

Photometric Report

ERA 400 – Narrow

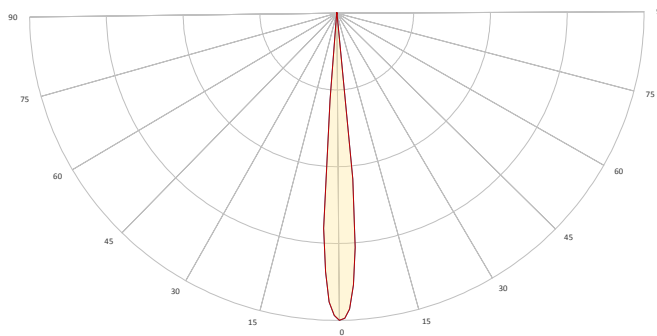
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	5900 lm
Light Engine Output:	14 klm
Efficacy:	12 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



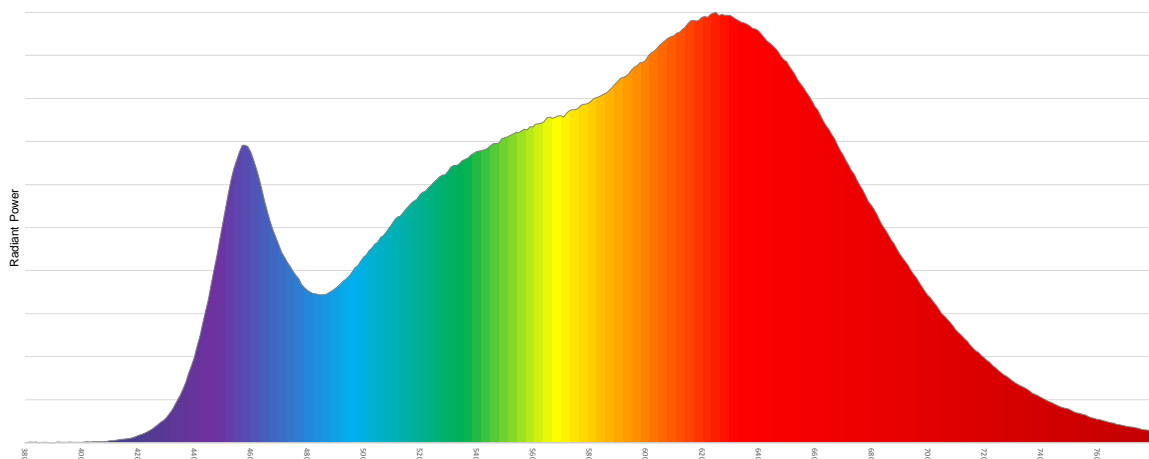
- Vertical - Horizontal

Catalog Number:	9025121795
Measured Output:	4975 lm
Measured Peak:	235434 cd
Consumed Power:	430 W
Efficacy:	11,6 Lm/Watt

Beam Angle (50%):	9,8°
Field Angle (10%):	10,8°
Cutoff Angle (3%):	11,5°

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

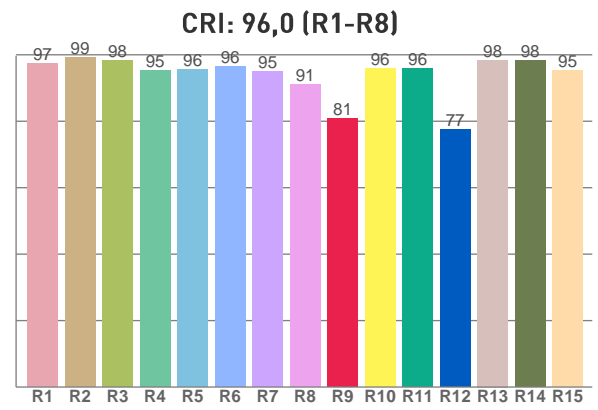
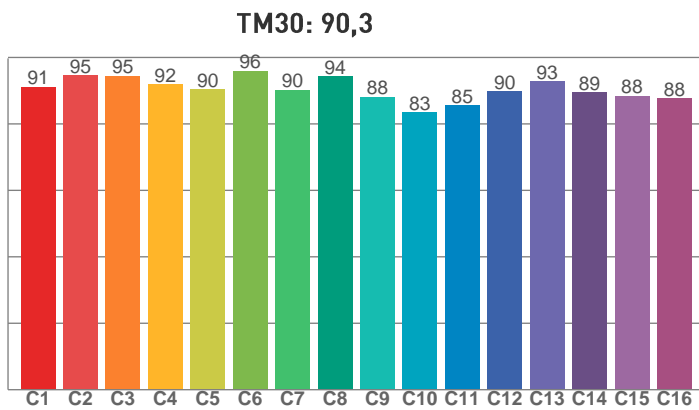
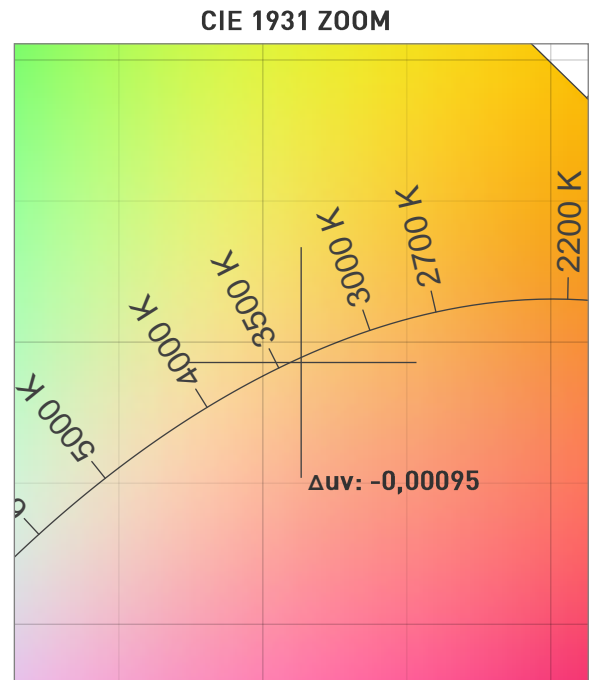
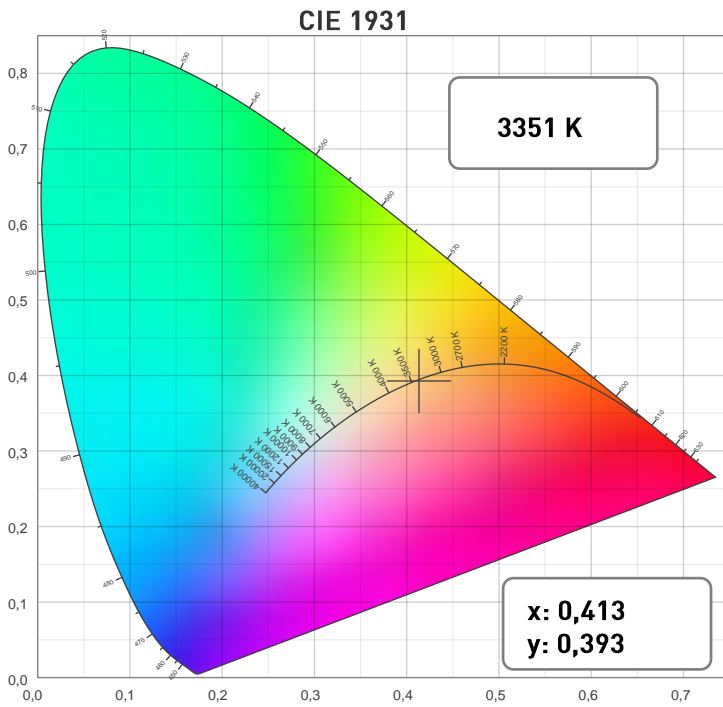
SPECTRAL DISTRIBUTION



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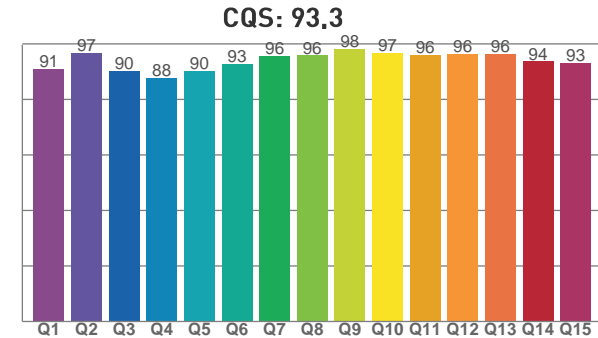
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CHROMATICITY



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
3351 K	96,0	80,7	90,3	98,3



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
96	93,3	0,413	0,393	0,240	0,342	-0,00095

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TM30

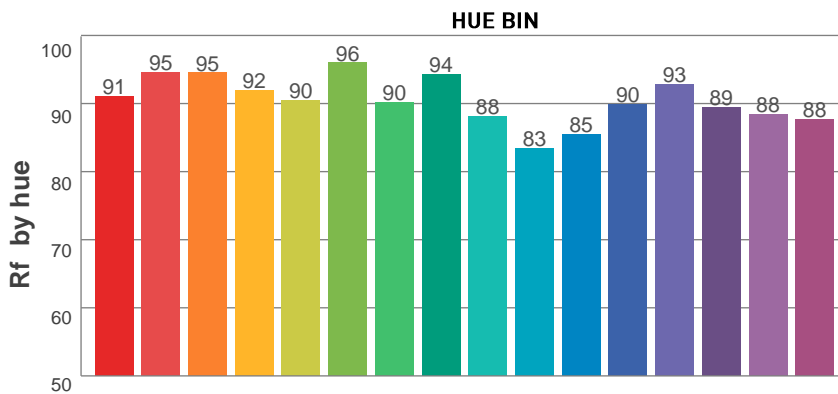
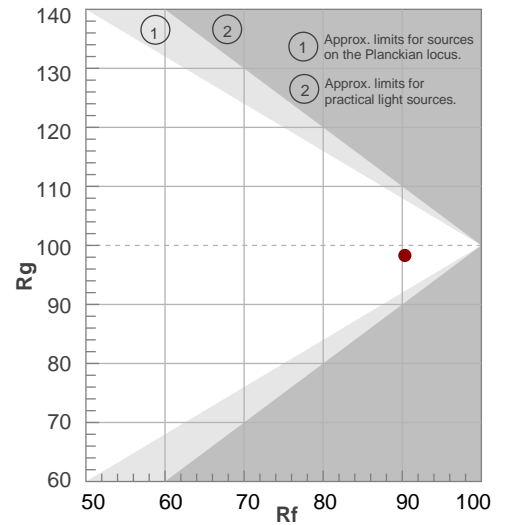
Rf 90,3

Fidelity index Rf

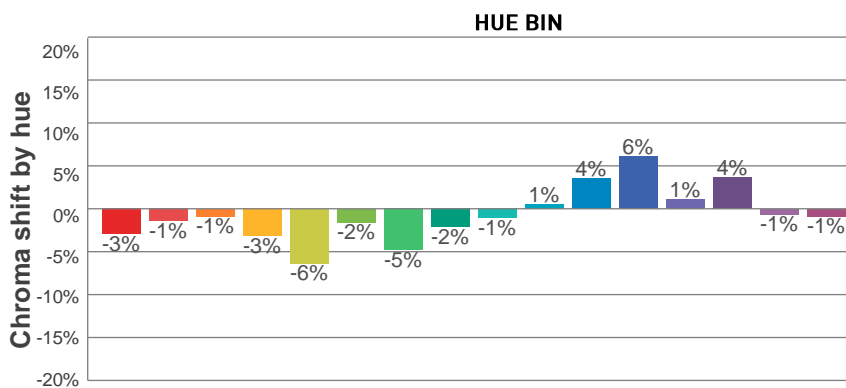
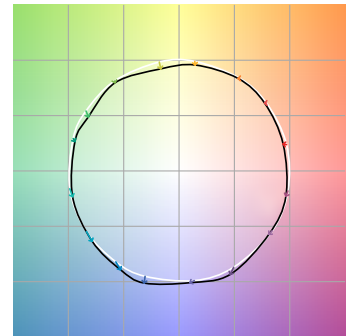
Rg 98,3

Gamut index Rg

Hue Bin	R _r	Graphic shifts (%)	
		Chroma	Hue
1	91	-3%	1%
2	95	-1%	1%
3	95	-1%	1%
4	92	-3%	-1%
5	90	-6%	0%
6	96	-2%	0%
7	90	-5%	3%
8	94	-2%	2%
9	88	-1%	7%
10	83	1%	10%
11	85	4%	7%
12	90	6%	0%
13	93	1%	-4%
14	89	4%	-6%
15	88	-1%	-4%
16	88	-1%	-5%



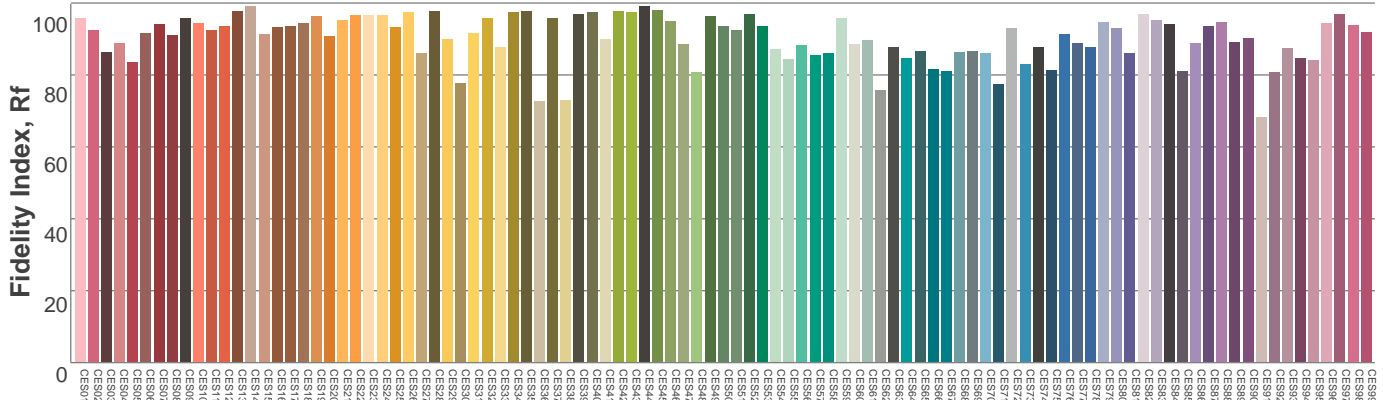
COLOR VECTOR GRAPHICS



COLOR DISTORTION GRAPHICS



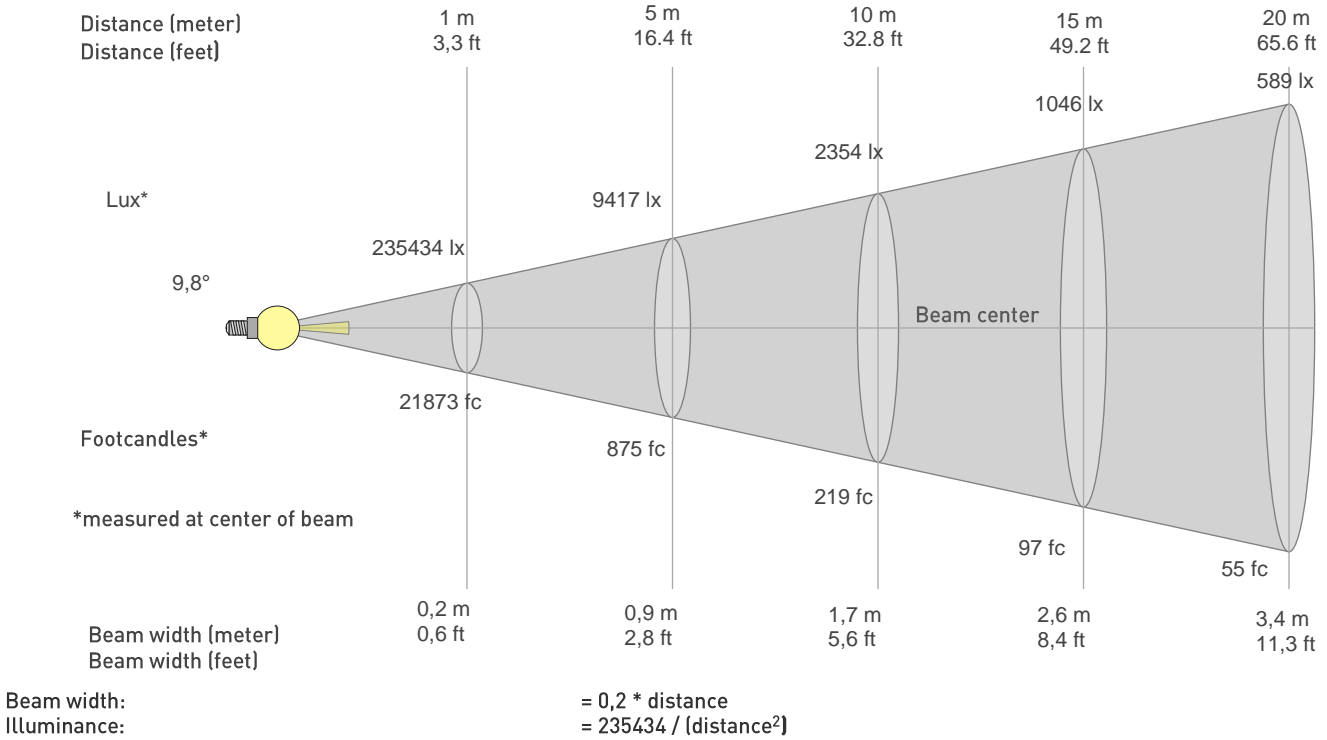
COLOR EVALUATION SAMPLE



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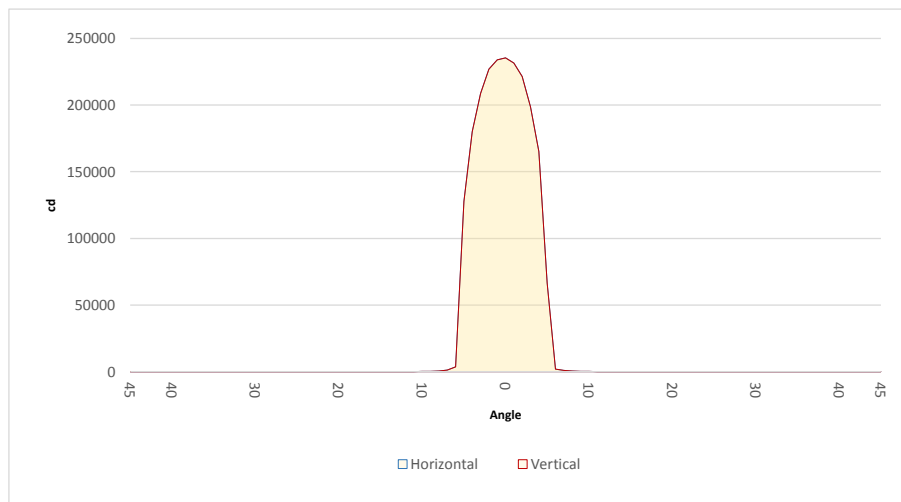
BEAM DETAILS



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
235434lx	58859lx	26159lx	14715lx	9417lx	6540lx	4805lx	3679lx	2907lx	2354lx	1946lx	1635lx	1393lx	1201lx	1046lx	920lx	815lx	727lx	652lx	589lx
21872,6fc	5468,1fc	2430,3fc	1367fc	874,9fc	607,6fc	446,4fc	341,8fc	270fc	218,7fc	180,8fc	151,9fc	129,4fc	111,6fc	97,2fc	85,4fc	75,7fc	67,5fc	60,6fc	54,7fc



BEAM ANGLE 50%	FIELD ANGLE 10%	CUTOFF ANGLE 3%
9,8°	10,8°	11,5°