

# Photometric Report

ERA 400 – Wide

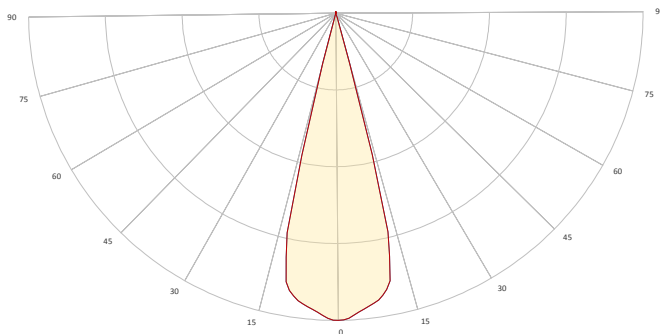
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

## GENERAL SPECIFICATIONS

Total Fixture Output:	5900 lm
Light Engine Output:	14 klm
Efficacy:	14 Lumen/Watt
Lens Option:	N/A
Zoomrange:	10-30°
CRI:	96
CQS:	94
TM-30 Rf:	91
TM-30 Rg:	99
TLCI:	96
Color Temperature:	3300 K



## MEASUREMENT



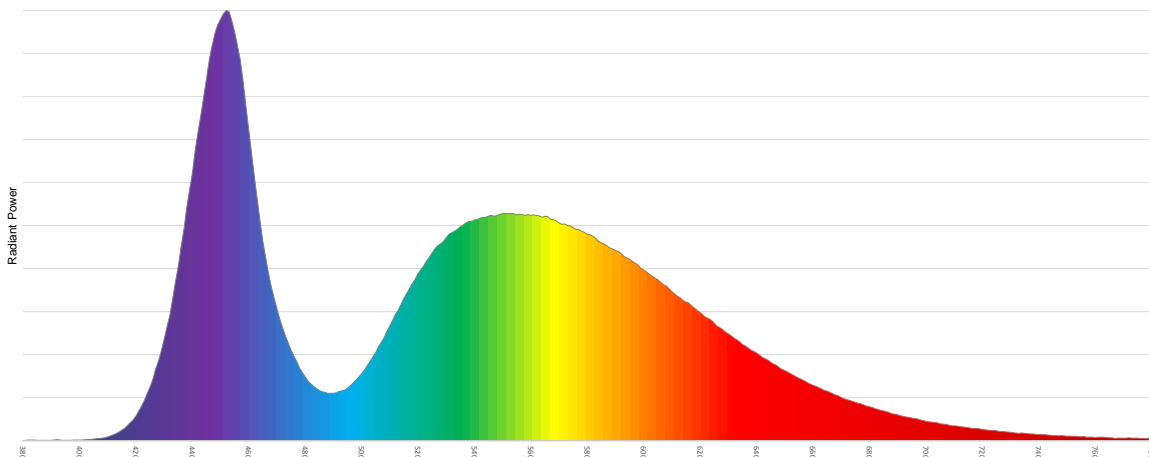
- Vertical - Horizontal

Catalog Number:	9025121795
Measured Output:	5814 lm
Measured Peak:	32038 cd
Consumed Power:	430 W
Efficacy:	13,5 Lm/Watt

Beam Angle (50%):	27,8°
Field Angle (10%):	30,9°
Cutoff Angle (3%):	31,9°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz

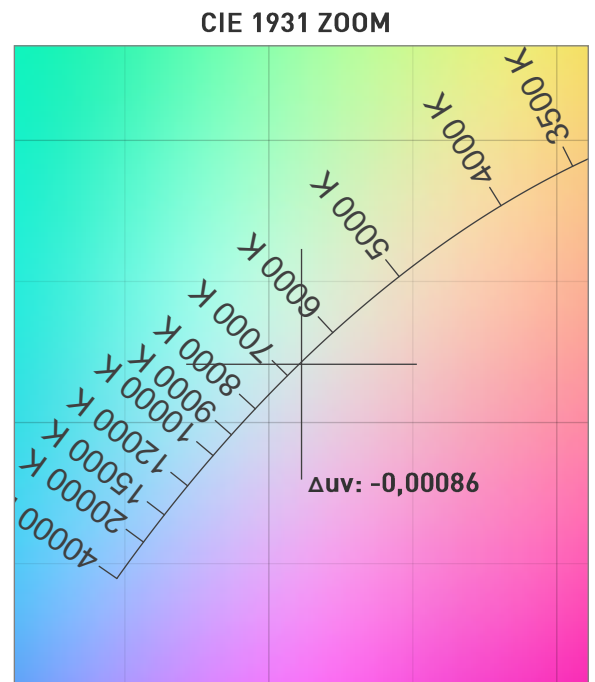
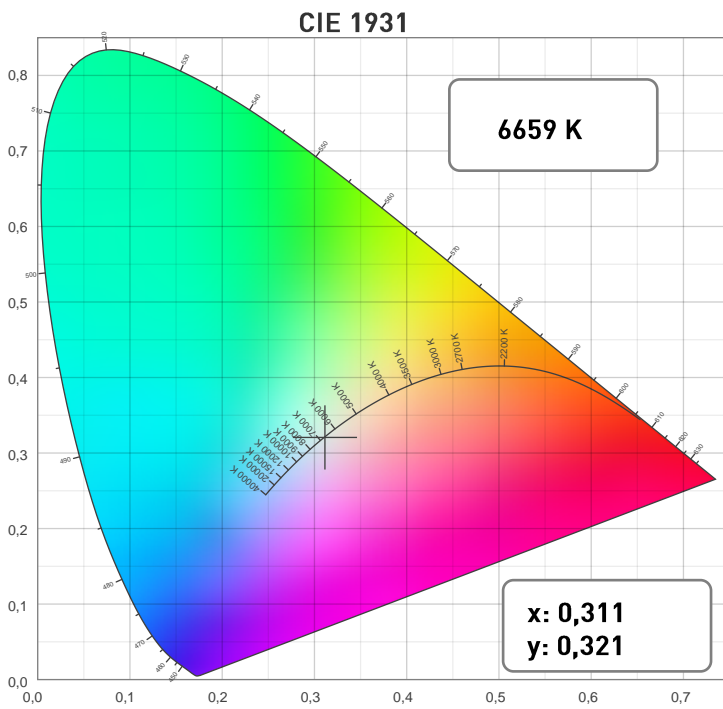
SPECTRAL DISTRIBUTION



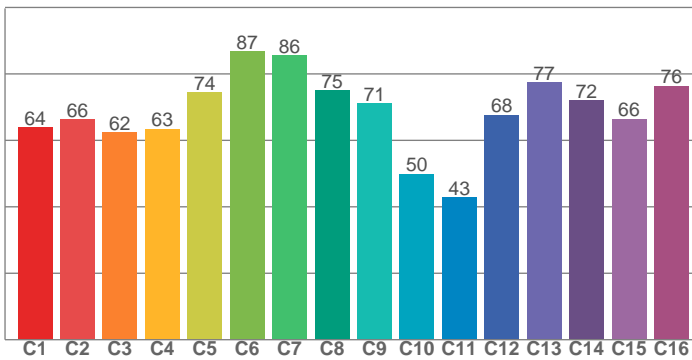
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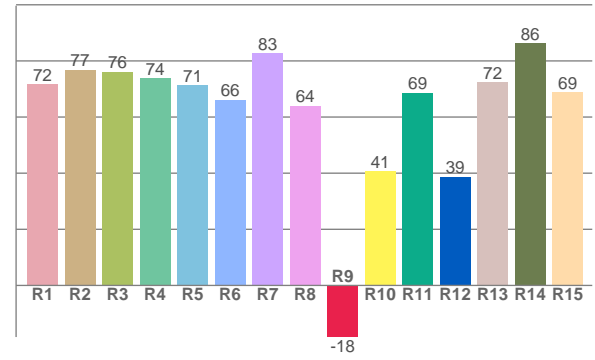
## CHROMATICITY



TM30: 68,6



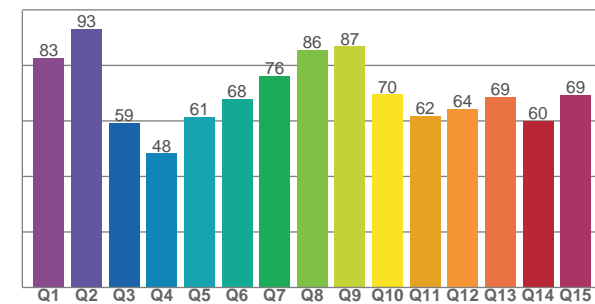
CRI: 72,9 (R1-R8)



### COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
6659 K	72,9	-18,4	68,6	93,1

CQS: 68,0



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	$\Delta uv$
96	68,0	0,311	0,321	0,200	0,309	-0,00086

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TM30

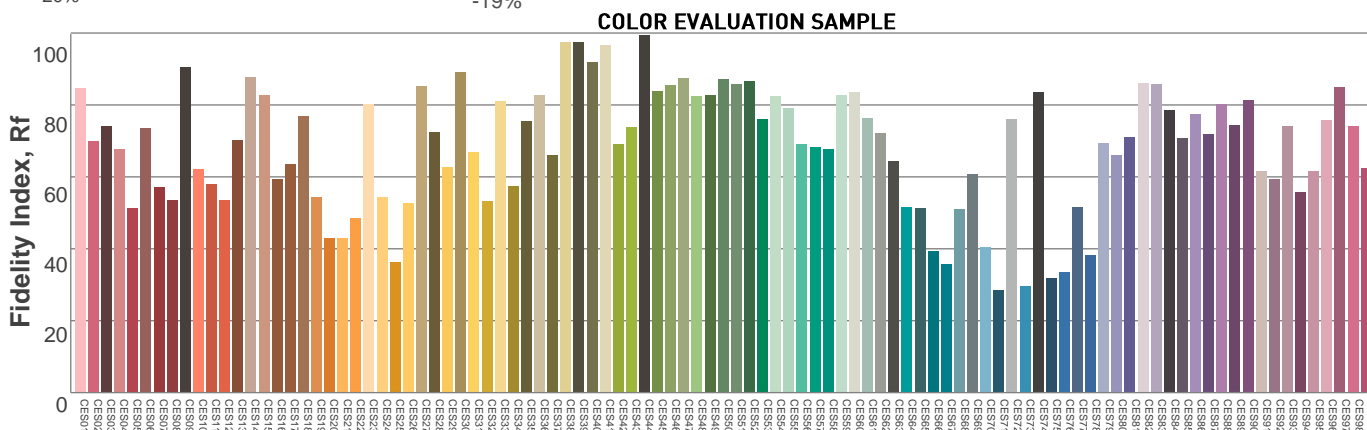
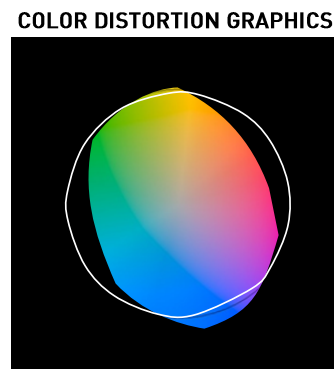
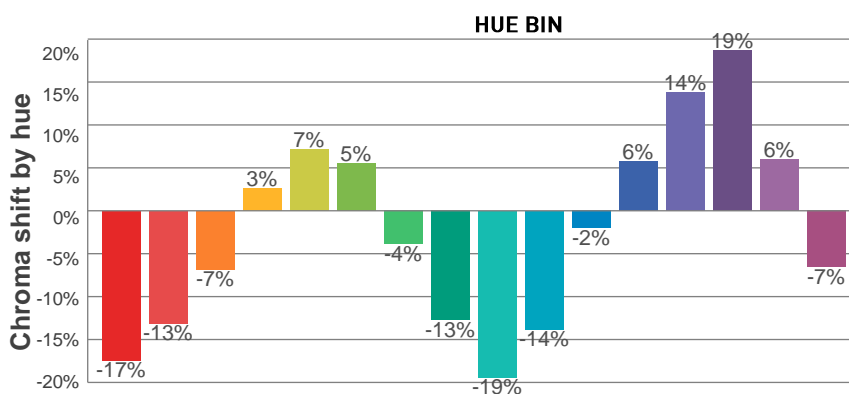
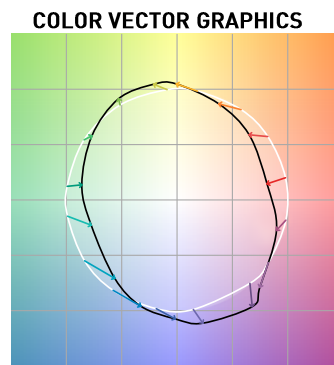
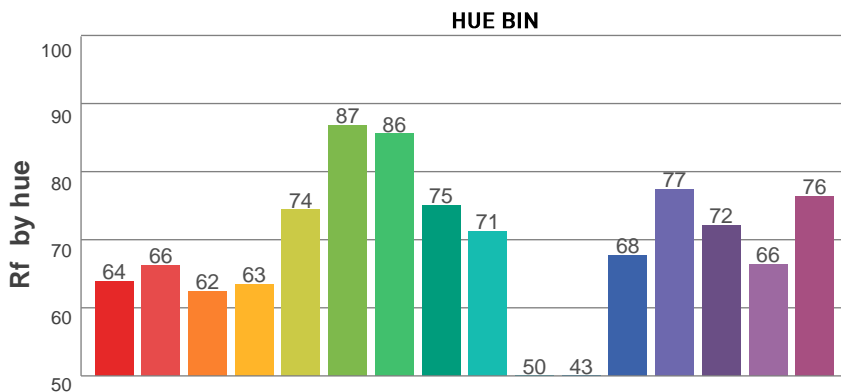
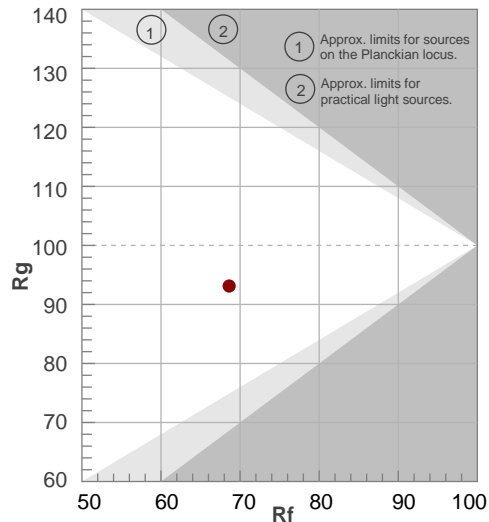
**Rf 68,6**

Fidelity index Rf

**Rg 93,1**

Gamut index Rg

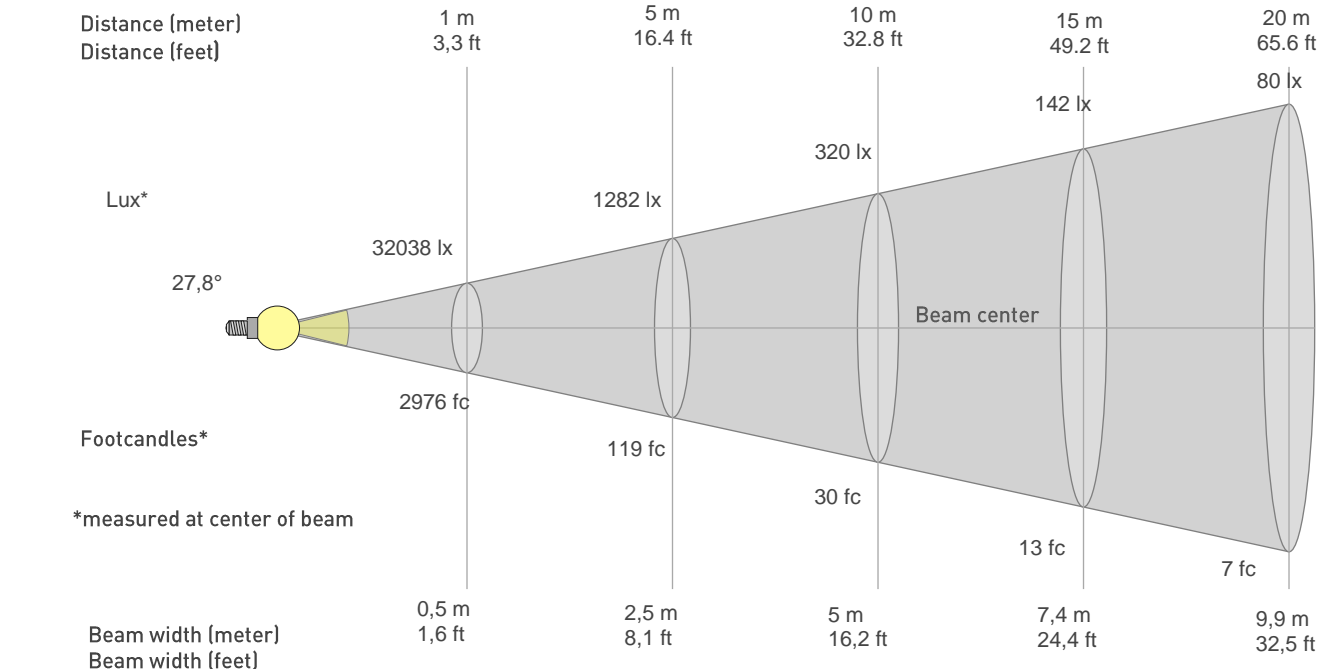
Hue Bin	R <sub>f</sub>	Graphic shifts (%)	
		Chroma	Hue
1	64	-17%	-2%
2	66	-13%	11%
3	62	-7%	20%
4	63	3%	20%
5	74	7%	11%
6	87	5%	-2%
7	86	-4%	-7%
8	75	-13%	-4%
9	71	-19%	12%
10	50	-14%	28%
11	43	-2%	29%
12	68	6%	19%
13	77	14%	6%
14	72	19%	-10%
15	66	6%	-23%
16	76	-7%	-11%



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## BEAM DETAILS

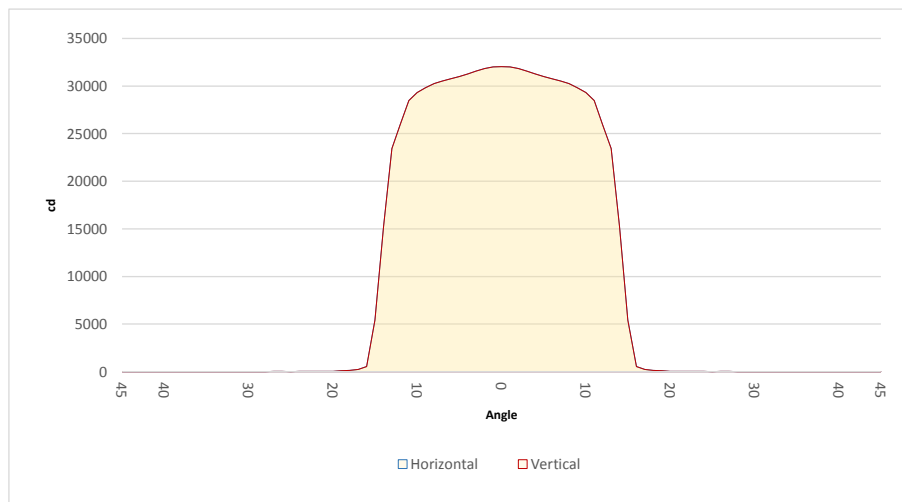


Beam width: = 0,5 \* distance  
 Illuminance: = 32038 / (distance<sup>2</sup>)

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
32038lx	8010lx	3560lx	2002lx	1282lx	890lx	654lx	501lx	396lx	320lx	265lx	222lx	190lx	163lx	142lx	125lx	111lx	99lx	89lx	80lx
2976,4fc	744,1fc	330,7fc	186fc	119,1fc	82,7fc	60,7fc	46,5fc	36,7fc	29,8fc	24,6fc	20,7fc	17,6fc	15,2fc	13,2fc	11,6fc	10,3fc	9,2fc	8,2fc	7,4fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
27,8°	30,9°	31,9°