

# Photometric Report

ERA 600 – Narrow

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

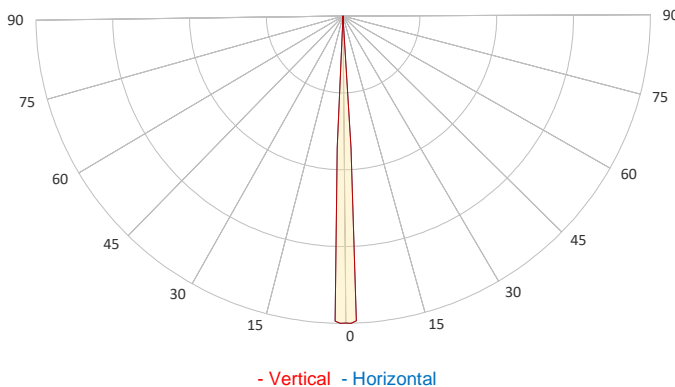
## GENERAL SPECIFICATIONS

Total Fixture Output:	19000 lm
Light Engine Output:	37 klm
Efficacy:	12 lm/W
Lens Option:	N/A
Beam Angle (50%):	6-40°
Field Angle (10%):	°
Cut-off Angle (3%):	°
CRI:	70
CQS:	67
TM-30 Rf:	65
TM-30 Rg:	96
TLCI:	45
Color Temperature:	6800 K



## SAMPLE MEASUREMENT

POLAR PLOT

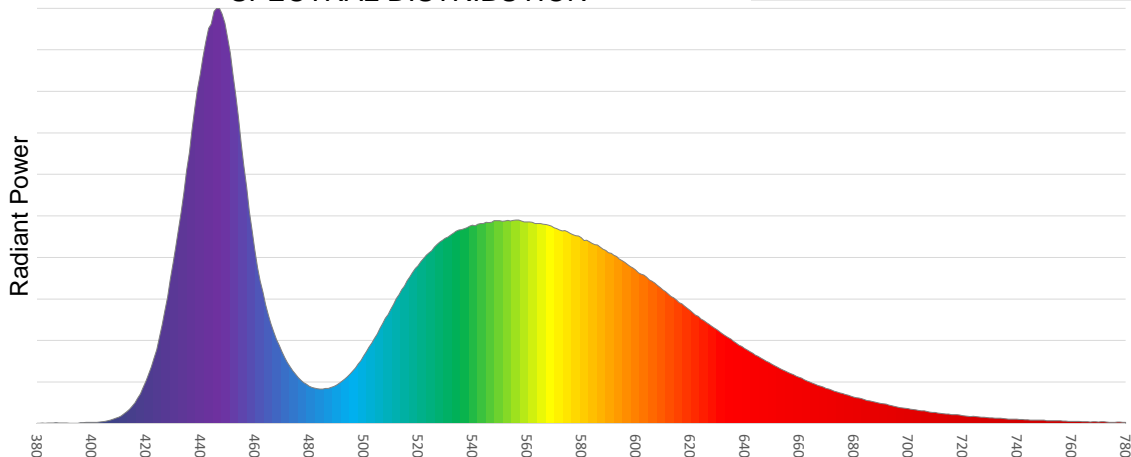


Catalog Number:	9025122049
Measured Output:	8907 lm
Measured Peak:	1040394 cd
Consumed Power:	742.9 W
Efficacy:	12.4 lm/W

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

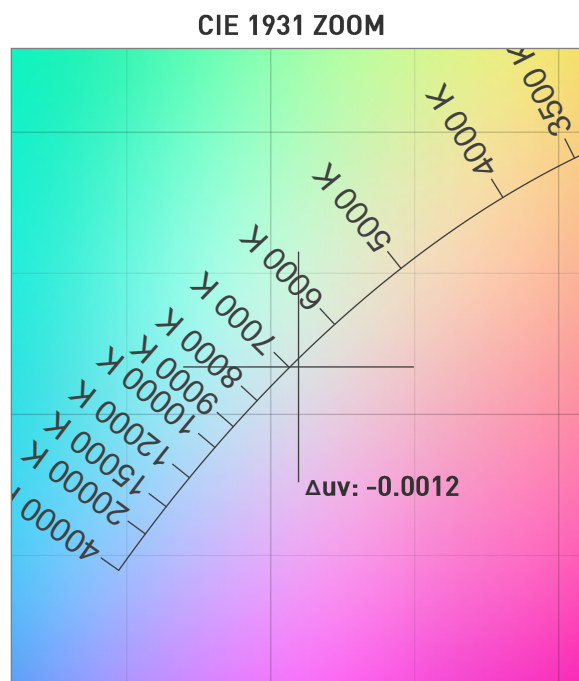
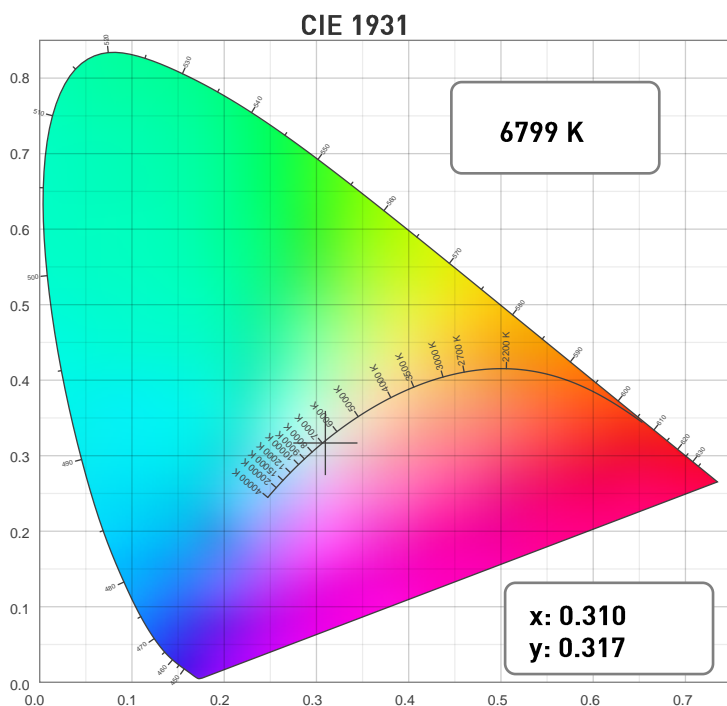
SPECTRAL DISTRIBUTION



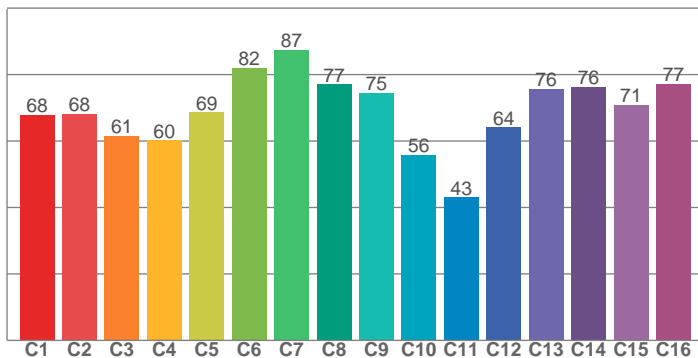
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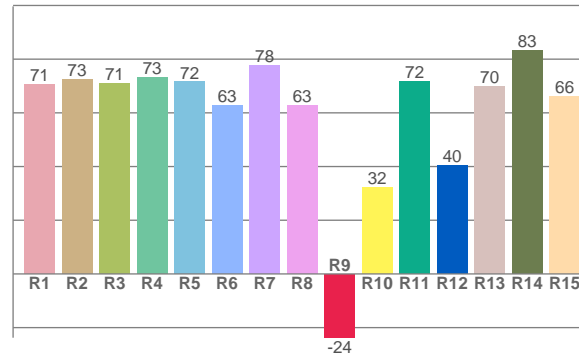
## CHROMATICITY



TM30: 69.0



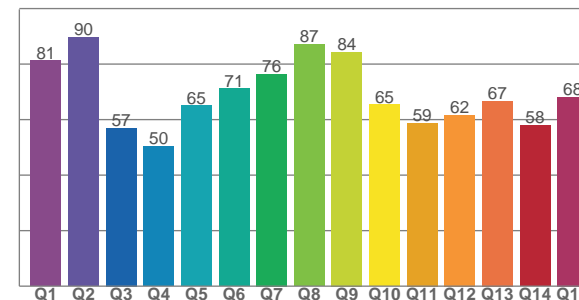
CRI: 70.3 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6799 K	70.3	-23.8	69.0	95.5

CQS: 67.3



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
45	67.3	0.310	0.317	0.200	0.307	-0.0012

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TM30

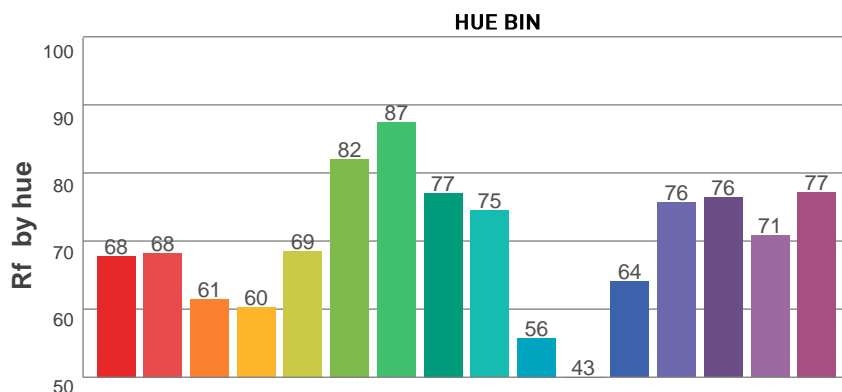
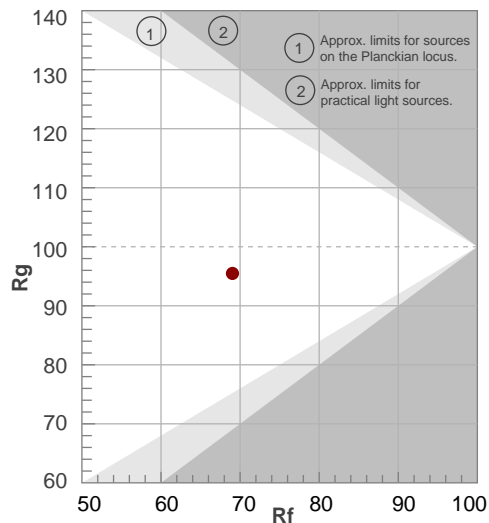
Rf 69.0

Fidelity index Rf

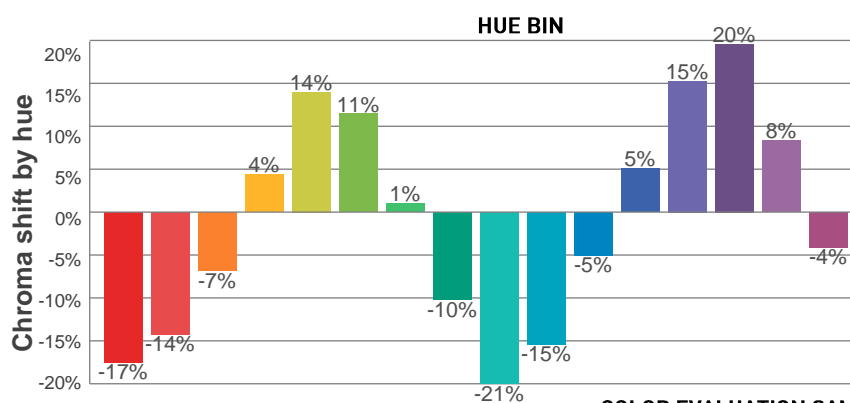
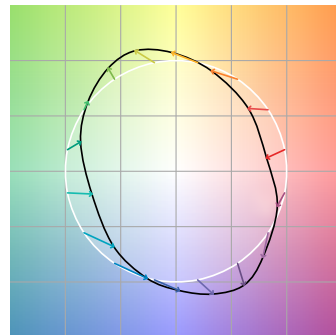
Rg 95.5

Gamut index Rg

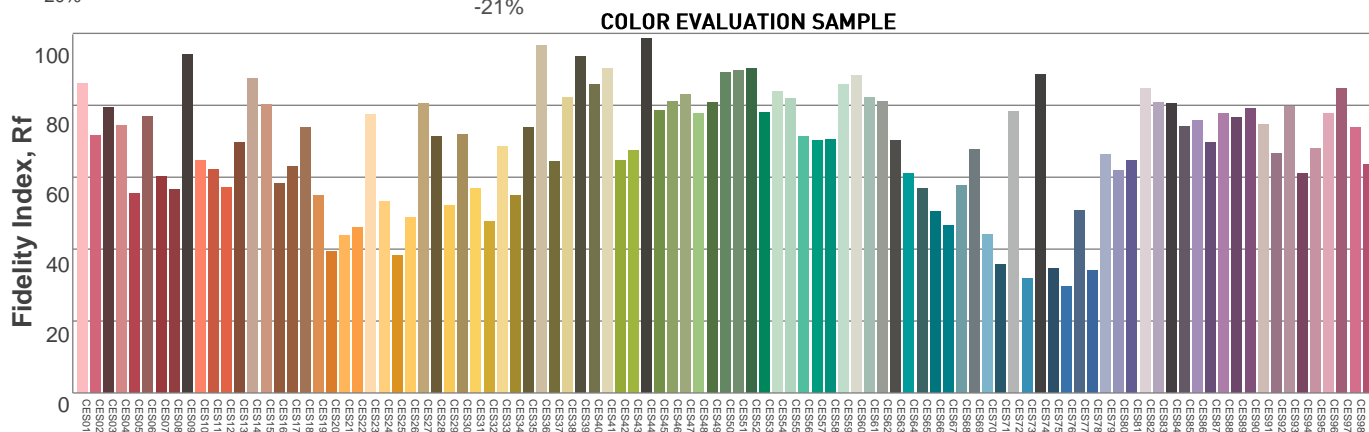
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	68	-17%	-4%
2	68	-14%	11%
3	61	-7%	24%
4	60	4%	24%
5	69	14%	15%
6	82	11%	-1%
7	87	1%	-8%
8	77	-10%	-9%
9	75	-21%	5%
10	56	-15%	25%
11	43	-5%	32%
12	64	5%	24%
13	76	15%	11%
14	76	20%	-6%
15	71	8%	-21%
16	77	-4%	-13%



COLOR VECTOR GRAPHICS



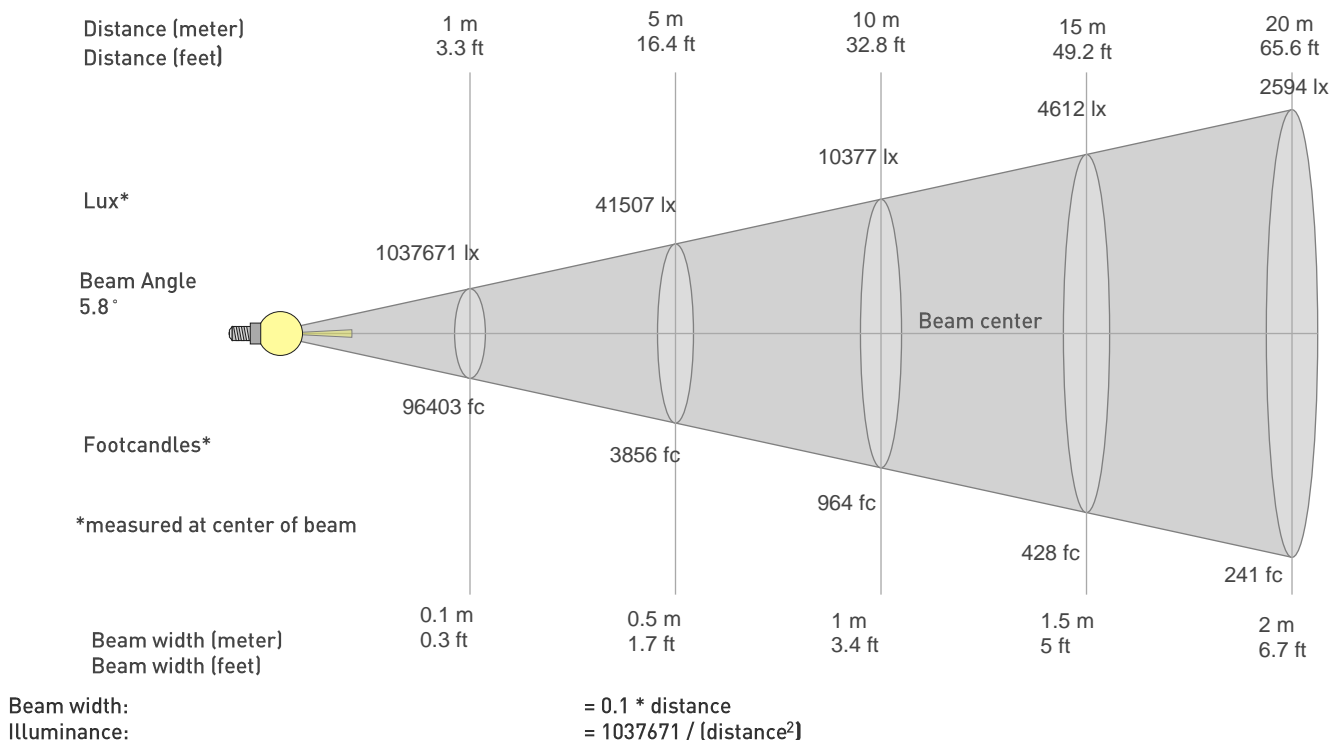
COLOR DISTORTION GRAPHICS



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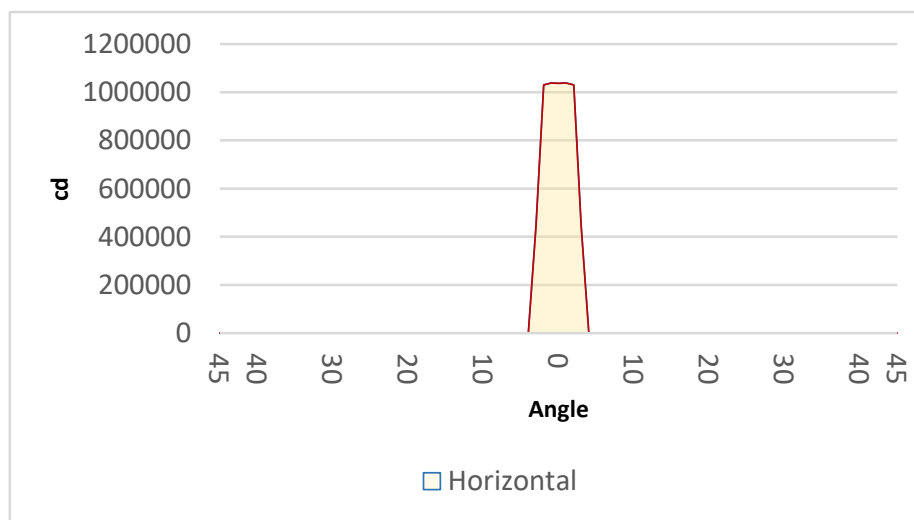
## BEAM DETAILS



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
1037671lx	259418lx	115297lx	64854lx	41507lx	28824lx	21177lx	16214lx	12811lx	10377lx	8576lx	7206lx	6140lx	5294lx	4612lx	4053lx	3591lx	3203lx	2874lx	2594lx
96402.8fc	24100.7fc	10711.4fc	6025.2fc	3856.1fc	2677.9fc	1967.4fc	1506.3fc	1190.2fc	964fc	796.7fc	669.5fc	570.4fc	491.9fc	428.5fc	376.6fc	333.6fc	297.5fc	267fc	241fc



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