

Photometric Report

ERA 800 – Narrow

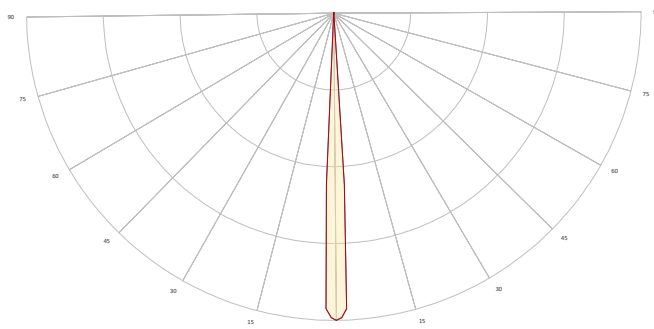
MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

GENERAL SPECIFICATIONS

Total Fixture Output:	35000 lm
Light Engine Output:	70 klm
Efficacy:	31 Lumen/Watt
Lens Option:	N/A
Zoomrange:	6-49°
CRI:	70
CQS:	67
TM-30 Rf:	65
TM-30 Rg:	93
TLCI:	44
Color Temperature:	6900 K



MEASUREMENT



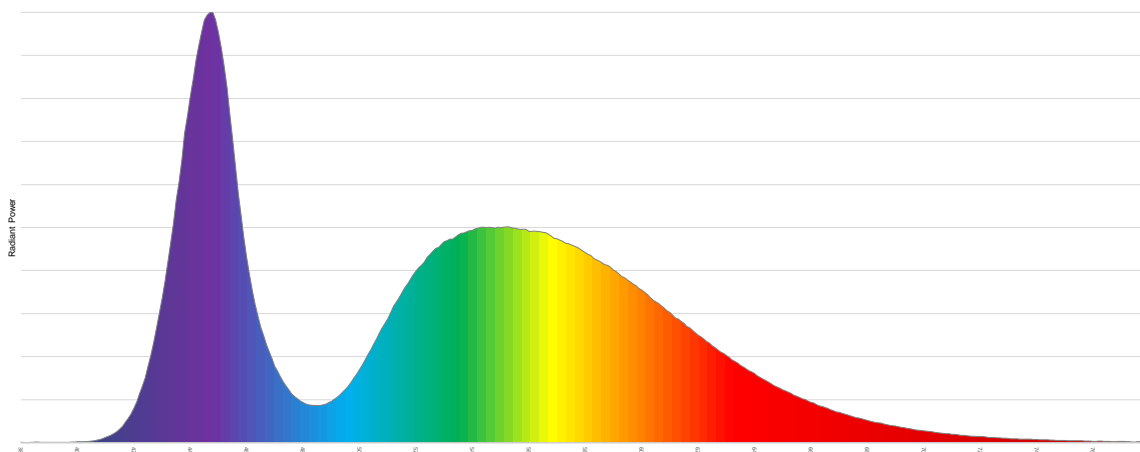
- Vertical - Horizontal

Catalog Number:	9025122052
Measured Output:	16700 lm
Measured Peak:	676882 cd
Consumed Power:	1161.5 W
Efficacy:	31.4 Lm/Watt

Beam Angle (50%):	6.1°
Field Angle (10%):	7°
Cutoff Angle (3%):	7.6°

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

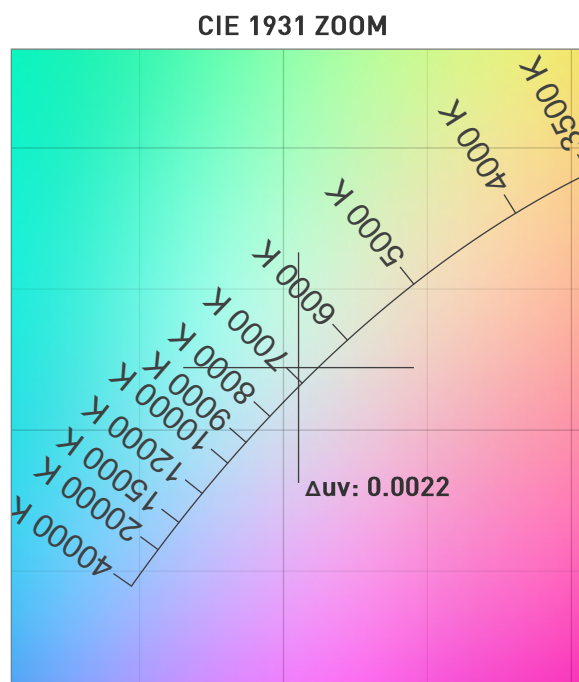
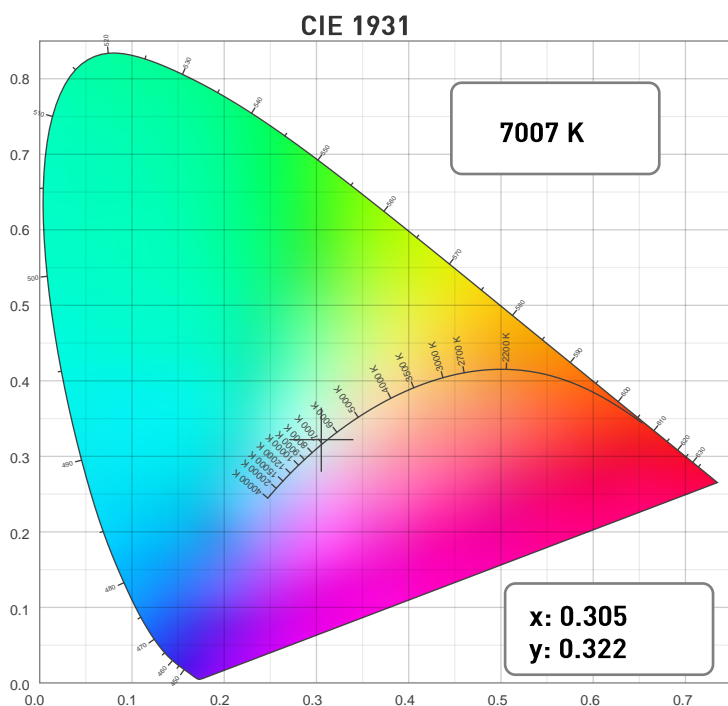
SPECTRAL DISTRIBUTION



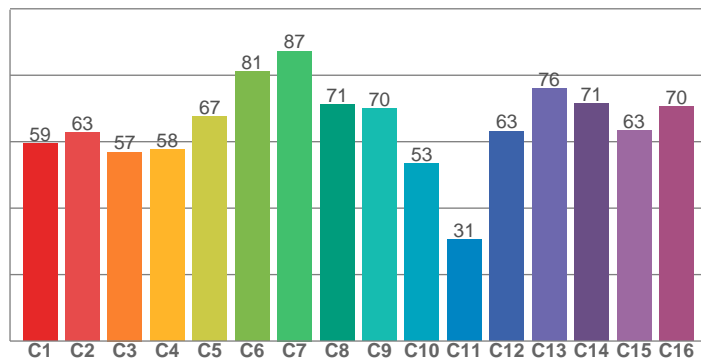
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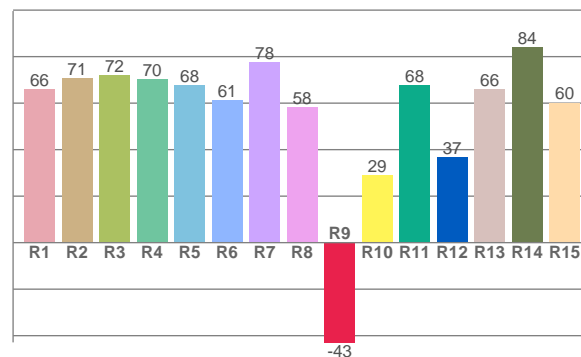
CHROMATICITY



TM30: 64.9



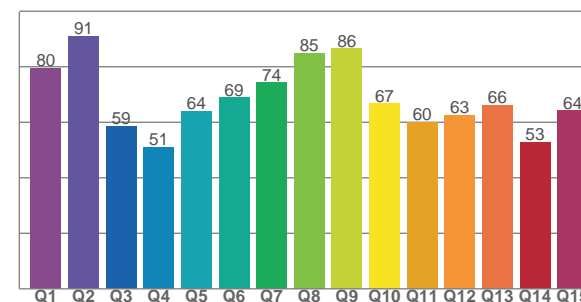
CRI: 68.0 (R1-R8)



COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
7007 K	68.0	-42.9	64.9	92.6

CQS: 66.6



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
44	66.6	0.305	0.322	0.195	0.309	0.0022

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TM30

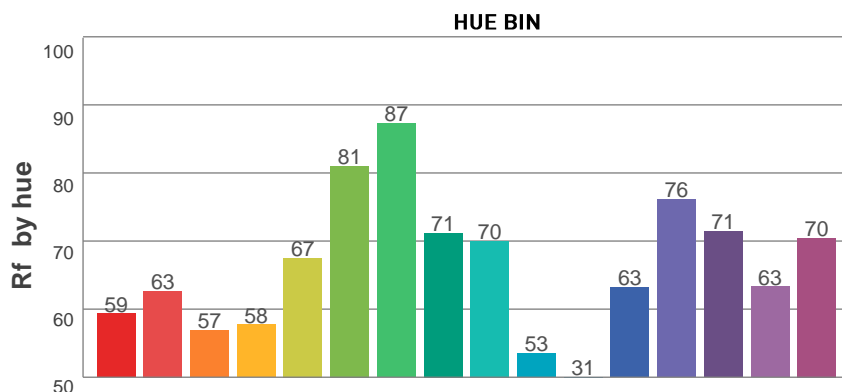
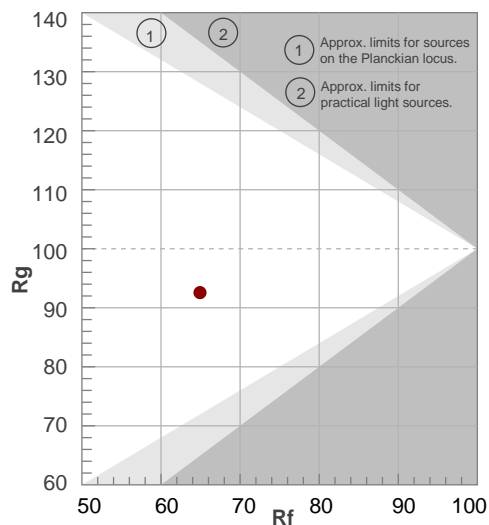
Rf 64.9

Fidelity index Rf

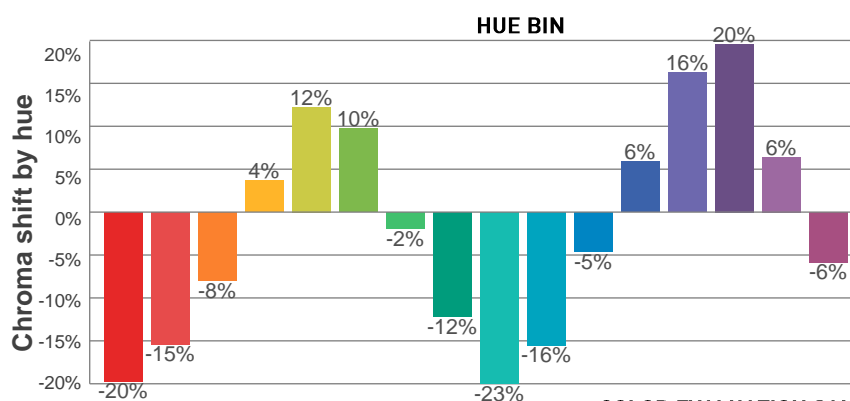
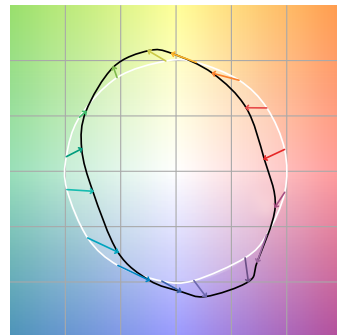
Rg 92.6

Gamut index Rg

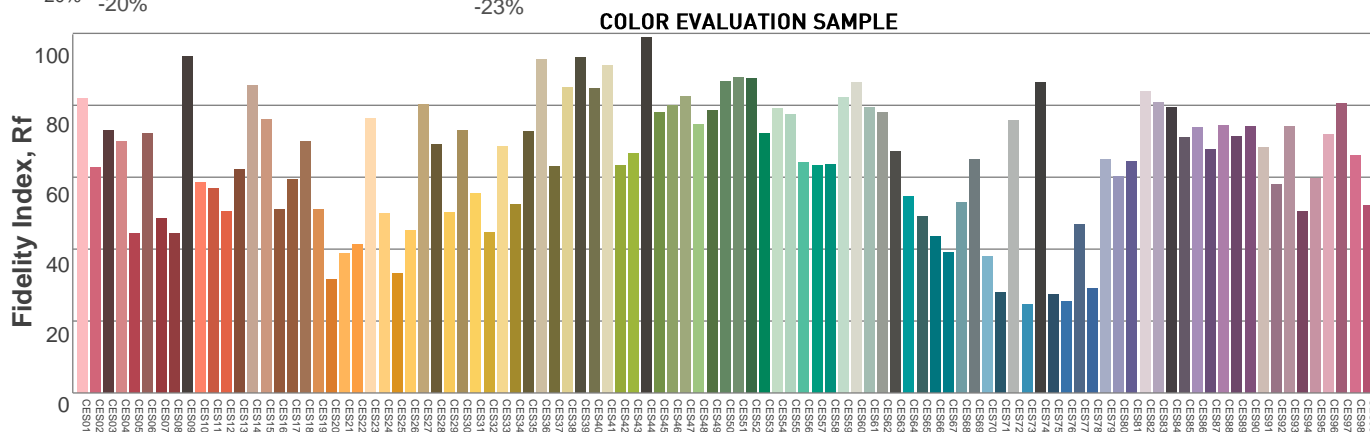
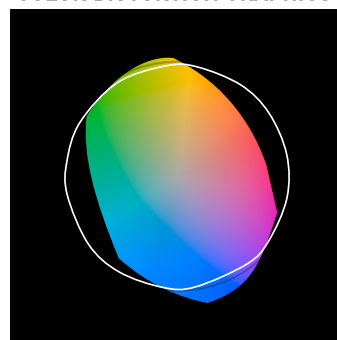
Hue Bin	R _f	Graphic shifts (%)	
		Chroma	Hue
1	59	-20%	-5%
2	63	-15%	11%
3	57	-8%	23%
4	58	4%	23%
5	67	12%	14%
6	81	10%	-2%
7	87	-2%	-8%
8	71	-12%	-10%
9	70	-23%	6%
10	53	-16%	26%
11	31	-5%	31%
12	63	6%	18%
13	76	16%	8%
14	71	20%	-10%
15	63	6%	-25%
16	70	-6%	-15%



COLOR VECTOR GRAPHICS



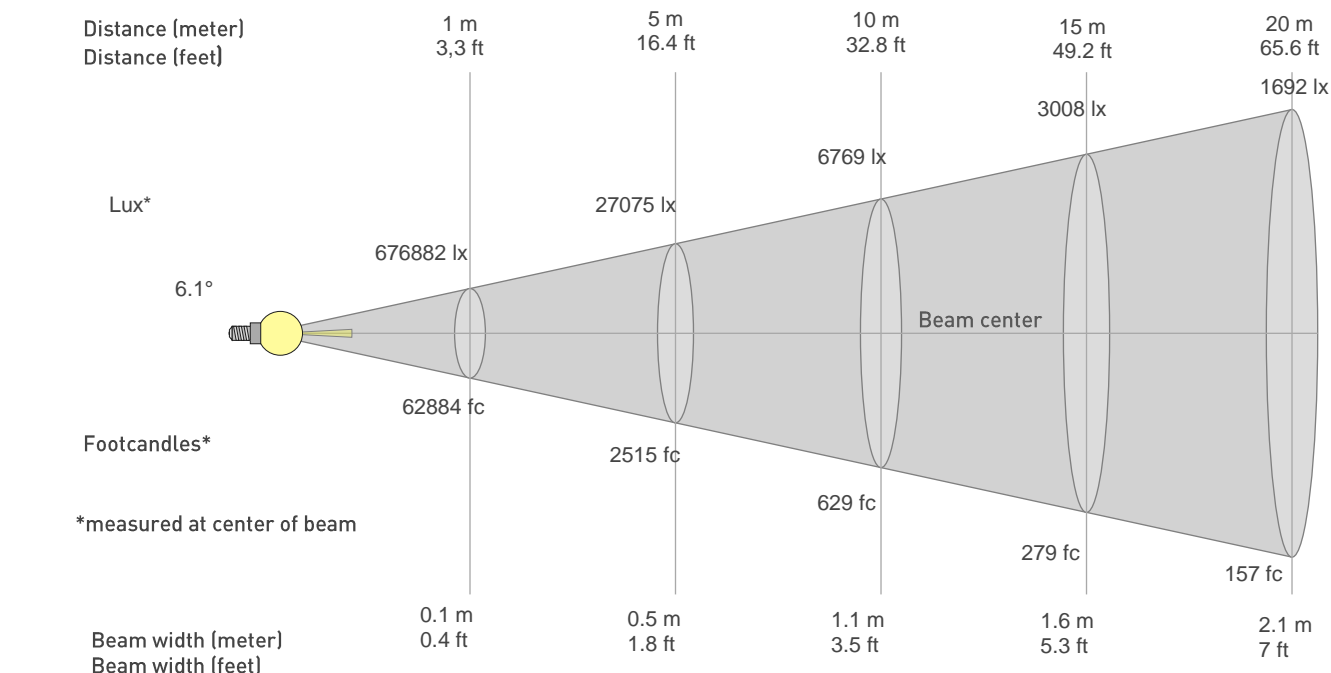
COLOR DISTORTION GRAPHICS



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BEAM DETAILS

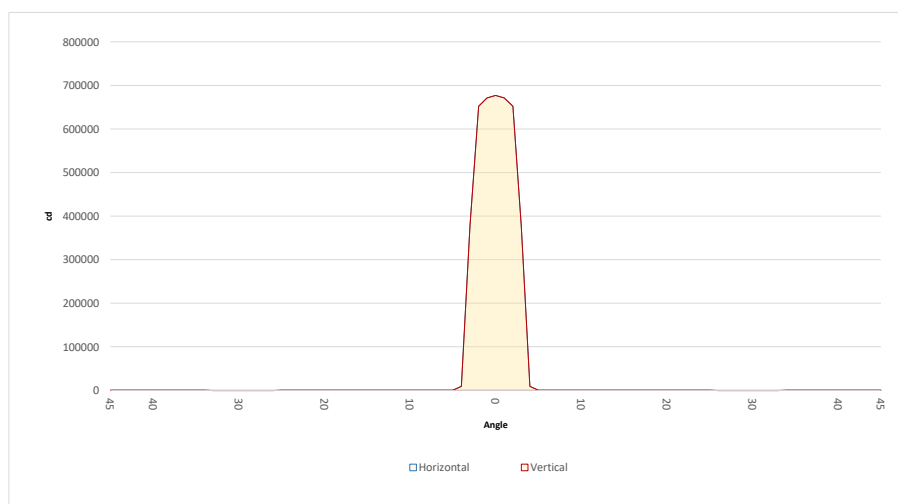


Beam width: = 0.1 * distance
Illuminance: = 676882 / (distance²)

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
676882lx	169220lx	75209lx	42305lx	27075lx	18802lx	13814lx	10576lx	8357lx	6769lx	5594lx	4701lx	4005lx	3453lx	3008lx	2644lx	2342lx	2089lx	1875lx	1692lx
62884.4fc	15721.1fc	6987.2fc	3930.3fc	2515.4fc	1746.8fc	1283.4fc	982.6fc	776.4fc	628.8fc	519.7fc	436.7fc	372.1fc	320.8fc	279.5fc	245.6fc	217.6fc	194.1fc	174.2fc	157.2fc



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