

# Photometric Report

ELP Manet 8f - High Power Mode 3000K – Medium

MARTIN PROFESSIONAL R&D OPTICAL LABORATORY

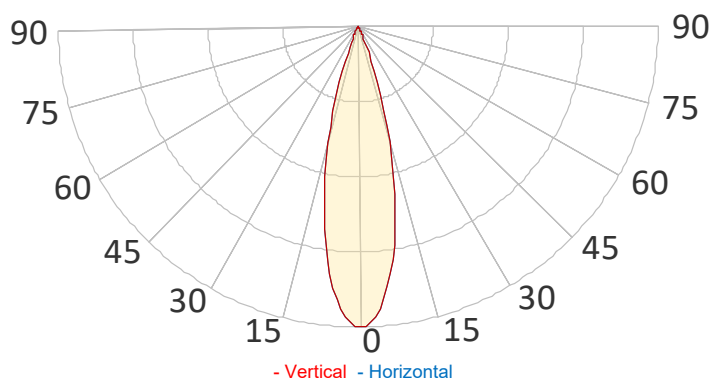
## GENERAL SPECIFICATIONS

Total Fixture Output:	8300 lm
Light Engine Output:	12500 lm
Efficacy:	22.4 lm/W
Lens Option:	N/A
Zoom Range:	9 - 50°
CRI:	87 (+/-1)
CQS:	87 (+/-1)
TM-30 Rf:	86 (+/-1)
TM-30 Rg:	107 (+/-1)
TLCI:	75 (+/-1)
Color Temperature:	3000K (+/-250K)



## SAMPLE MEASUREMENT

POLAR PLOT

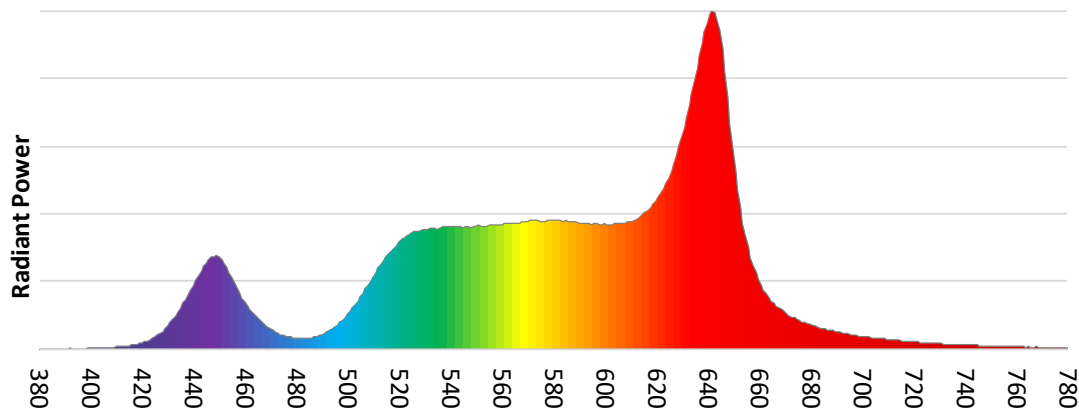


Catalog Number:	MAR-90800021
Measured Output:	8387 lm
Measured Peak:	36335 cd
Consumed Power:	370 W
Efficacy:	22.7 lm/W

Beam Angle (50%):	26.4°
Field Angle (10%):	43.4°
Cut-off Angle (3%):	56.4°

Measurement Condition:	
Ambient Temperature:	25° +/- 5° C
AC Supply:	230V/50Hz
Fan Mode:	Regulated High
Fixture Warm-up Time:	30 minutes

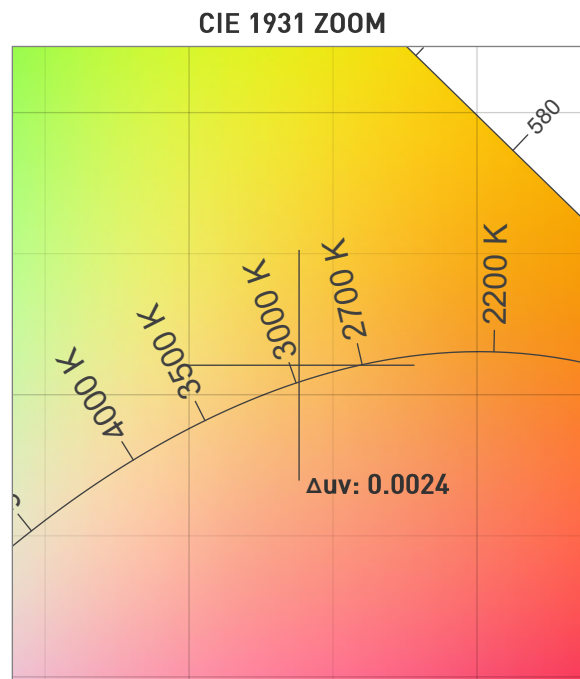
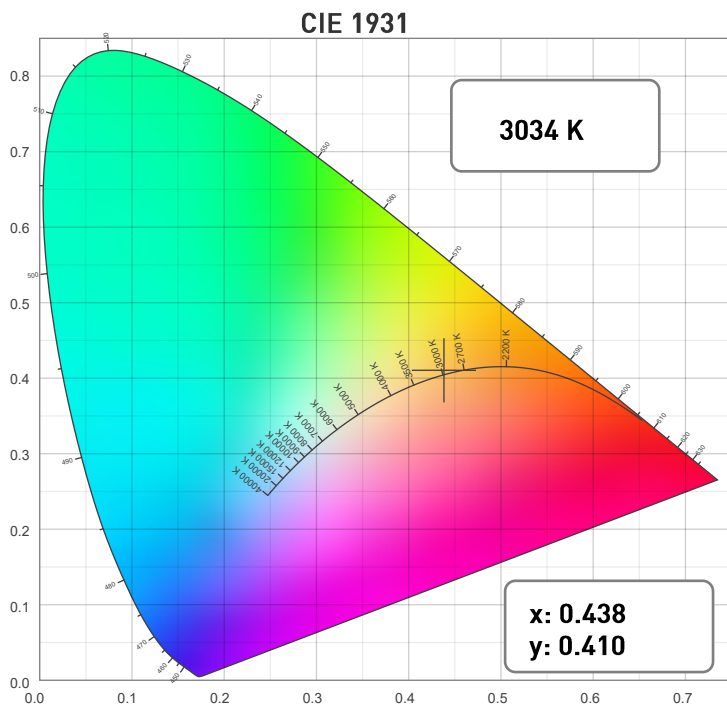
SPECTRAL DISTRIBUTION



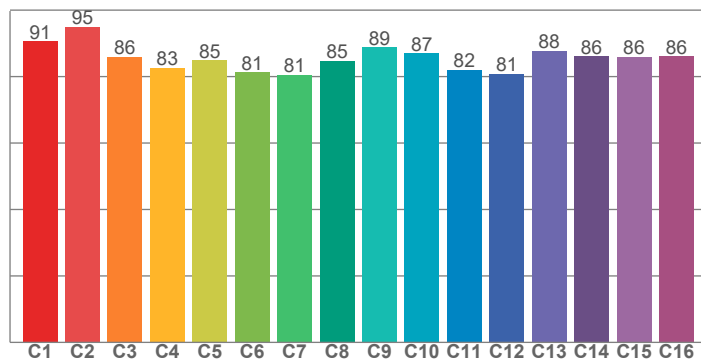
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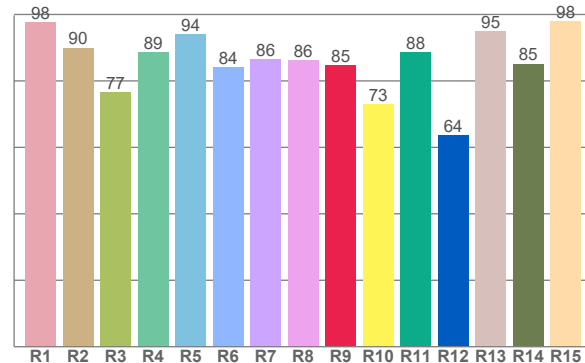
## CHROMATICITY



TM30: 86.1



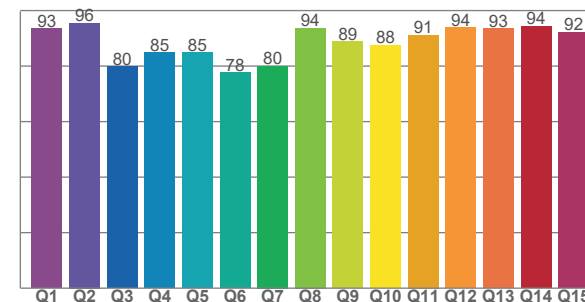
CRI: 87.9 (R1-R8)



## COLOR PARAMETERS

Color Temperature	Color Rendering Index	Red Component	Color Fidelity	Color Gamut
CCT	CRI	CRI R9	TM30 Rf	TM30 Rg
3034 K	87.9	84.6	86.1	107.8

CQS: 87.2



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
75	87.2	0.438	0.410	0.249	0.349	0.0024

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TM30

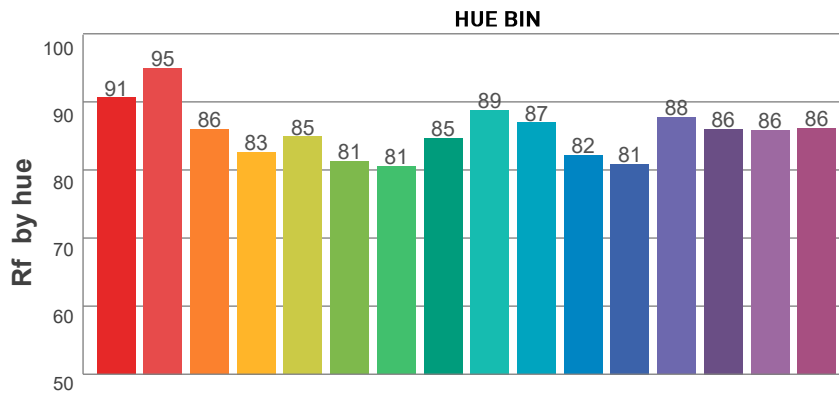
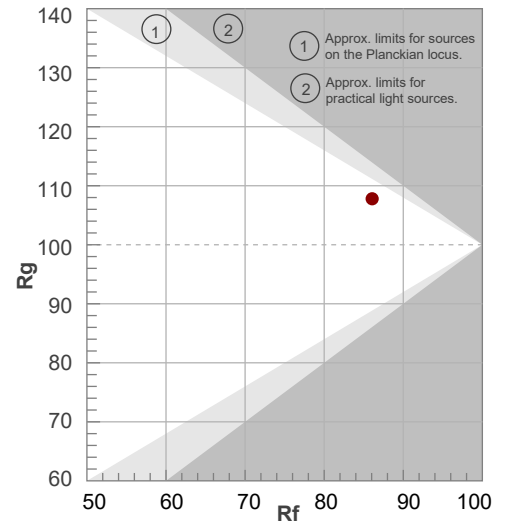
Rf 86.1

Fidelity index Rf

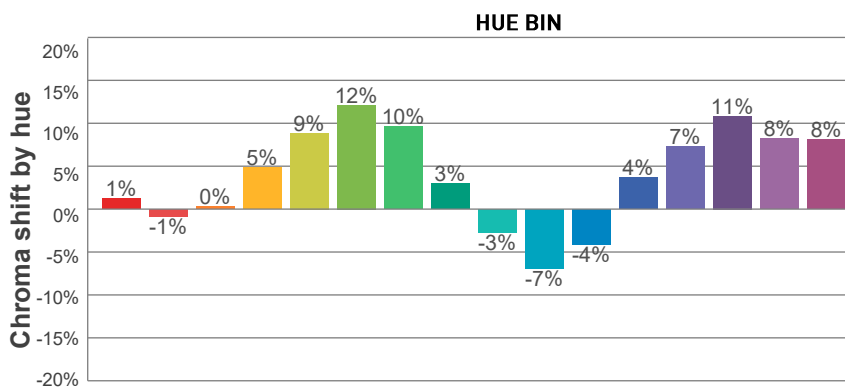
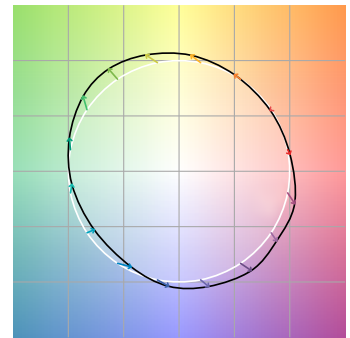
Rg 107.8

Gamut index Rg

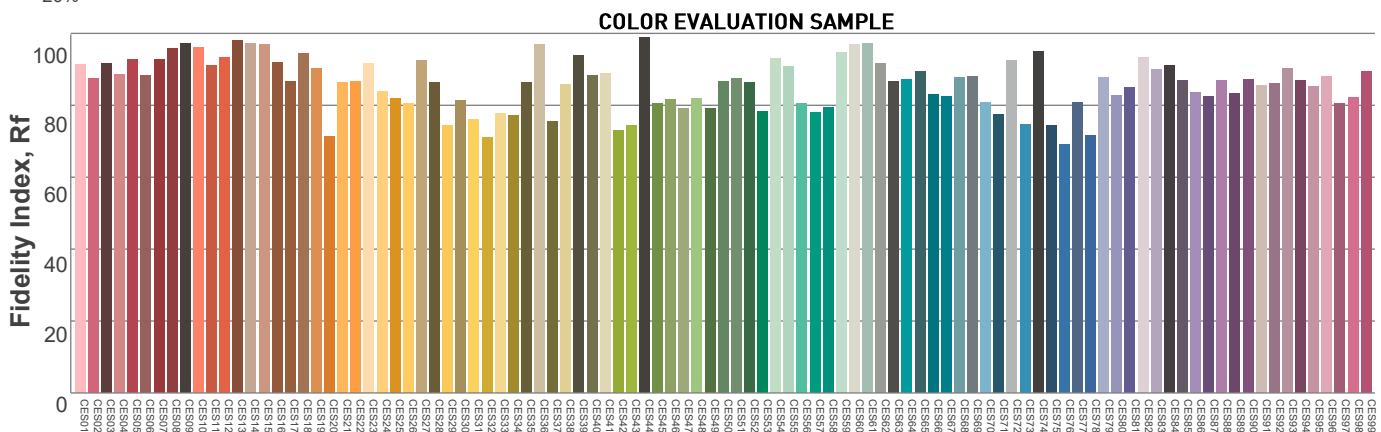
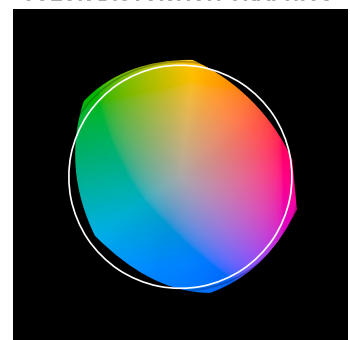
Hue Bin	Rf	Graphic shifts (%)	
		Chroma	Hue
1	91	1%	-4%
2	95	-1%	0%
3	86	0%	7%
4	83	5%	10%
5	85	9%	9%
6	81	12%	2%
7	81	10%	-8%
8	85	3%	-10%
9	89	-3%	-7%
10	87	-7%	1%
11	82	-4%	12%
12	81	4%	11%
13	88	7%	6%
14	86	11%	4%
15	86	8%	-3%
16	86	8%	-8%



COLOR VECTOR GRAPHICS



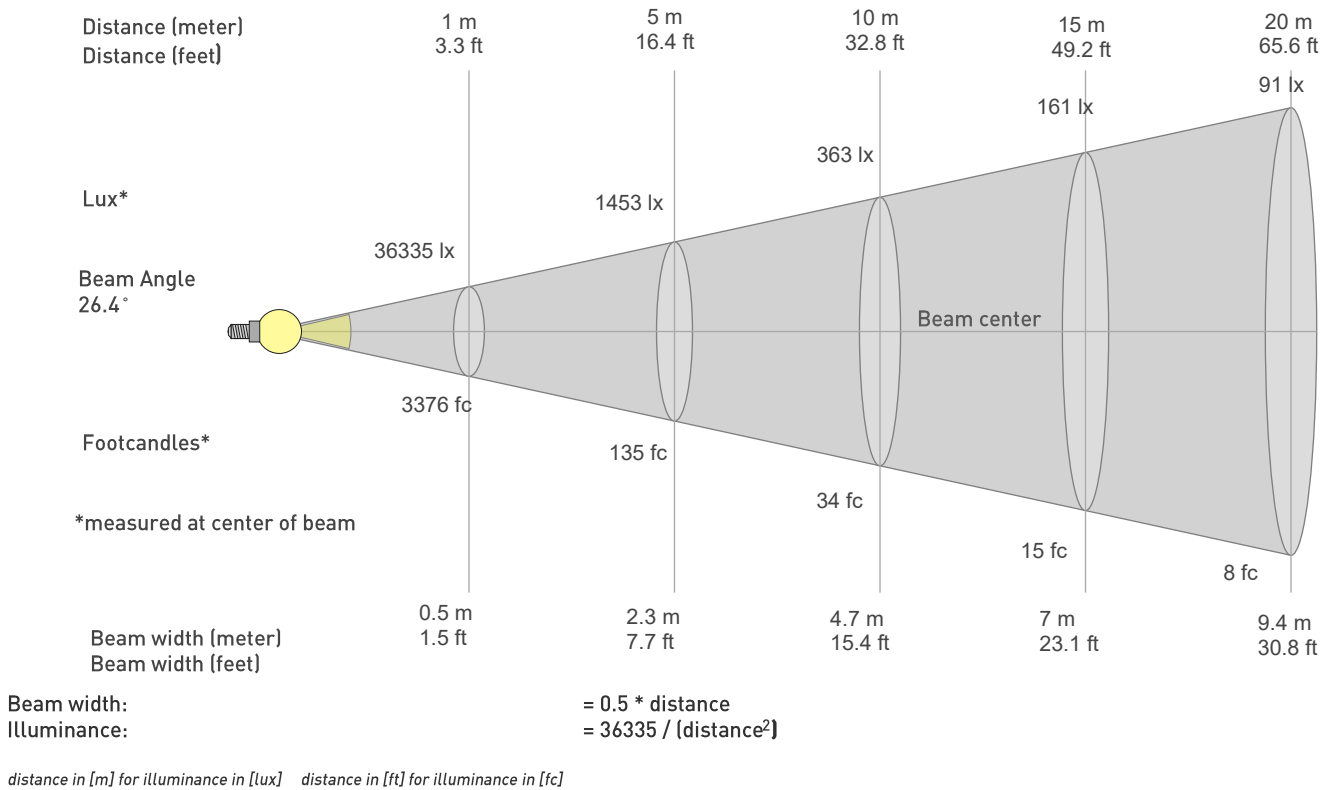
COLOR DISTORTION GRAPHICS



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## BEAM DETAILS



## 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
36335lx	9084lx	4037lx	2271lx	1453lx	1009lx	742lx	568lx	449lx	363lx	300lx	252lx	215lx	185lx	161lx	142lx	126lx	112lx	101lx	91lx
3375.6fc	843.9fc	375.1fc	211fc	135fc	93.8fc	68.9fc	52.7fc	41.7fc	33.8fc	27.9fc	23.4fc	20fc	17.2fc	15fc	13.2fc	11.7fc	10.4fc	9.4fc	8.4fc

