

Photometric Report

ERA 800-CRI filter – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

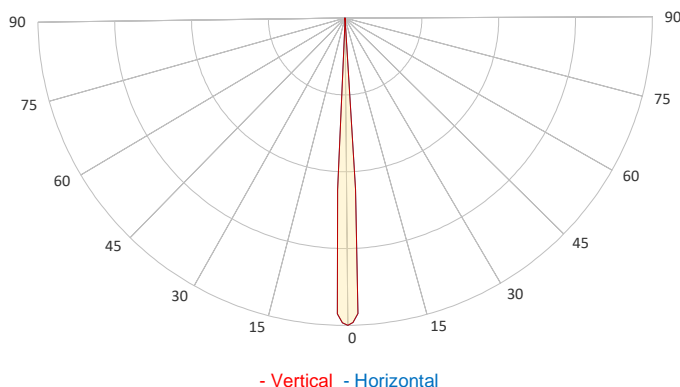
GENERAL SPECIFICATIONS

Total Fixture Output:	25000 lm
Light Engine Output:	70 klm
Efficacy:	11 lm/W
Lens Option:	N/A
Beam Angle (50%):	6-49°
Field Angle (10%):	°
Cut-off Angle (3%):	°
CRI:	79
CQS:	76
TM-30 Rf:	77
TM-30 Rg:	98
TLCI:	57
Color Temperature:	6500 K



SAMPLE MEASUREMENT

POLAR PLOT

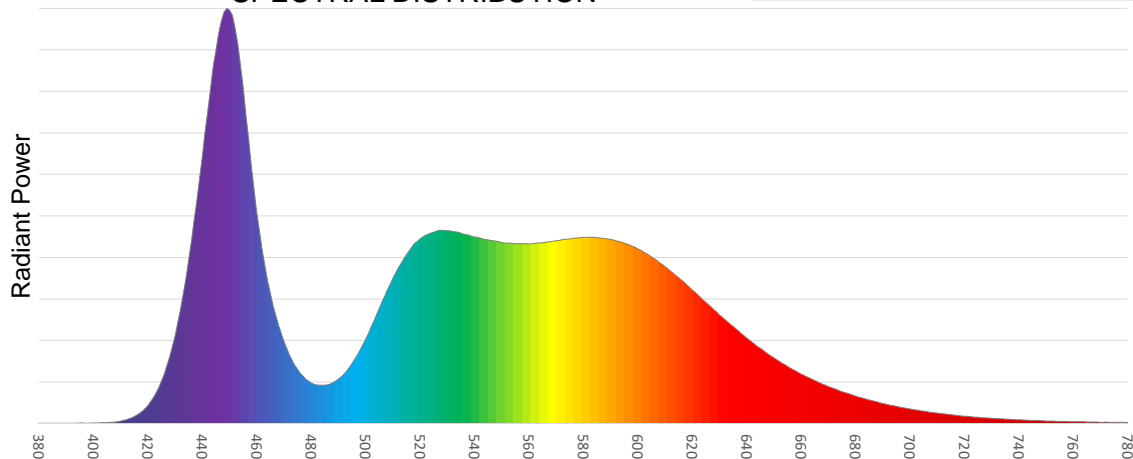


Catalog Number:	ERA 800 CRI Boost Filter
MAR -91614059	
Measured Output:	12494 lm
Measured Peak:	1275943 cd
Consumed Power:	1161.5 W
Efficacy:	11.2 lm/W

Beam Angle (50%):	6.1°
Field Angle (10%):	7°
Cut-off Angle (3%):	7.6°

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

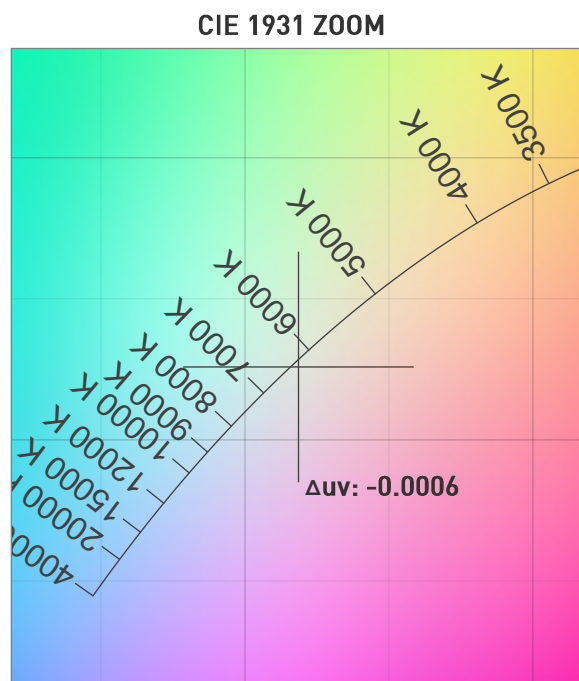
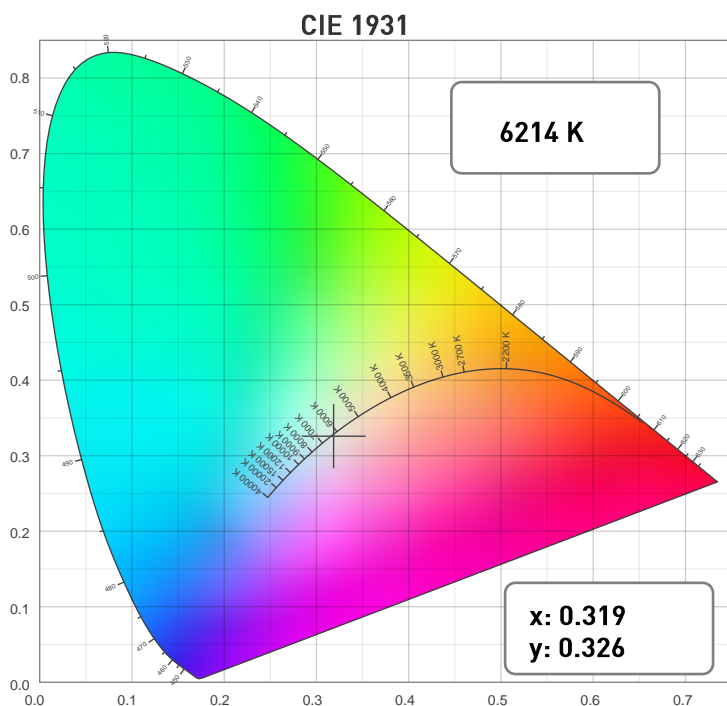
SPECTRAL DISTRIBUTION



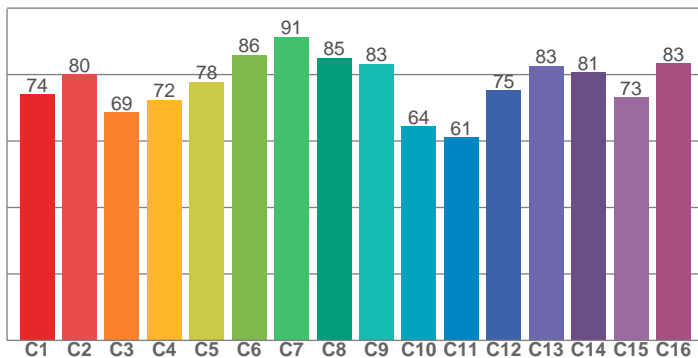
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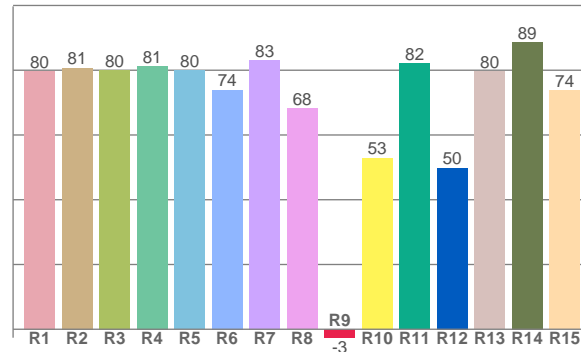
CHROMATICITY



TM30: 76.8



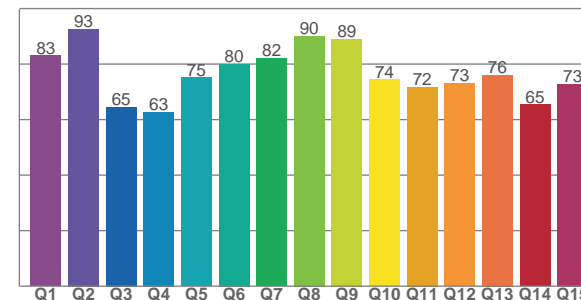
CRI: 78.4 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6214 K	78.4	-2.6	76.8	98.0

CQS: 75.2



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
57	75.2	0.319	0.326	0.203	0.312	-0.0006

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TM30

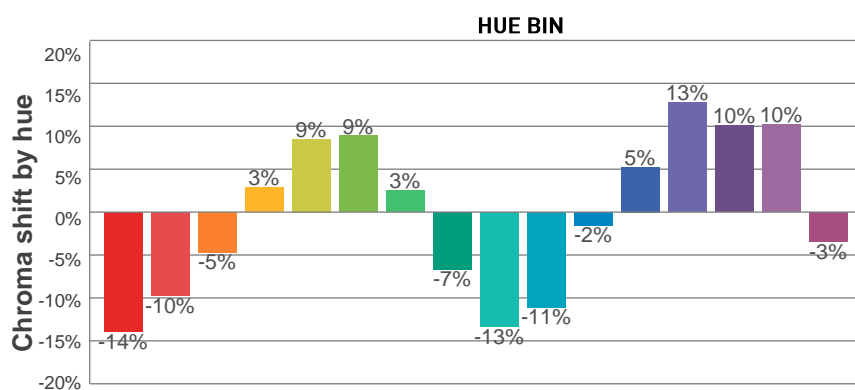
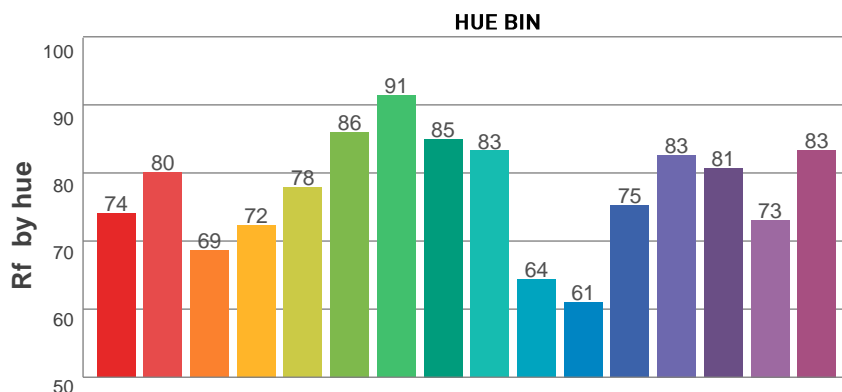
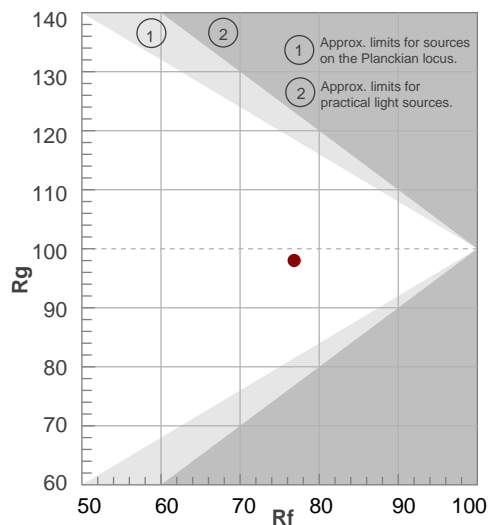
Rf 76.8

Fidelity index Rf

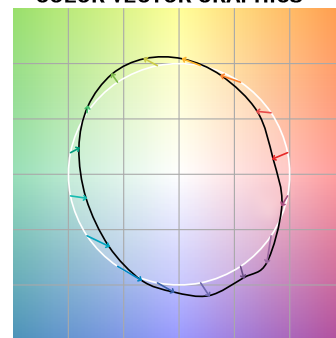
Rg 98.0

Gamut index Rg

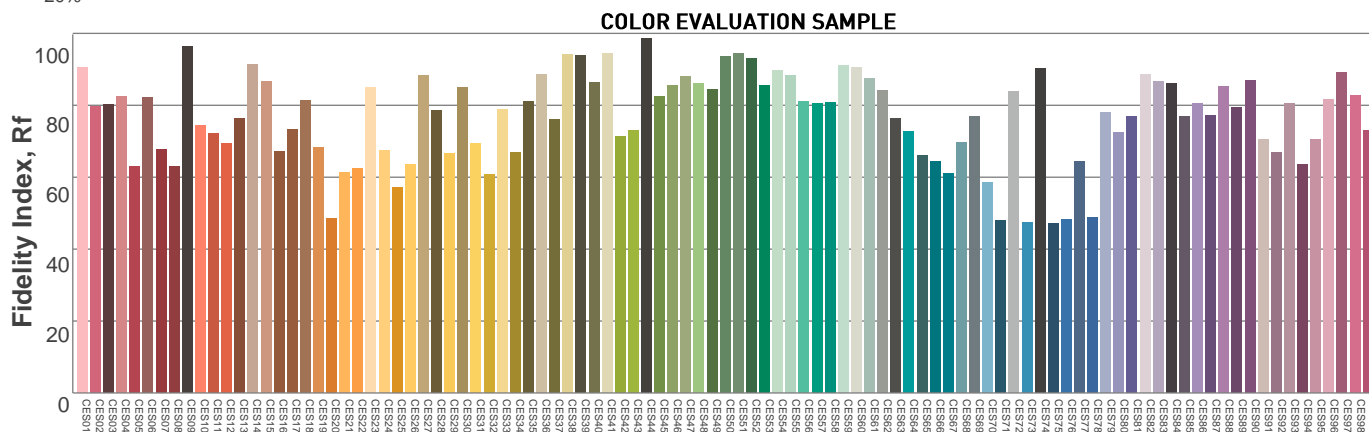
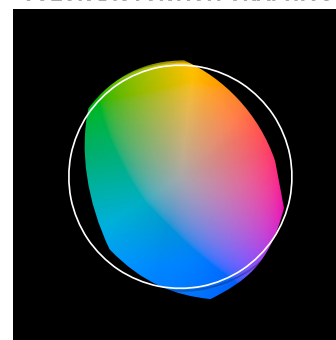
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	74	-14%	-3%
2	80	-10%	8%
3	69	-5%	18%
4	72	3%	17%
5	78	9%	10%
6	86	9%	0%
7	91	3%	-5%
8	85	-7%	-5%
9	83	-13%	5%
10	64	-11%	19%
11	61	-2%	25%
12	75	5%	16%
13	83	13%	5%
14	81	10%	-3%
15	73	10%	-22%
16	83	-3%	-9%



COLOR VECTOR GRAPHICS



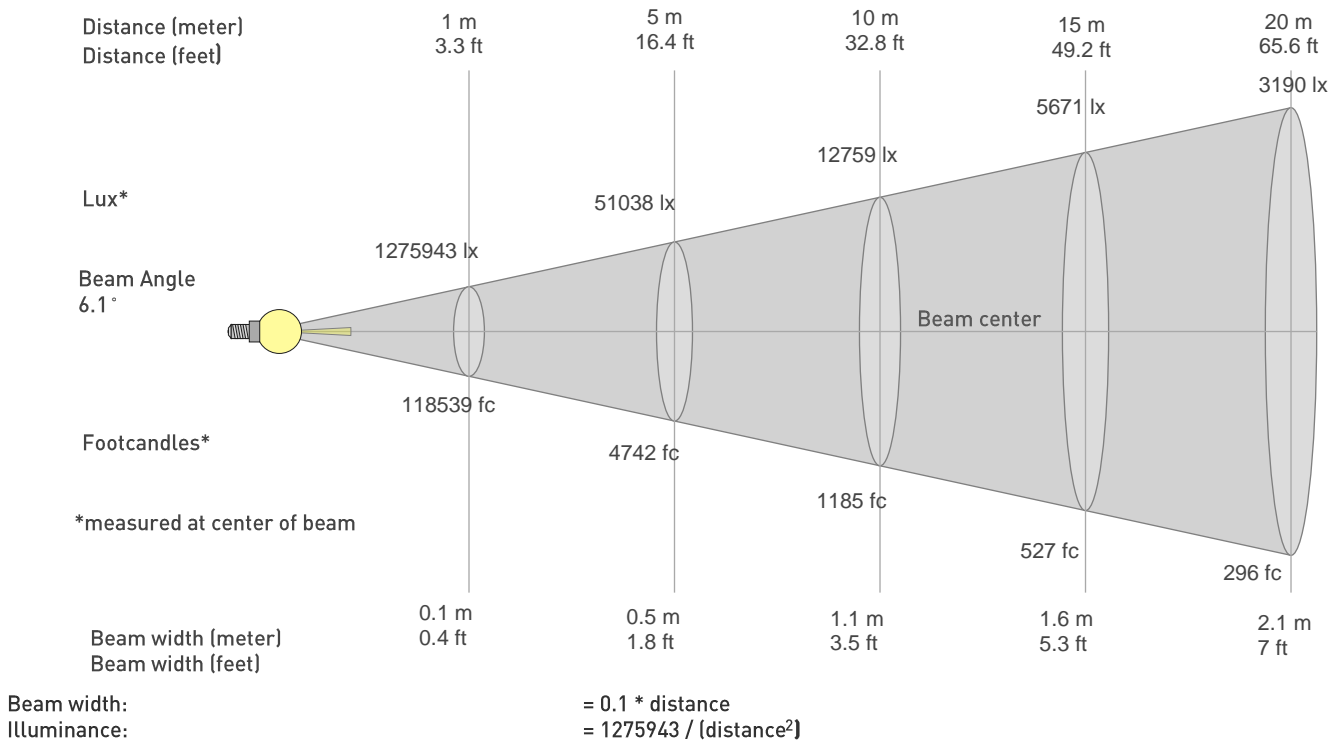
COLOR DISTORTION GRAPHICS



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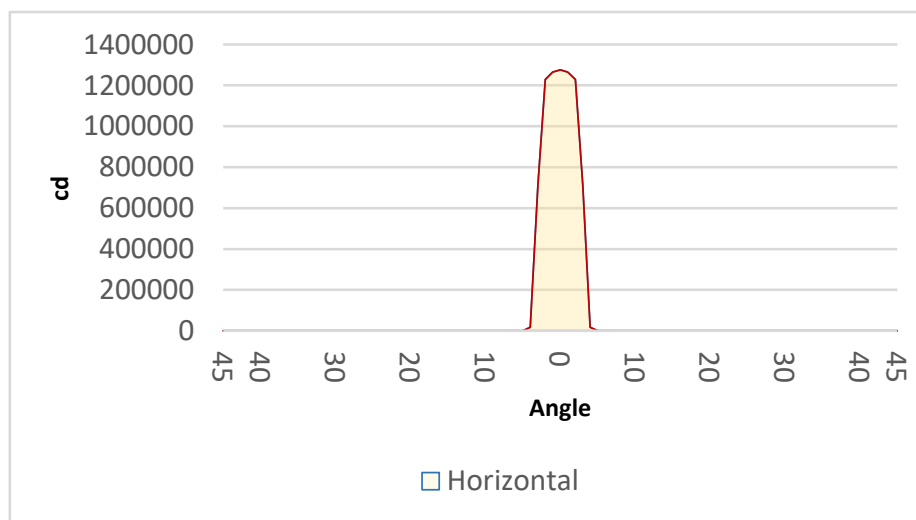
BEAM DETAILS



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
1275943lx	318986lx	141771lx	79746lx	51038lx	35443lx	26040lx	19937lx	15752lx	12759lx	10545lx	8861lx	7550lx	6510lx	5671lx	4984lx	4415lx	3938lx	3534lx	3190lx
118538.9fc	29634.7fc	13171fc	7408.7fc	4741.6fc	3292.7fc	2419.2fc	1852.2fc	1463.4fc	1185.4fc	979.7fc	823.2fc	701.4fc	604.8fc	526.8fc	463fc	410.2fc	365.9fc	328.4fc	296.3fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
6.1°	7°	7.6°