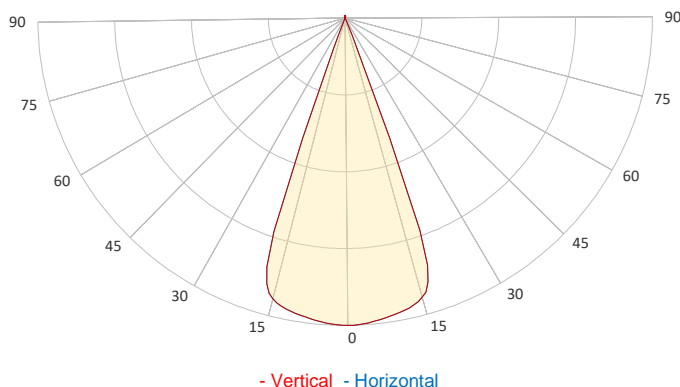
GENERAL SPECIFICATIONS

Total Fixture Output:	13000 lm
Light Engine Output:	37 klm
Efficacy:	17 lm/W
Lens Option:	N/A
Beam Angle (50%):	6-40°
Field Angle (10%):	°
Cut-off Angle (3%):	°
CRI:	79
CQS:	74
TM-30 Rf:	75
TM-30 Rg:	98
TLCI:	56
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

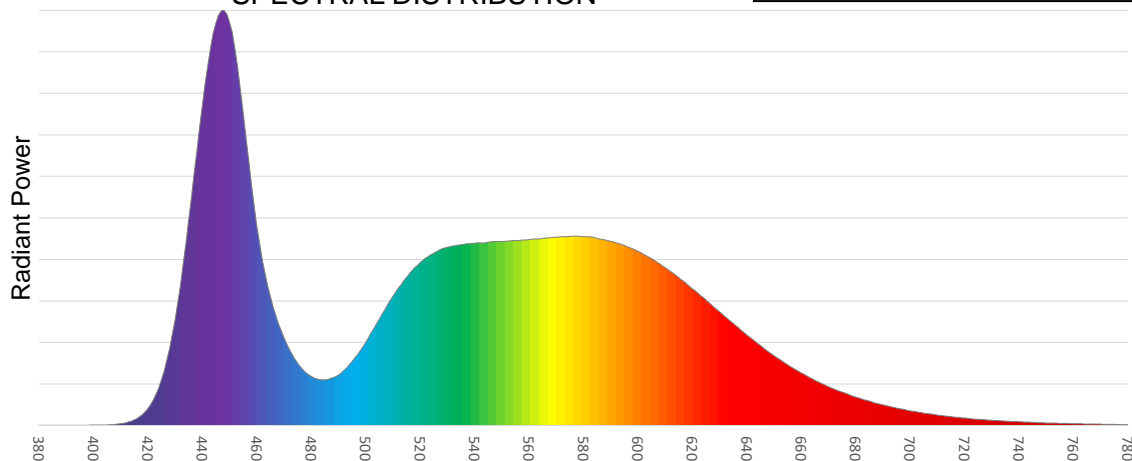


Catalog Number:	ERA 600 CRI Boost Filter
MAR-91614058	
Measured Output:	12075 lm
Measured Peak:	32975 cd
Consumed Power:	742.9 W
Efficacy:	16.8 lm/W

Beam Angle (50%):	39.5°
Field Angle (10%):	42.5°
Cut-off Angle (3%):	45.4°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz
Fan Mode:	
Fixture Warm-up Time:	60 minutes

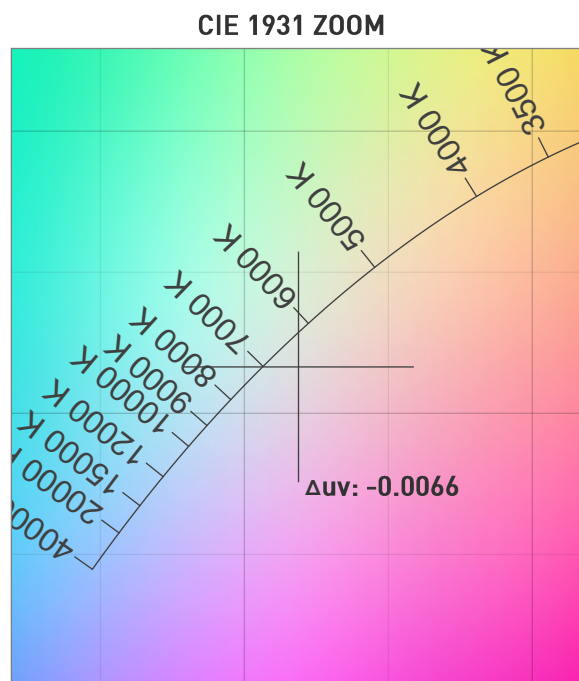
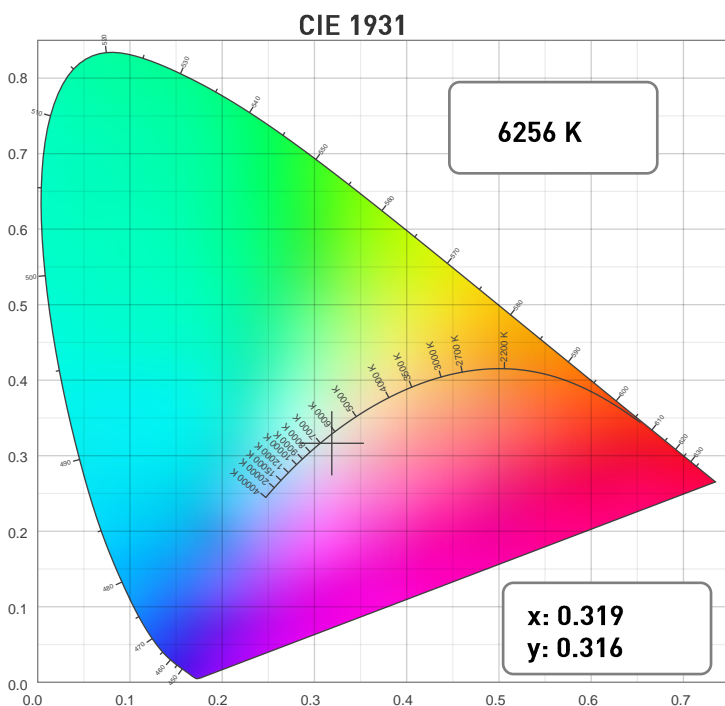
SPECTRAL DISTRIBUTION



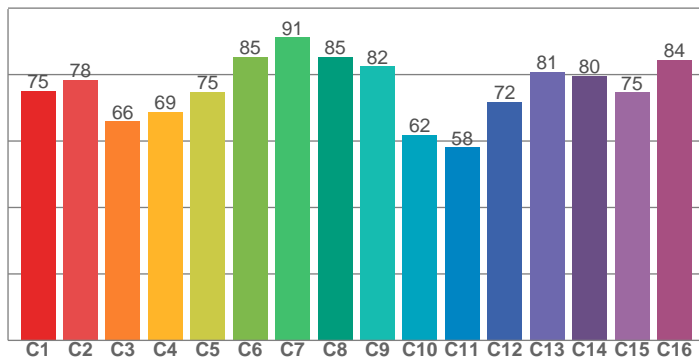
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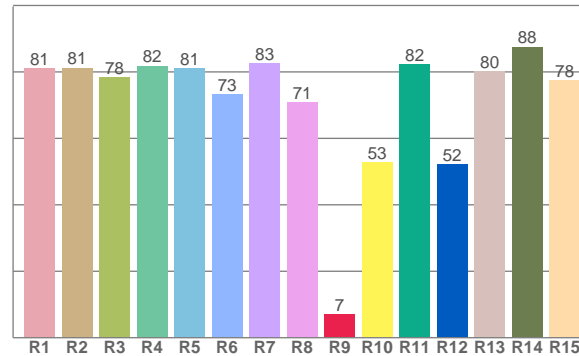
CHROMATICITY



TM30: 75.5



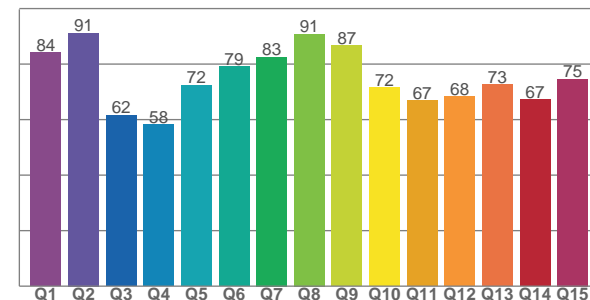
CRI: 78.8 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6256 K	78.8	7.1	75.5	98.8

CQS: 73.3



Television Lighting Consistency Index	Color Quality Scale	Color Coordinate CIE 1931	Color Coordinate CIE 1931	Color Coordinate CIE 1964	Color Coordinate CIE 1964	Color Deviation from Black Body
TLCI	CQS	x	y	u	v	Δuv
56	73.3	0.319	0.316	0.207	0.308	-0.0066

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TM30

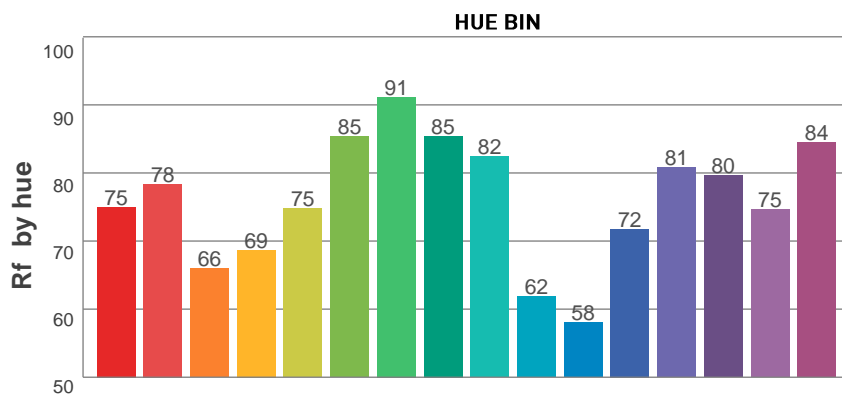
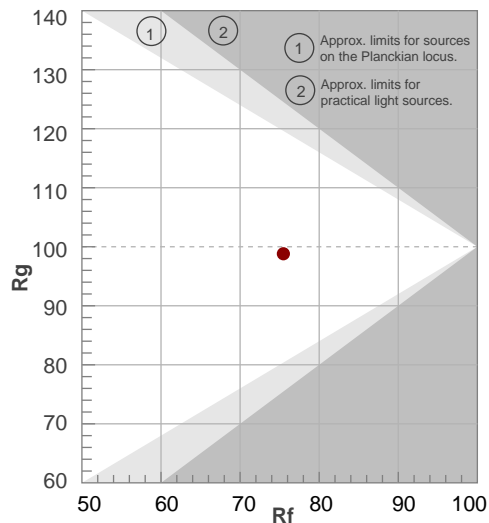
Rf 75.5

Fidelity index Rf

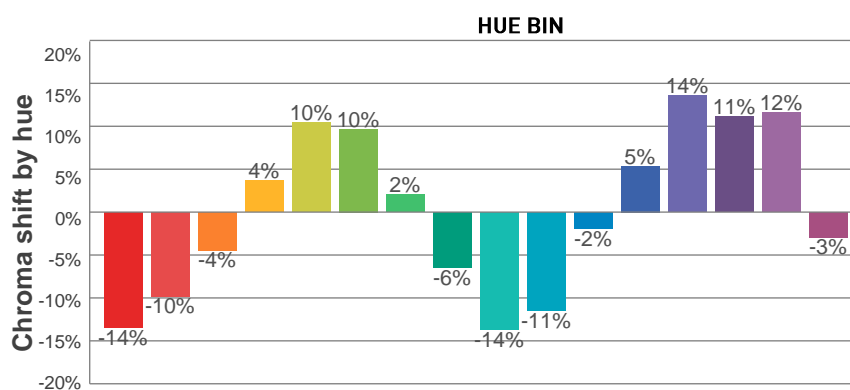
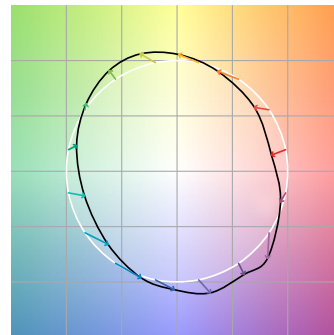
Rg 98.8

Gamut index Rg

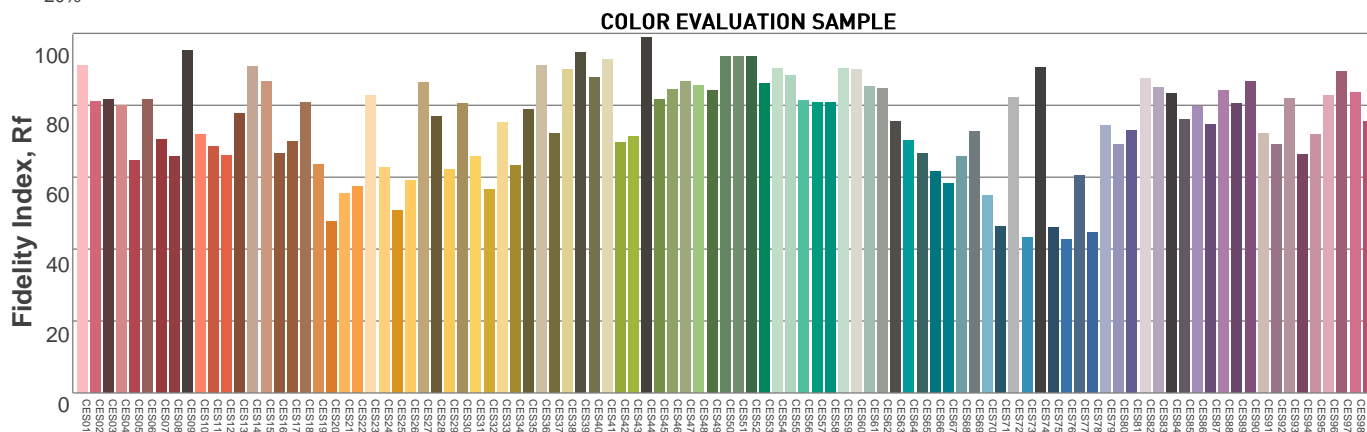
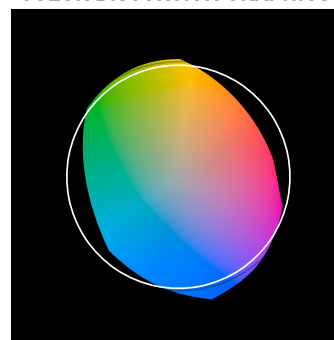
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	75	-14%	-2%
2	78	-10%	9%
3	66	-4%	19%
4	69	4%	19%
5	75	10%	12%
6	85	10%	0%
7	91	2%	-5%
8	85	-6%	-5%
9	82	-14%	5%
10	62	-11%	20%
11	58	-2%	26%
12	72	5%	18%
13	81	14%	8%
14	80	11%	-1%
15	75	12%	-20%
16	84	-3%	-9%



COLOR VECTOR GRAPHICS



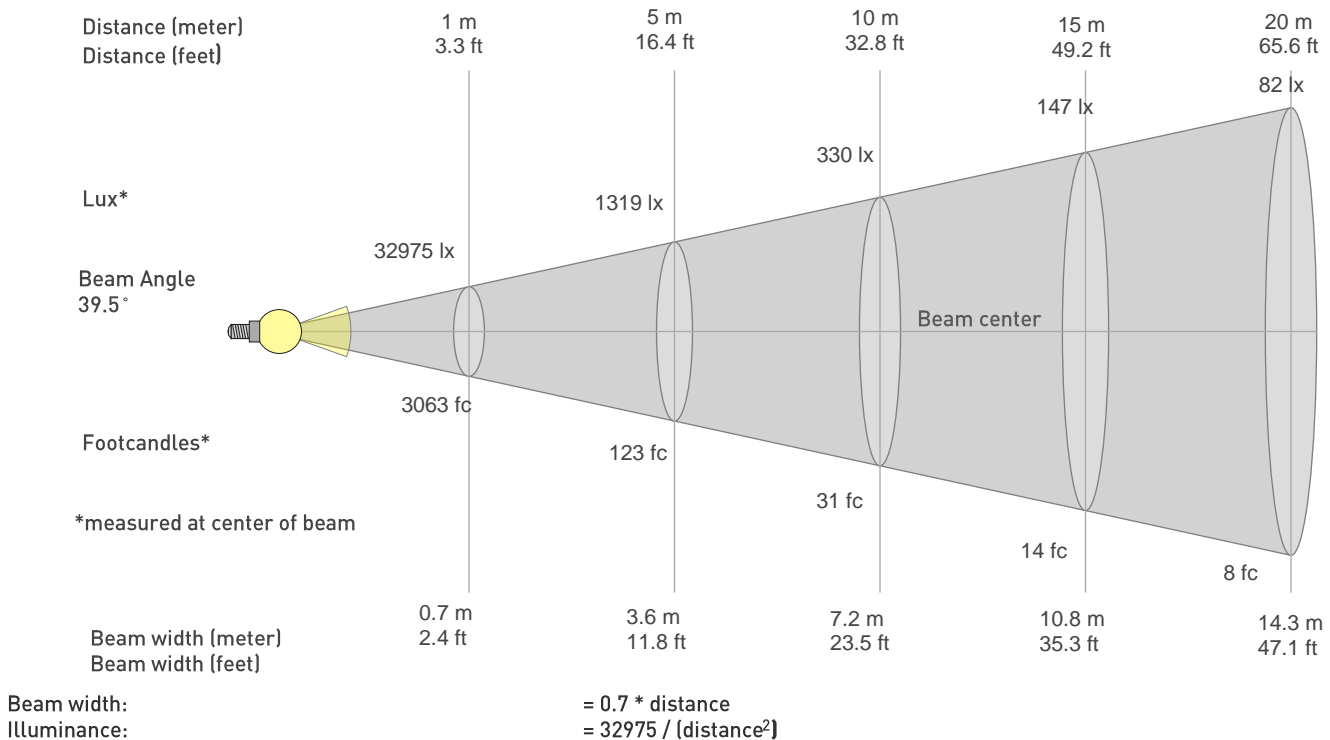
COLOR DISTORTION GRAPHICS



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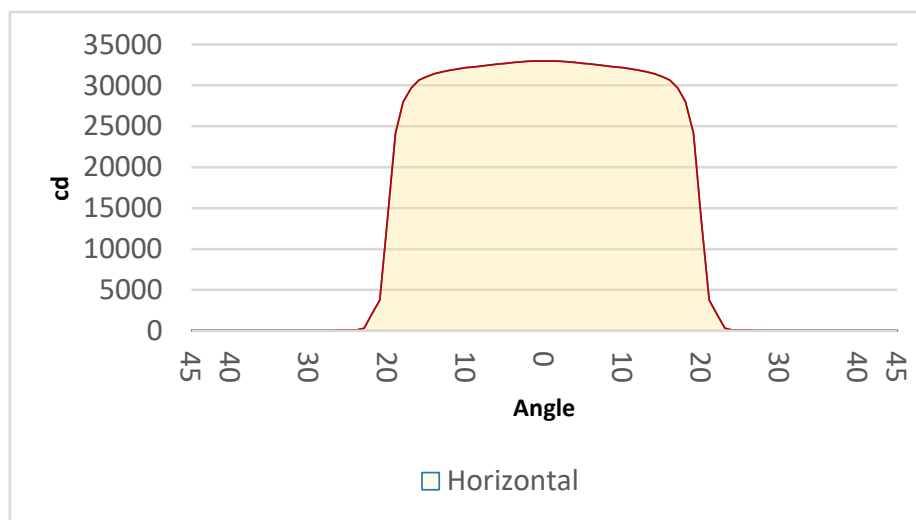
BEAM DETAILS



distance in [m] for illuminance in [lux] distance in [ft] for illuminance in [fc]

BEAM ILLUMINANCE 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
32975lx	8244lx	3664lx	2061lx	1319lx	916lx	673lx	515lx	407lx	330lx	273lx	229lx	195lx	168lx	147lx	129lx	114lx	102lx	91lx	82lx
3063.5fc	765.9fc	340.4fc	191.5fc	122.5fc	85.1fc	62.5fc	47.9fc	37.8fc	30.6fc	25.3fc	21.3fc	18.1fc	15.6fc	13.6fc	12fc	10.6fc	9.5fc	8.5fc	7.7fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
39.5°	42.5°	45.4°