

Photometric Report

ERA 600-CRI filter – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

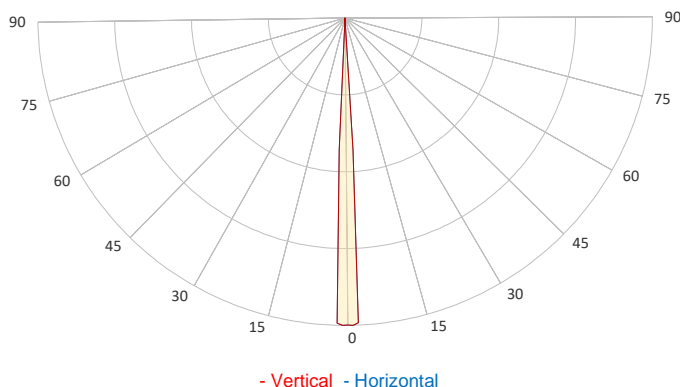
GENERAL SPECIFICATIONS

Total Fixture Output:	13000 lm
Light Engine Output:	37 klm
Efficacy:	9 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

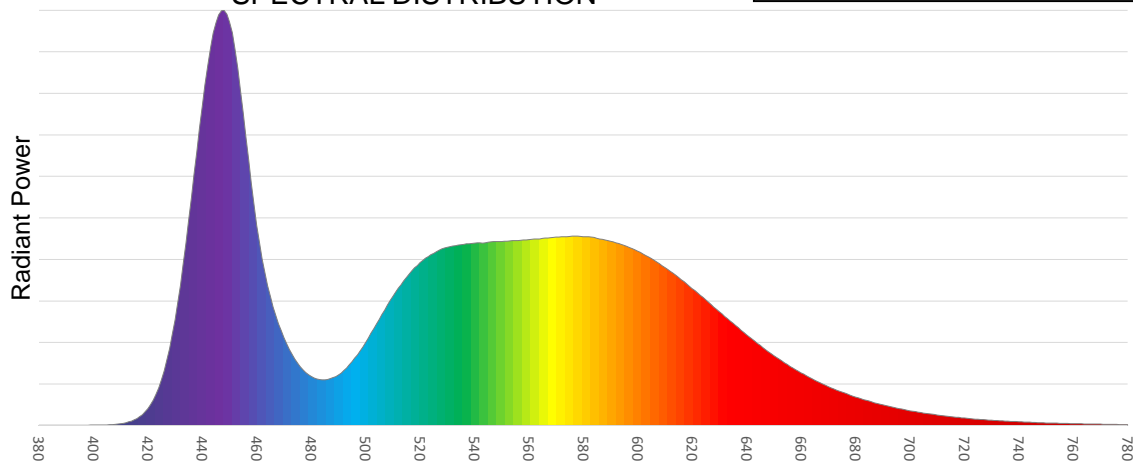
POLAR PLOT



Catalog Number:	ERA 600 CRI Boost Filter
MAR-91614058	
Measured Output:	6558 lm
Measured Peak:	782533 cd
Consumed Power:	742.9 W
Efficacy:	9.1 lm/W
Beam Angle (50%):	5.8°
Field Angle (10%):	6.7°
Cut-off Angle (3%):	7.4°

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

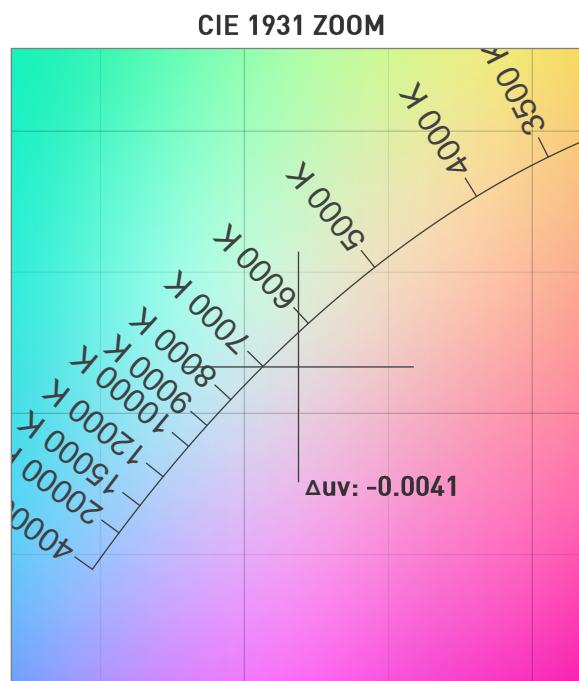
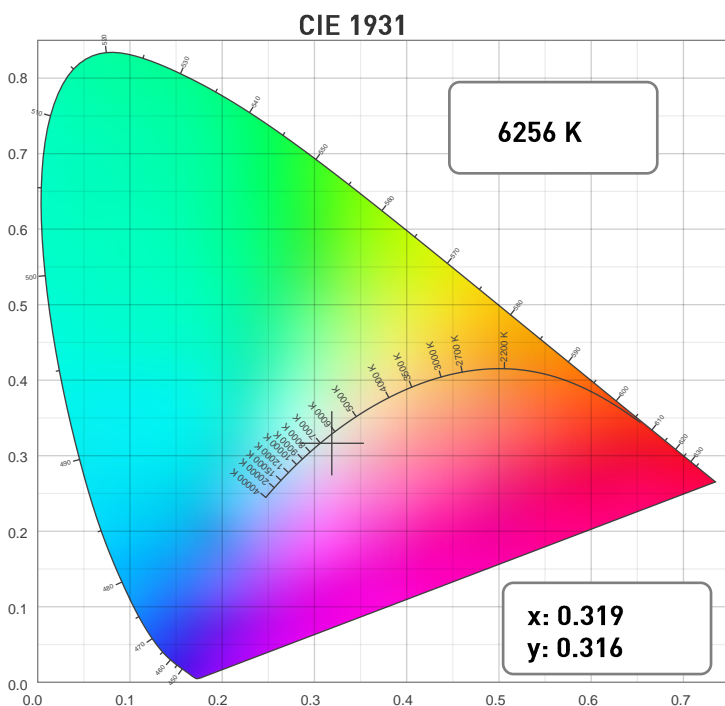
SPECTRAL DISTRIBUTION



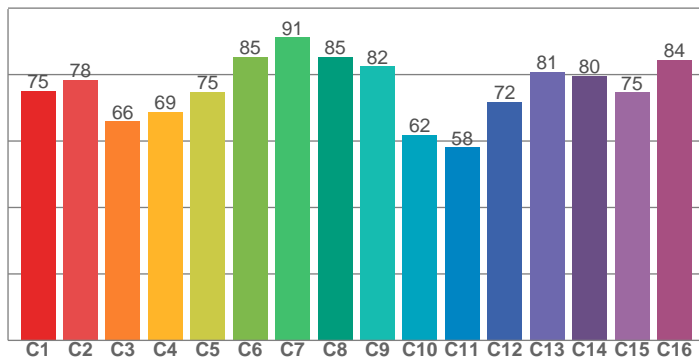
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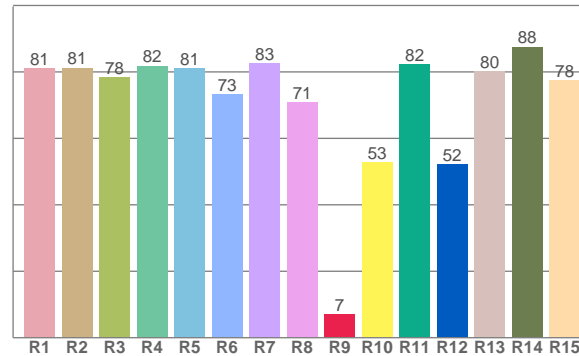
CHROMATICITY



TM30: 75.5



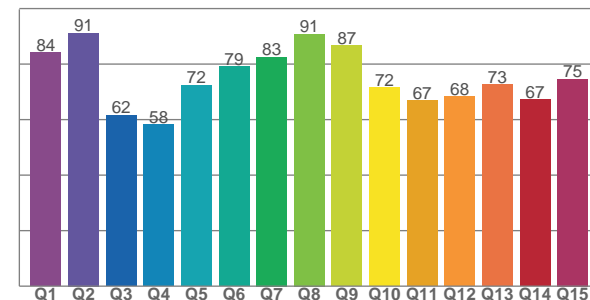
CRI: 78.8 (R1-R8)



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	-0.0041

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TM30

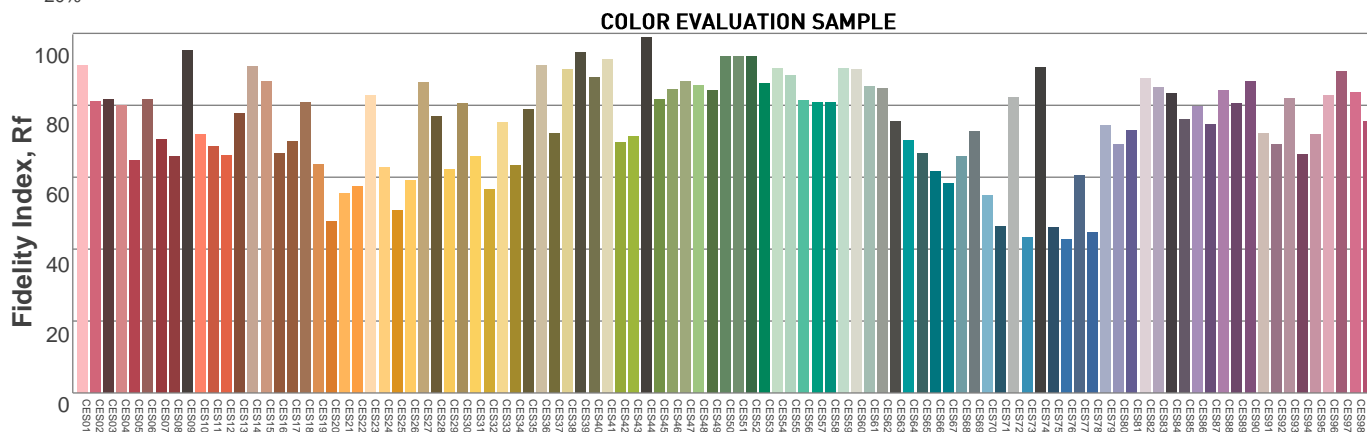
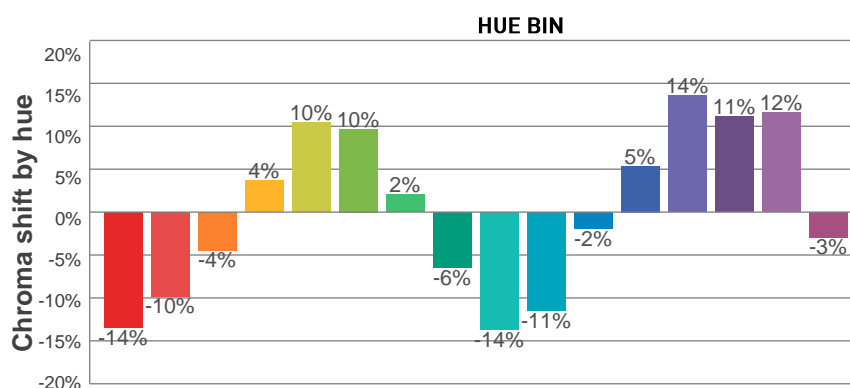
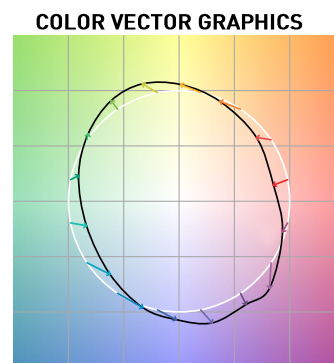
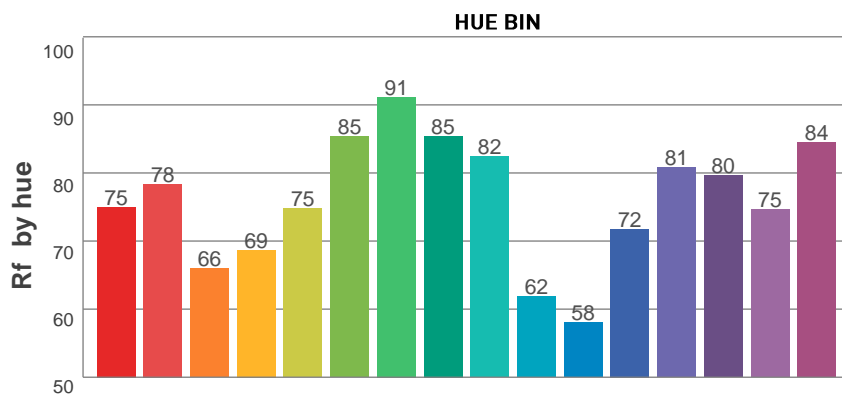
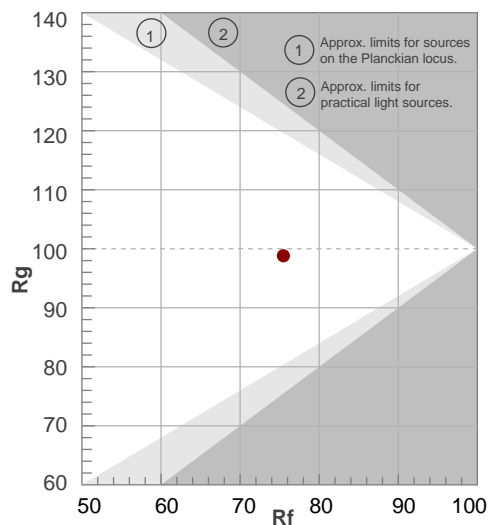
Rf 75.5

Fidelity index Rf

Rg 98.8

Gamut index Rg

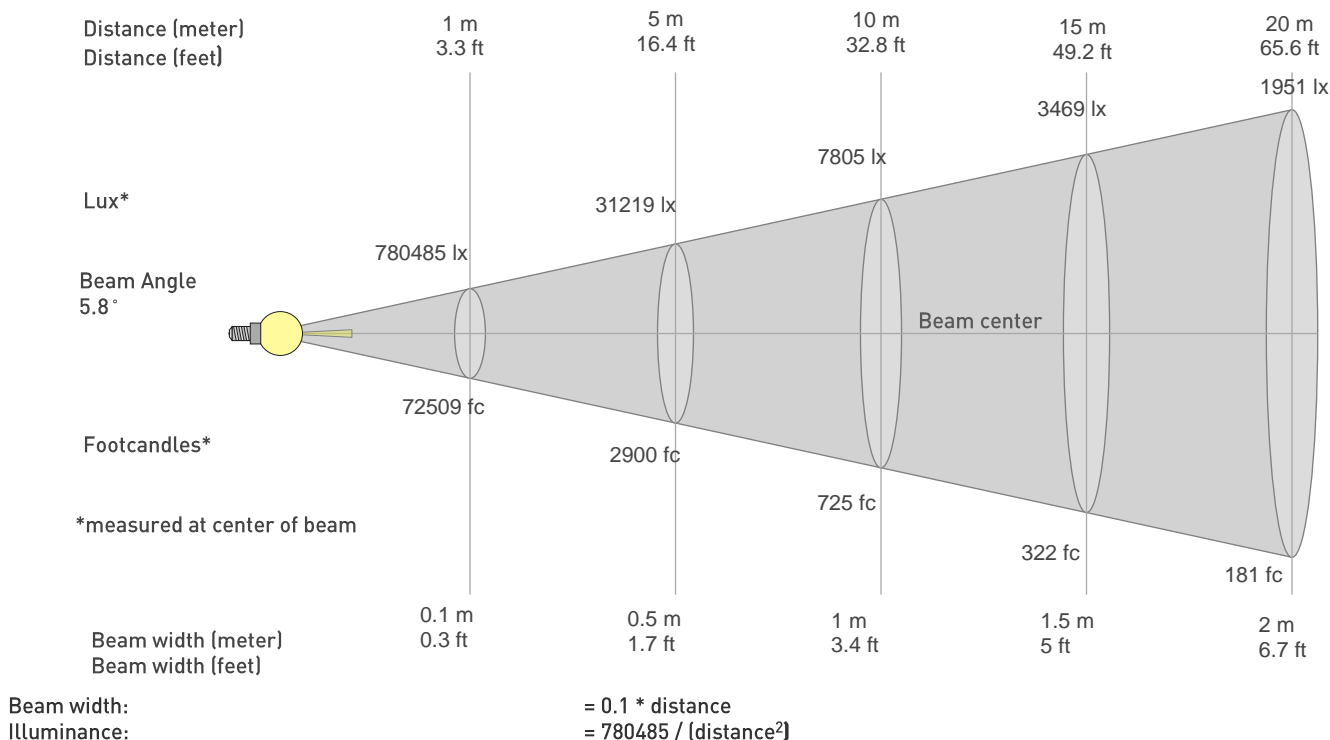
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	75	-14%	-2%
2	78	-10%	9%
3	66	-4%	19%
4	69	4%	19%
5	75	10%	12%
6	85	10%	0%
7	91	2%	-5%
8	85	-6%	-5%
9	82	-14%	5%
10	62	-11%	20%
11	58	-2%	26%
12	72	5%	18%
13	81	14%	8%
14	80	11%	-1%
15	75	12%	-20%
16	84	-3%	-9%



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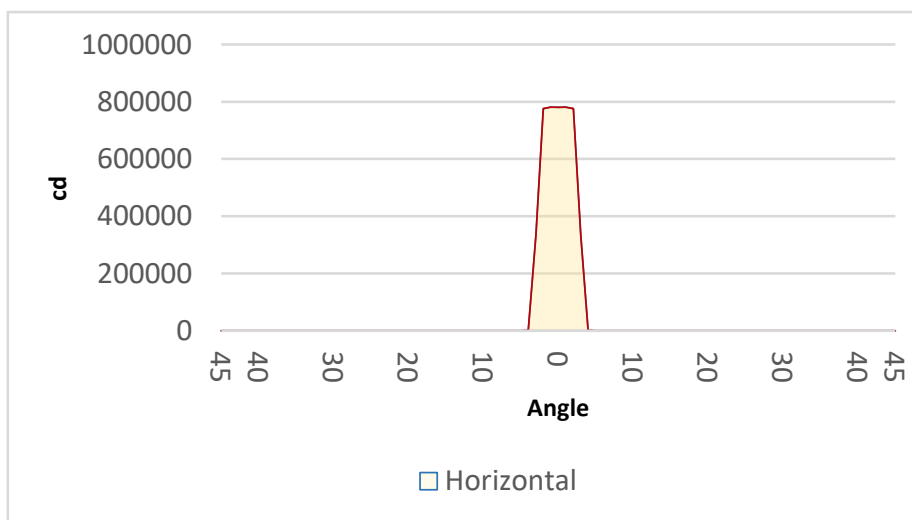
BEAM DETAILS



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
780485lx	195121lx	86721lx	48780lx	31219lx	21680lx	15928lx	12195lx	9636lx	7805lx	6450lx	5420lx	4618lx	3982lx	3469lx	3049lx	2701lx	2409lx	2162lx	1951lx
72509.4fc	18127.4fc	8056.6fc	4531.8fc	2900.4fc	2014.2fc	1479.8fc	1133fc	895.2fc	725.1fc	599.3fc	503.5fc	429fc	369.9fc	322.3fc	283.2fc	250.9fc	223.8fc	200.9fc	181.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
5.8°	6.7°	7.4°